restart

$L := 110;$

$$110 \quad (1)$$

$B := 15.5;$

$$15.5 \quad (2)$$

$d := 5.64;$

$$5.64 \quad (3)$$

$Cwl := 0.739;$

$$0.739 \quad (4)$$

$Cv := 0.715;$

$$0.715 \quad (5)$$

$AA[0, 0, 0] := 1.8597174;$

$$1.8597174 \quad (6)$$

$AA[0, 1, 0] := 7.2444894;$

$$7.2444894 \quad (7)$$

$AA[0, 2, 0] := -7.049486;$

$$-7.049486 \quad (8)$$

$AA[0, 3, 0] := 1.917179;$

$$1.917179 \quad (9)$$

$AA[0, 0, 1] := -3.7882475;$

$$-3.7882475 \quad (10)$$

$AA[0, 1, 1] := -8.9758867;$

$$-8.9758867 \quad (11)$$

$AA[0, 2, 1] := 11.998156;$

$$11.998156 \quad (12)$$

$AA[0, 3, 1] := -3, 550783;$

$$-3, 550783 \quad (13)$$

$AA[0, 0, 2] := 2, 5604382;$

$$2, 5604382$$

$AA[0, 1, 2] := 5, 698404;$

$$5, 698404 \quad (15)$$

$AA[0, 2, 2] := -7, 862511;$

$$-7, 862511 \quad (16)$$

$AA[0, 3, 2] := 2, 363724;$

$$2, 363724 \quad (17)$$

$AA[1, 0, 0] := 2, 9195841;$

$$2, 9195841 \quad (18)$$

$AA[1, 1, 0] := -45, 904397;$

$$-45, 904397 \quad (19)$$

$AA[1, 2, 0] := 38, 793059;$

$$38, 793059 \quad (20)$$

$AA[1, 3, 0] := -9, 9489369;$

$$-9, 9489369 \quad (21)$$

$AA[1, 0, 1] := -40, 228419;$

$$-40, 228419 \quad (22)$$

$AA[1, 1, 1] := 137, 76041;$

$$137, 76041 \quad (23)$$

$AA[1, 2, 1] := -116, 15553;$

$$-116, 15553 \quad (24)$$

$AA[1, 3, 1] := 29, 697468;$

$$29, 697468 \quad (25)$$

$AA[1, 0, 2] := 42, 00179;$

$$42, 179 \quad (26)$$

$AA[1, 1, 2] := -128, 88256;$

$$-128, 88256 \quad (27)$$

$AA[1, 2, 2] := 107, 47307;$

$$107, 47307 \quad (28)$$

$AA[1, 3, 2] := -27, 496491;$

$$-27, 496491 \quad (29)$$

$AA[2, 0, 0] := -13, 42333;$

$$-13, 42333 \quad (30)$$

$AA[2, 1, 0] := 126, 39339;$

$$126, 39339 \quad (31)$$

$AA[2, 2, 0] := -103, 7687;$

$$-103, 7687 \quad (32)$$

$AA[2, 3, 0] := 25, 682292;$

$$25, 682292 \quad (33)$$

$AA[2, 0, 1] := 130, 12046;$

$$130, 12046 \quad (34)$$

$AA[2, 1, 1] := -456, 9049;$

$$-456, 9049 \quad (35)$$

$AA[2, 2, 1] := 382, 87345;$

$$382, 87345 \quad (36)$$

$AA[2, 3, 1] := -96, 21766;$

$$-96, 21766 \quad (37)$$

$AA[2, 0, 2] := -121, 3732;$

$$-121, 3732 \quad (38)$$

$AA[2, 1, 2] := 408, 808;$

$$408, 808 \quad (39)$$

$AA[2, 2, 2] := -347, 8909;$

$$-347, 8909 \quad (40)$$

$AA[2, 3, 2] := 88, 947348;$

$$88, 947348 \quad (41)$$

$AA[3, 0, 0] := 14, 659253;$

$$14, 659253 \quad (42)$$

$AA[3, 1, 0] := -132, 59886;$

$$-132, 59886 \quad (43)$$

$AA[3, 2, 0] := 109, 00775;$

$$109, 775 \quad (44)$$

$AA[3, 3, 0] := -26, 639866;$

$$-26, 639866 \quad (45)$$

$AA[3, 0, 1] := -137, 15772;$

$$-137, 15772 \quad (46)$$

$AA[3, 1, 1] := 505, 04767;$

$$505, 4767 \quad (47)$$

$AA[3, 2, 1] := -429, 88651;$

$$-429, 88651 \quad (48)$$

$AA[3, 3, 1] := 108, 00859;$

$$108, 859 \quad (49)$$

$AA[3, 1, 2] := -440, 31061;$

$$-440, 31061$$

$AA[3, 0, 2] := 123, 00714;$

$$123, 714 \quad (51)$$

$AA[3, 3, 2] := -98, 531913;$

$$-98, 531913$$

$AA[3, 2, 2] := 382, 87548;$

$$382, 87548 \quad (53)$$

$AA[4, 2, 0] := -36, 847937;$

$$-36, 847937$$

$AA[4, 3, 0] := 8, 8979344;$

$$8, 8979344$$

$AA[4, 1, 0] := 44, 769144 ;$

$$44, 769144$$

$AA[4, 0, 0] := -4, 3115266 ;$

$$-4, 3115266 \quad (57)$$

$AA[4, 0, 1] := 46, 406083;$

$$46, 406083 \quad (58)$$

$AA[4, 1, 1] := -178, 01571;$

$$-178, 1571 \quad (59)$$

$AA[4, 2, 1] := 253, 01375;$

$$253, 1375 \quad (60)$$

$AA[4, 3, 1] := -38, 486334;$

$$-38, 486334 \quad (61)$$

$AA[4, 0, 2] := -41, 364796;$

$$-41, 364796 \quad (62)$$

$AA[4, 1, 2] := 154, 57681;$

$$154, 57681 \quad (63)$$

$AA[4, 2, 2] := -136, 41623;$

$$-136, 41623 \quad (64)$$

$AA[4, 3, 2] := 35, 243603;$

$$B1 := x \to B \cdot \left(1 - \left(\frac{2 \cdot x}{L}\right)^{\left(\frac{Cwl}{1 - Cwl}\right)}\right);$$

$$x \to B\left(1 - \left(\frac{2\,x}{L}\right)^{\frac{Cwl}{1 - Cwl}}\right) \tag{65}$$

$$y := x \to \frac{B1}{2 \cdot d};$$

$$x \to \frac{1}{2}\,\frac{B1}{d} \tag{66}$$

$z := Cv;$

$$0.715 \tag{67}$$

$$\lambda I_{33} := (\lambda, x) \to \sum_{i=0}^{4} \sum_{j=0}^{3} \sum_{k=0}^{2} \left(AA[i, j, k] \cdot \left(\frac{\pi \cdot B1(x)}{\lambda}\right)^{i} \cdot \left(\frac{B1(x)}{2 \cdot d}\right)^{j} \cdot z^{k}\right);$$

$$(\lambda, x) \to \sum_{i=0}^{4} \left(\sum_{j=0}^{3} \left(\sum_{k=0}^{2} AA_{i, j, k} \left(\frac{\pi\,B1(x)}{\lambda}\right)^{i} \left(\frac{1}{2}\,\frac{B1(x)}{d}\right)^{j} z^{k}\right)\right) \tag{68}$$

$\lambda I_{33}(300, 0);$

$$8.148832893 + (-6.089418205, 1.212607706\ 10^{7}) \tag{69}$$

at 5 digits $\longrightarrow$

$$8.1488 + (-6.0894, 1.2126\ 10^{7}) \tag{70}$$