

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P285758

Luminaire Tested: **PRV-XL-C150-D-UNV-T2-BZ-7050**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-5)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 2/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-C150-D-UNV-T2-BZ-7050
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42100 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

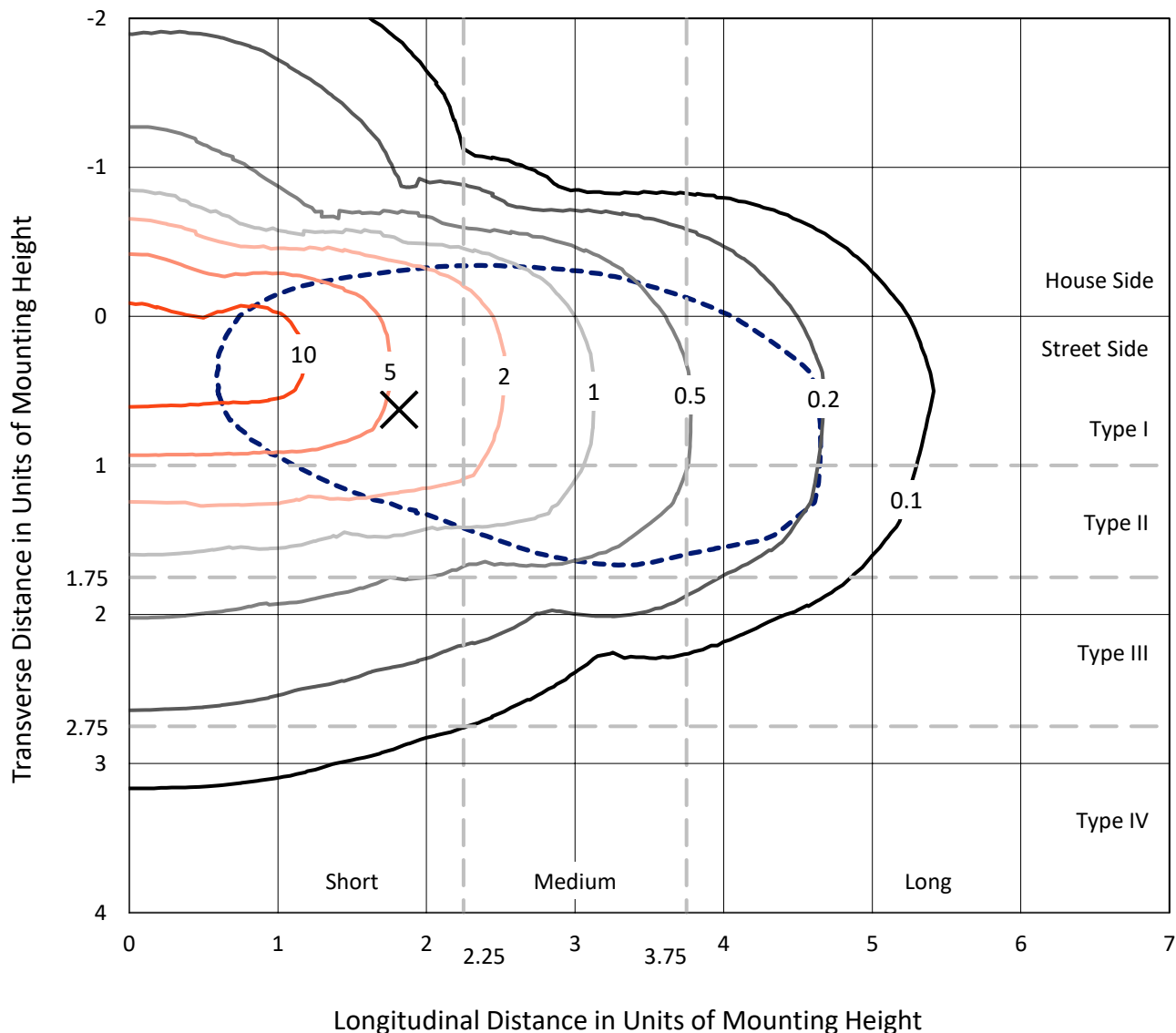
Input Watts (W): 285
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P285758
 CATALOG NUMBER: PRV-XL-C150-D-UNV-T2-BZ-7050

Iso-Footcandle Lines of Horizontal Illumination

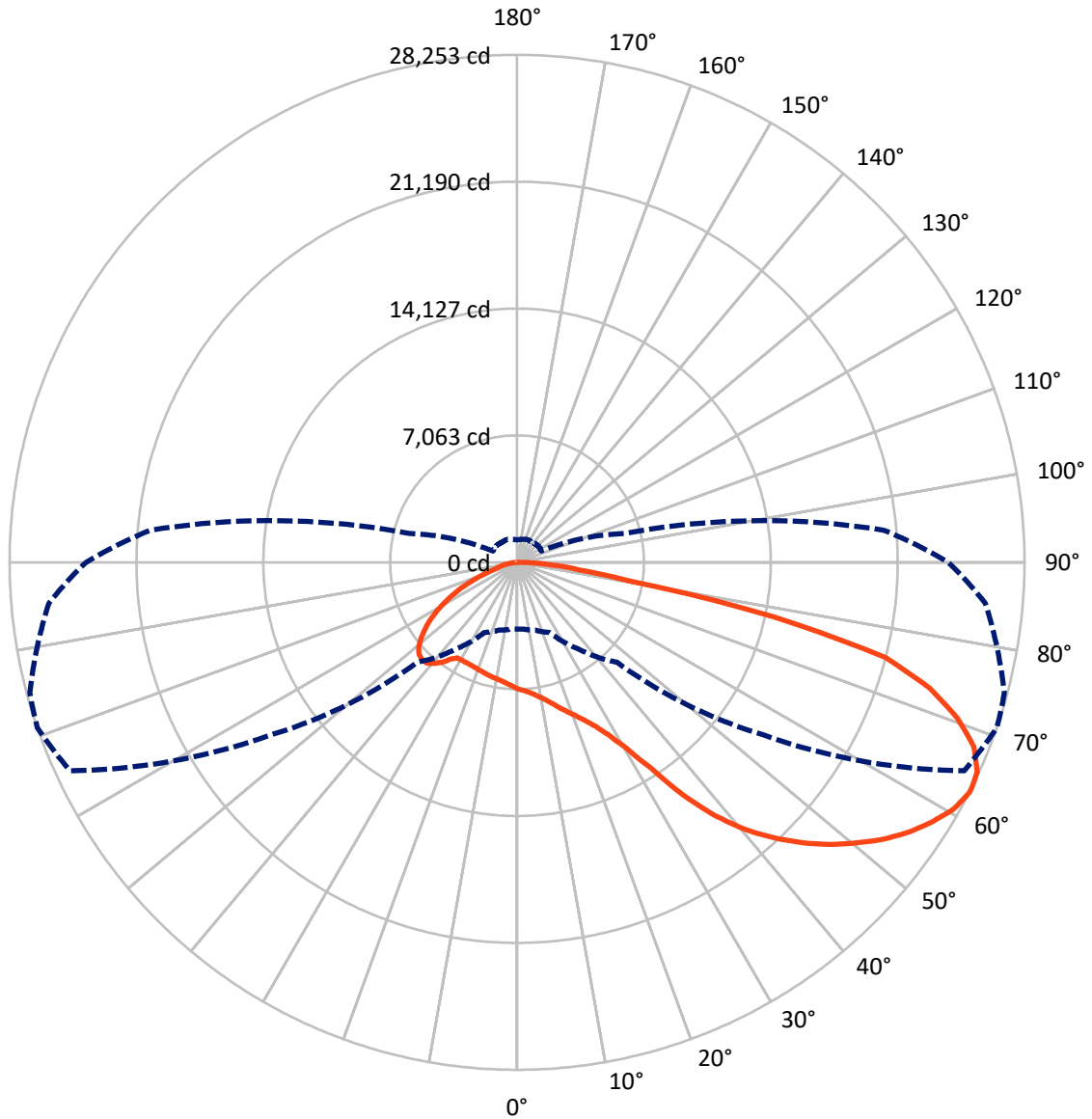
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - N/A

REPORT NUMBER: P285758
CATALOG NUMBER: PRV-XL-C150-D-UNV-T2-BZ-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P285758
 CATALOG NUMBER: PRV-XL-C150-D-UNV-T2-BZ-7050

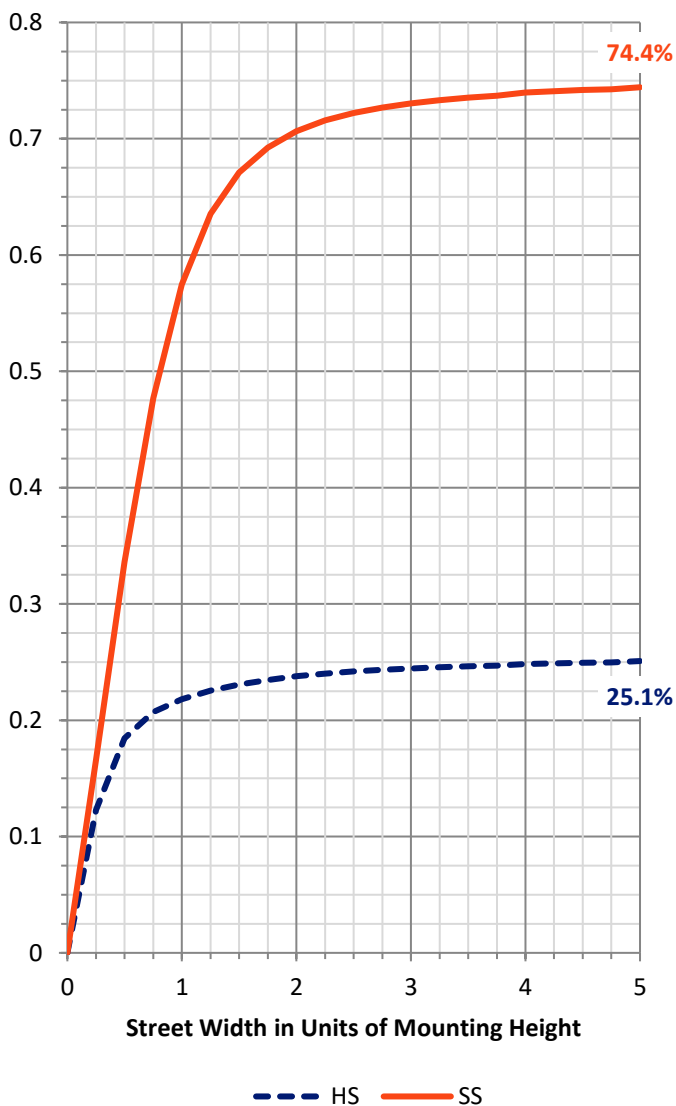
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10751.1	0.0	10751.1
	% Fixture	25.5	0.0	25.5
Street Side	Lumens	31348.9	0.0	31348.9
	% Fixture	74.5	0.0	74.5
Total	Lumens	42100.0	0.0	42100.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	680.0	1.6
10°-20°	2081.2	4.9
20°-30°	3528.1	8.4
30°-40°	5317.5	12.6
40°-50°	7305.1	17.4
50°-60°	8493.0	20.2
60°-70°	8380.2	19.9
70°-80°	5358.4	12.7
80°-90°	956.5	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	42100.0	100.0
0°-180°	42100.0	100.0

Coefficient of Utilization

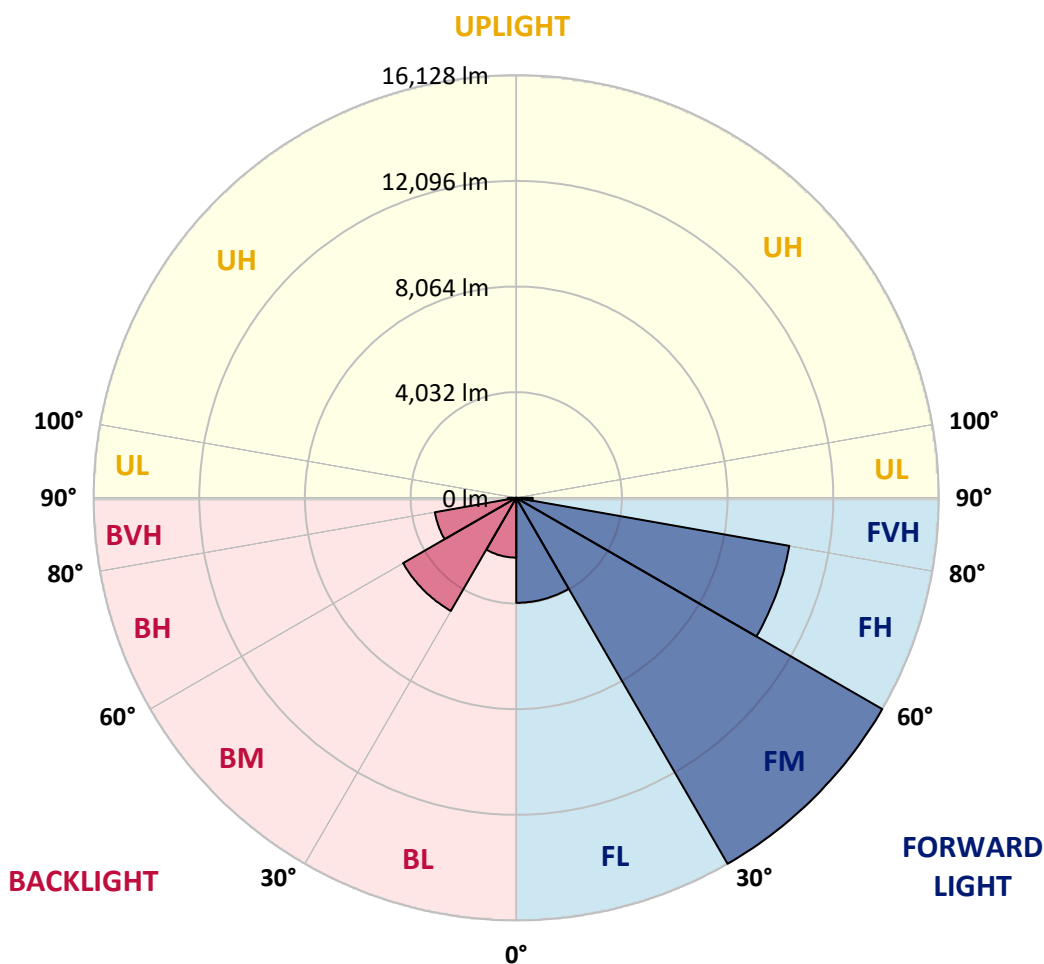


REPORT NUMBER: P285758
 CATALOG NUMBER: PRV-XL-C150-D-UNV-T2-BZ-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4006.9	9.5			
FM (30°-60°)	16127.7	38.3			
FH (60°-80°)	10582.1	25.1			G4/12000
FVH (80°-90°)	632.1	1.5			G4/750
BL (0°-30°)	2282.3	5.4	B3/2500		
BM (30°-60°)	4987.9	11.8	B3/5000		
BH (60°-80°)	3156.5	7.5	B4/5000		G4/5000
BVH (80°-90°)	324.4	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





REPORT NUMBER: P285758

CATALOG NUMBER: PRV-XL-C150-D-UNV-T2-BZ-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	7058.1	7058.1	7058.1	7058.1	7058.1	7058.1	7058.1	7058.1	7058.1	7058.1	7058.1
2.5°	7524.6	7510.1	7492.5	7462.1	7426.8	7385.1	7341.8	7244.0	7143.1	7111.0	7042.1
5°	7938.2	7910.9	7888.5	7859.6	7792.3	7707.3	7593.5	7433.2	7276.1	7226.4	7083.7
7.5°	8303.6	8273.2	8233.1	8194.6	8120.9	8011.9	7858.0	7654.4	7465.3	7378.7	7146.3
10°	8629.1	8600.2	8579.4	8536.1	8476.8	8345.3	8162.6	7907.7	7688.1	7567.9	7245.7
12.5°	8989.7	8965.7	8922.4	8872.7	8794.2	8667.5	8484.8	8207.5	7973.4	7827.5	7397.9
15°	9356.8	9340.8	9263.9	9235.0	9146.8	9001.0	8839.1	8553.7	8314.9	8133.7	7615.9
17.5°	9682.2	9671.0	9622.9	9589.3	9517.1	9353.6	9186.9	8925.6	8682.0	8451.1	7858.0
20°	9890.6	9906.7	9897.0	9890.6	9885.8	9751.2	9586.1	9316.8	9071.5	8842.3	8117.7
22.5°	10084.6	10091.0	10116.7	10176.0	10260.9	10201.6	10023.7	9775.2	9525.1	9251.0	8454.3
25°	10145.5	10150.3	10249.7	10429.2	10668.1	10693.7	10547.9	10381.2	10108.6	9839.3	8916.0
27.5°	10195.2	10208.0	10333.1	10647.3	11067.2	11189.1	11136.2	11081.7	10889.3	10607.2	9536.4
30°	10180.8	10184.0	10390.8	10794.7	11384.6	11713.3	11793.4	12056.3	12008.2	11815.9	10575.1
32.5°	9916.3	9892.2	10192.0	10797.9	11633.1	12239.1	12609.4	13358.0	13641.7	13693.0	12652.6
35°	9377.7	9377.7	9826.5	10672.9	11812.7	12758.4	13539.1	14941.7	15898.8	15924.4	14627.6
37.5°	8928.8	8957.7	9461.0	10438.9	11896.0	13285.8	14605.1	16878.2	17888.1	17801.5	16277.1
40°	8481.6	8516.8	9033.0	10119.9	11846.3	13741.1	15639.1	18724.9	19564.9	19366.1	17682.9
42.5°	7986.2	8013.5	8497.6	9666.2	11674.8	14072.9	16750.0	20300.6	20969.1	20727.0	18965.3
45°	7490.9	7537.4	7973.4	9057.1	11339.8	14271.7	17702.1	21730.5	22272.4	21993.4	20132.3
47.5°	6761.5	6941.1	7449.2	8455.9	10732.2	14257.3	18546.9	23014.6	23474.6	23178.1	21183.9
50°	5278.7	5384.5	6505.1	7910.9	9930.7	13970.3	19213.8	24160.7	24555.1	24292.2	22246.7
52.5°	4794.6	4823.5	5185.8	7242.4	9042.6	13402.8	19707.5	25220.3	25605.0	25303.7	23208.5
55°	4546.2	4562.2	4740.1	5921.6	8289.2	12357.7	19932.0	26199.8	26489.9	26150.1	24022.9
57.5°	4207.9	4257.6	4506.1	5047.9	7518.2	10879.7	19641.8	26969.2	27259.4	26890.7	24801.9
60°	3957.9	3988.3	4201.5	4621.5	6625.3	9151.6	18638.3	27525.5	27916.6	27576.8	25524.9
62.5°	3711.0	3728.6	3908.2	4312.1	5857.4	7866.0	16764.4	27461.3	28253.2	28083.3	26166.1
63°	3659.7	3675.7	3855.3	4256.0	5743.6	7603.1	16370.0	27381.2	28253.2	28134.6	26246.2
65°	3432.1	3451.3	3629.2	3994.7	5267.5	6942.7	14609.9	26882.6	28152.2	28208.3	26360.1
67.5°	3093.8	3125.9	3273.4	3592.4	4552.6	6138.0	11998.6	26361.7	27427.7	27547.9	25730.1
70°	2694.7	2701.1	2879.0	3146.7	3837.6	5221.0	9249.4	24781.1	26012.2	26065.1	24256.9
72.5°	2269.9	2287.5	2447.8	2673.8	3183.6	4323.3	6612.5	21849.2	24034.1	24332.2	21789.9
75°	1981.3	1995.8	2130.4	2289.1	2643.4	3408.0	4422.7	15932.4	21188.7	21520.5	18848.3
77.5°	1659.1	1668.7	1809.8	1918.8	2148.0	2571.2	3053.8	8406.2	14593.9	16360.4	14725.3
80°	1181.4	1183.0	1324.1	1409.1	1556.5	1580.6	1941.3	4474.0	6421.7	8298.8	9731.9
82.5°	256.5	368.7	554.6	697.3	780.7	657.2	955.4	2451.0	3547.5	4235.2	5275.5
85°	110.6	152.3	293.4	322.2	214.8	237.2	387.9	1306.5	2027.8	2414.1	2715.5
87.5°	20.8	27.3	75.3	101.0	62.5	65.7	78.5	418.4	710.1	833.6	929.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P285758
 CATALOG NUMBER: PRV-XL-C150-D-UNV-T2-BZ-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7058.1	7058.1	7058.1	7058.1	7058.1	7058.1	7058.1	7058.1	7058.1	7058.1	7058.1
2.5°	7000.4	6981.2	6917.0	6873.7	6846.5	6811.2	6766.3	6707.0	6689.4	6647.7	6681.4
5°	7005.2	6953.9	6819.2	6721.5	6633.3	6556.4	6466.6	6381.6	6349.6	6293.5	6315.9
7.5°	7027.6	6941.1	6732.7	6583.6	6452.2	6348.0	6222.9	6118.7	6081.9	6017.7	6029.0
10°	7087.0	6952.3	6665.4	6484.2	6303.1	6150.8	6004.9	5862.2	5798.1	5742.0	5769.3
12.5°	7191.1	6994.0	6634.9	6402.5	6162.0	5976.1	5762.9	5580.1	5490.3	5418.2	5442.3
15°	7348.2	7074.1	6599.6	6285.4	5995.3	5753.2	5491.9	5261.1	5160.1	5104.0	5131.3
17.5°	7508.5	7191.1	6578.8	6142.8	5794.9	5480.7	5229.1	5011.0	4826.7	4785.0	4801.0
20°	7697.7	7311.4	6594.8	5992.1	5559.3	5187.4	4889.2	4743.3	4504.5	4421.1	4425.9
22.5°	7947.8	7498.9	6609.3	5844.6	5278.7	4863.6	4515.7	4371.4	4142.2	3994.7	4001.1
25°	8306.8	7731.4	6642.9	5708.4	5003.0	4507.7	4105.3	3864.9	3722.2	3534.7	3536.3
27.5°	8799.0	8050.4	6710.2	5580.1	4709.7	4098.9	3606.8	3337.5	3212.5	3089.0	3073.0
30°	9639.0	8577.8	6809.6	5439.0	4361.8	3605.2	3081.0	2845.4	2739.6	2638.6	2627.3
32.5°	11411.9	9858.6	6947.5	5261.1	3986.7	3044.1	2616.1	2430.2	2281.1	2181.7	2196.1
35°	13231.3	11463.2	7531.0	5049.5	3563.5	2553.6	2266.7	2035.8	1845.1	1768.1	1772.9
37.5°	14789.5	12917.1	8407.8	4820.3	3095.4	2237.8	1915.6	1692.8	1540.5	1502.0	1550.1
40°	16086.3	14111.4	9111.6	4578.2	2603.3	1971.7	1561.3	1439.5	1341.7	1330.5	1373.8
42.5°	17312.6	15190.2	9703.1	4299.3	2144.8	1628.7	1296.8	1325.7	1311.3	1309.7	1316.1
45°	18426.7	16190.5	10033.3	3884.1	1821.0	1333.7	1224.7	1333.7	1357.8	1354.6	1336.9
47.5°	19441.4	17104.2	10257.7	3283.0	1542.1	1250.4	1264.8	1338.5	1383.4	1391.4	1372.2
50°	20494.6	17997.1	10293.0	2555.2	1431.5	1316.1	1300.0	1290.4	1372.2	1370.6	1372.2
52.5°	21435.6	18763.3	9908.3	1986.1	1489.2	1385.0	1328.9	1272.8	1319.3	1320.9	1288.8
55°	22144.1	19391.7	9249.4	1740.9	1537.3	1442.7	1412.3	1300.0	1271.2	1252.0	1263.2
57.5°	22875.1	19952.8	8354.9	1630.3	1551.7	1455.5	1486.0	1306.5	1263.2	1175.0	1168.6
60°	23578.8	20406.4	7295.3	1556.5	1534.1	1449.1	1439.5	1356.2	1272.8	1141.4	1096.5
62.5°	24006.8	20505.8	6211.7	1484.4	1500.4	1439.5	1388.2	1393.0	1335.3	1263.2	1253.6
63°	24056.5	20472.2	6004.9	1466.8	1492.4	1437.9	1388.2	1396.2	1335.3	1292.0	1293.6
65°	23994.0	20081.0	5193.8	1391.4	1463.6	1412.3	1367.4	1327.3	1227.9	1255.2	1287.2
67.5°	23291.9	18801.8	3993.1	1269.6	1399.4	1370.6	1304.9	1205.5	1115.7	1098.1	1117.3
70°	21395.5	16706.7	2829.3	1082.0	1284.0	1317.7	1288.8	1139.7	1050.0	1033.9	1072.4
72.5°	18763.3	14505.7	1942.9	865.6	1075.6	1226.3	1218.3	1098.1	1017.9	971.4	990.7
75°	15794.6	11700.4	1357.8	729.4	828.8	1104.5	1155.8	1062.8	1001.9	958.6	952.2
77.5°	12160.5	8837.4	1067.6	623.6	684.5	894.5	1062.8	1054.8	1130.1	1333.7	1288.8
80°	8284.4	5876.7	769.4	468.1	545.0	626.8	915.3	1088.5	1429.9	840.0	824.0
82.5°	4815.5	3452.9	480.9	311.0	325.4	426.4	573.9	1149.4	957.0	378.3	477.7
85°	2326.0	1503.6	240.5	214.8	149.1	160.3	266.1	1070.8	678.1	168.3	33.7
87.5°	742.2	365.5	25.6	19.2	22.4	32.1	126.6	654.0	399.2	144.3	20.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)