

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: P285756

Luminaire Tested: **PRV-XL-C100-D-UNV-T2-BZ-7050**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285756
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-C100-D-UNV-T2-BZ-7050
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 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: 31798 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

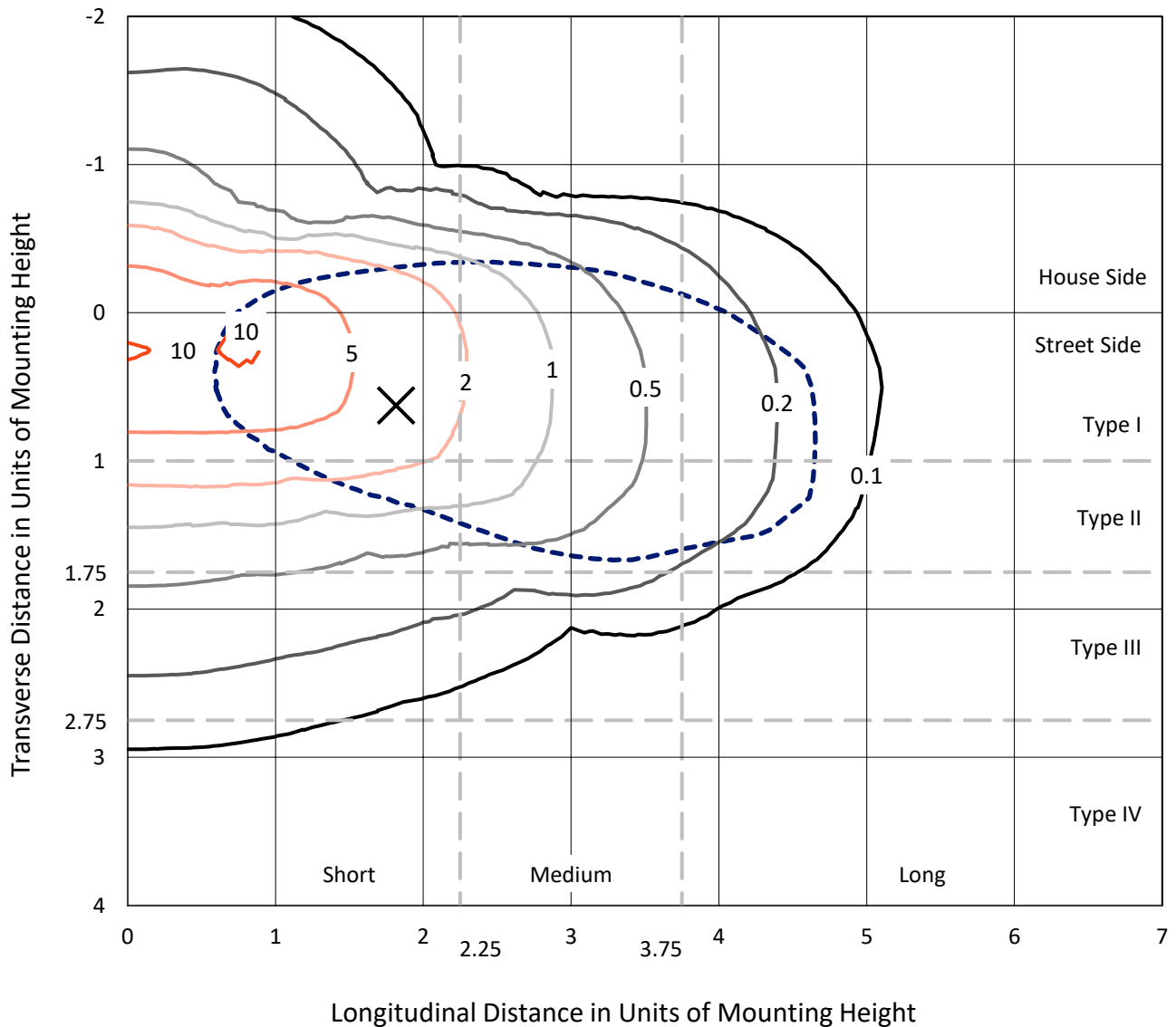
Input Watts (W): 217
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P285756
 CATALOG NUMBER: PRV-XL-C100-D-UNV-T2-BZ-7050

Iso-Footcandle Lines of Horizontal Illumination

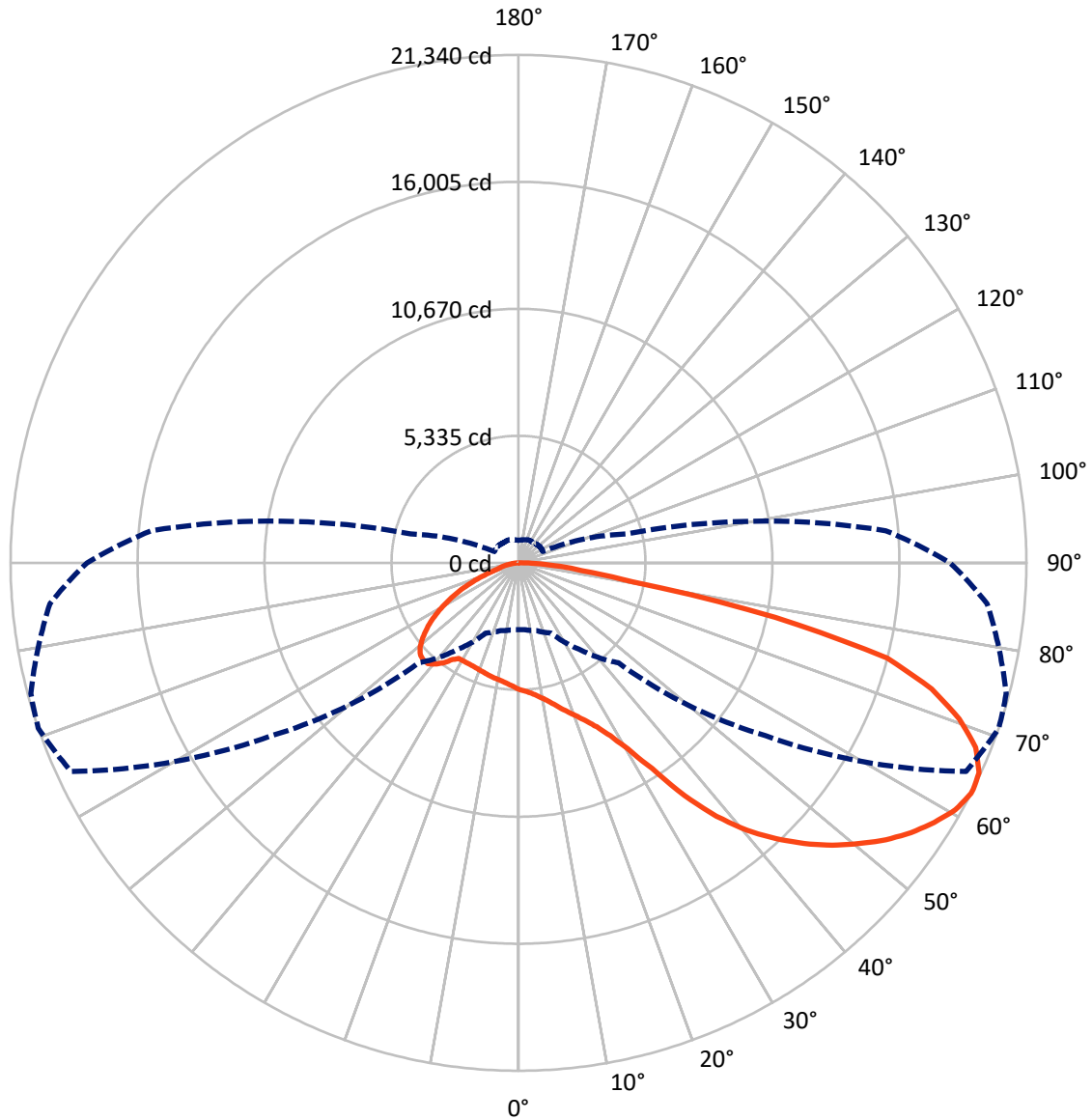
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - N/A

REPORT NUMBER: P285756
CATALOG NUMBER: PRV-XL-C100-D-UNV-T2-BZ-7050

Luminous Intensity Polar Plot



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

REPORT NUMBER: P285756
 CATALOG NUMBER: PRV-XL-C100-D-UNV-T2-BZ-7050

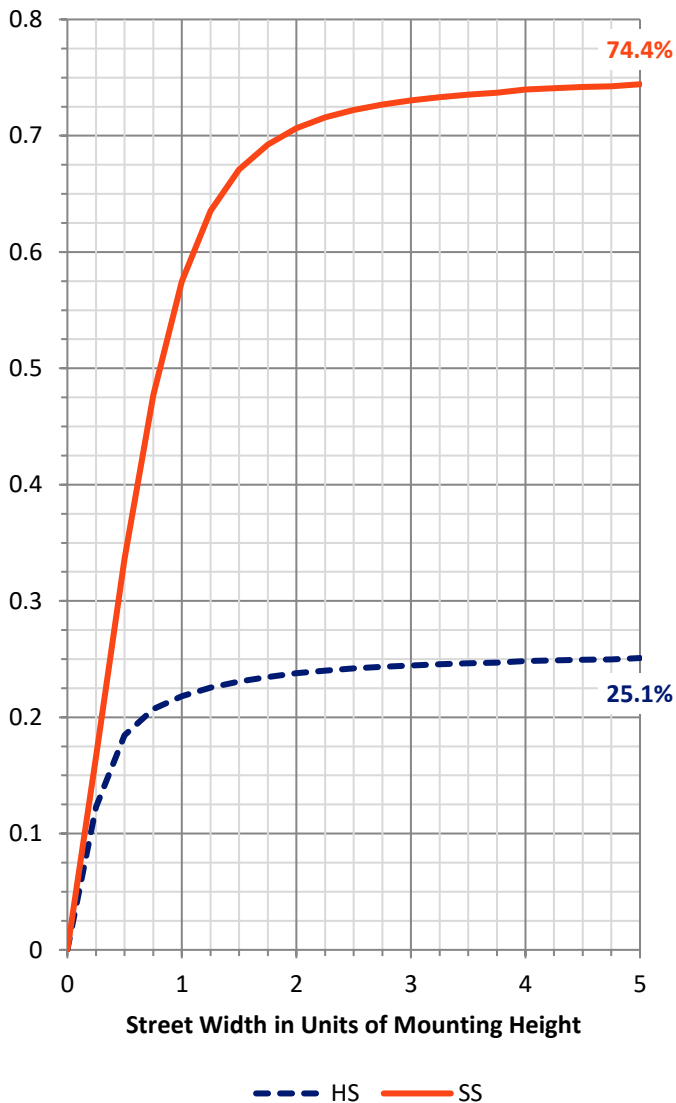
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8120.3	0.0	8120.3
	% Fixture	25.5	0.0	25.5
Street Side	Lumens	23677.7	0.0	23677.7
	% Fixture	74.5	0.0	74.5
Total	Lumens	31798.0	0.0	31798.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.6	1.6
10°-20°	1571.9	4.9
20°-30°	2664.7	8.4
30°-40°	4016.3	12.6
40°-50°	5517.5	17.4
50°-60°	6414.7	20.2
60°-70°	6329.5	19.9
70°-80°	4047.2	12.7
80°-90°	722.4	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°	31798.0	100.0
0°-180°	31798.0	100.0

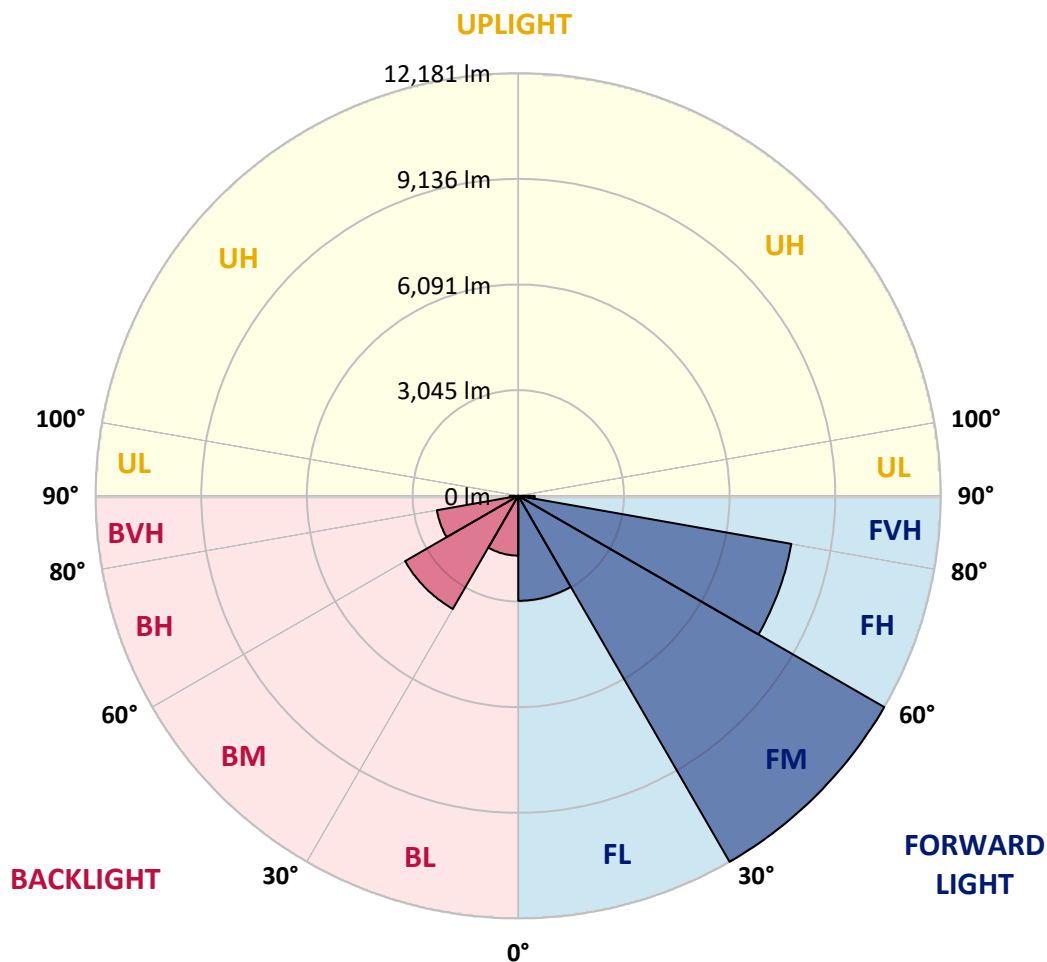


REPORT NUMBER: P285756
 CATALOG NUMBER: PRV-XL-C100-D-UNV-T2-BZ-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3026.4	9.5			
FM (30°-60°)	12181.2	38.3			
FH (60°-80°)	7992.7	25.1			G4/12000
FVH (80°-90°)	477.4	1.5			G3/500
BL (0°-30°)	1723.8	5.4	B3/2500		
BM (30°-60°)	3767.3	11.8	B3/5000		
BH (60°-80°)	2384.1	7.5	B3/2500		G3/2500
BVH (80°-90°)	245.1	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short





REPORT NUMBER: P285756

CATALOG NUMBER: PRV-XL-C100-D-UNV-T2-BZ-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	5331.0	5331.0	5331.0	5331.0	5331.0	5331.0	5331.0	5331.0	5331.0	5331.0	5331.0
2.5°	5683.3	5672.4	5659.1	5636.1	5609.4	5578.0	5545.3	5471.4	5395.1	5370.9	5318.9
5°	5995.7	5975.1	5958.1	5936.3	5885.5	5821.3	5735.4	5614.3	5495.6	5458.1	5350.3
7.5°	6271.7	6248.7	6218.4	6189.4	6133.7	6051.4	5935.1	5781.4	5638.5	5573.1	5397.6
10°	6517.5	6495.7	6480.0	6447.3	6402.5	6303.2	6165.2	5972.7	5806.8	5716.0	5472.6
12.5°	6789.9	6771.8	6739.1	6701.5	6642.2	6546.6	6408.5	6199.1	6022.3	5912.1	5587.6
15°	7067.2	7055.1	6997.0	6975.2	6908.6	6798.4	6676.1	6460.6	6280.2	6143.4	5752.3
17.5°	7313.0	7304.5	7268.2	7242.7	7188.3	7064.8	6938.8	6741.5	6557.5	6383.1	5935.1
20°	7470.4	7482.5	7475.2	7470.4	7466.7	7365.0	7240.3	7036.9	6851.7	6678.5	6131.3
22.5°	7616.9	7621.7	7641.1	7685.9	7750.0	7705.3	7570.9	7383.2	7194.3	6987.3	6385.5
25°	7662.9	7666.5	7741.6	7877.2	8057.6	8077.0	7966.8	7840.9	7635.0	7431.6	6734.2
27.5°	7700.4	7710.1	7804.5	8041.8	8359.1	8451.1	8411.1	8370.0	8224.7	8011.6	7202.8
30°	7689.5	7691.9	7848.1	8153.2	8598.8	8847.0	8907.5	9106.1	9069.8	8924.5	7987.4
32.5°	7489.7	7471.6	7698.0	8155.7	8786.5	9244.1	9523.8	10089.2	10303.5	10342.3	9556.5
35°	7082.9	7082.9	7421.9	8061.2	8922.1	9636.4	10226.0	11285.5	12008.3	12027.7	11048.1
37.5°	6743.9	6765.7	7145.9	7884.4	8985.0	10034.7	11031.2	12748.1	13510.8	13445.4	12294.0
40°	6406.1	6432.7	6822.6	7643.5	8947.5	10378.6	11812.1	14142.8	14777.3	14627.1	13355.8
42.5°	6032.0	6052.6	6418.2	7300.9	8817.9	10629.2	12651.2	15333.0	15837.9	15655.1	14324.5
45°	5657.9	5693.0	6022.3	6840.8	8564.9	10779.4	13370.4	16413.0	16822.2	16611.6	15205.9
47.5°	5107.0	5242.6	5626.4	6386.7	8106.0	10768.5	14008.4	17382.8	17730.3	17506.3	16000.1
50°	3987.0	4066.9	4913.2	5975.1	7500.6	10551.7	14512.1	18248.5	18546.4	18347.8	16802.9
52.5°	3621.4	3643.2	3916.8	5470.2	6829.9	10123.1	14885.0	19048.8	19339.4	19111.8	17529.3
55°	3433.7	3445.8	3580.2	4472.5	6260.8	9333.7	15054.5	19788.6	20007.7	19751.1	18144.4
57.5°	3178.2	3215.8	3403.4	3812.7	5678.4	8217.4	14835.4	20369.8	20588.9	20310.4	18732.8
60°	2989.4	3012.4	3173.4	3490.6	5004.1	6912.2	14077.5	20789.9	21085.3	20828.6	19278.9
62.5°	2802.9	2816.2	2951.8	3256.9	4424.1	5941.2	12662.1	20741.5	21339.6	21211.2	19763.2
63°	2764.2	2776.3	2911.9	3214.6	4338.1	5742.6	12364.2	20680.9	21339.6	21250.0	19823.7
65°	2592.2	2606.8	2741.2	3017.2	3978.5	5243.8	11034.8	20304.4	21263.3	21305.7	19909.7
67.5°	2336.8	2361.0	2472.4	2713.3	3438.5	4636.0	9062.5	19910.9	20716.0	20806.8	19433.8
70°	2035.3	2040.1	2174.5	2376.7	2898.5	3943.4	6986.1	18717.1	19646.9	19686.9	18321.2
72.5°	1714.4	1727.7	1848.8	2019.5	2404.6	3265.4	4994.4	16502.6	18152.9	18378.1	16457.8
75°	1496.5	1507.4	1609.1	1729.0	1996.5	2574.1	3340.5	12033.7	16003.8	16254.4	14236.1
77.5°	1253.1	1260.4	1366.9	1449.3	1622.4	1942.1	2306.5	6349.2	11022.7	12357.0	11122.0
80°	892.3	893.5	1000.1	1064.3	1175.6	1193.8	1466.2	3379.2	4850.3	6268.1	7350.5
82.5°	193.7	278.5	418.9	526.7	589.6	496.4	721.6	1851.2	2679.4	3198.8	3984.6
85°	83.5	115.0	221.6	243.4	162.2	179.2	293.0	986.8	1531.6	1823.4	2051.0
87.5°	15.7	20.6	56.9	76.3	47.2	49.6	59.3	316.0	536.4	629.6	702.2
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: P285756

CATALOG NUMBER: PRV-XL-C100-D-UNV-T2-BZ-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5331.0	5331.0	5331.0	5331.0	5331.0	5331.0	5331.0	5331.0	5331.0	5331.0	5331.0
2.5°	5287.4	5272.8	5224.4	5191.7	5171.1	5144.5	5110.6	5065.8	5052.5	5021.0	5046.4
5°	5291.0	5252.3	5150.6	5076.7	5010.1	4952.0	4884.2	4820.0	4795.8	4753.4	4770.4
7.5°	5308.0	5242.6	5085.2	4972.6	4873.3	4794.6	4700.2	4621.5	4593.6	4545.2	4553.7
10°	5352.8	5251.0	5034.3	4897.5	4760.7	4645.7	4535.5	4427.7	4379.3	4336.9	4357.5
12.5°	5431.5	5282.5	5011.3	4835.8	4654.1	4513.7	4352.7	4214.6	4146.8	4092.4	4110.5
15°	5550.1	5343.1	4984.7	4747.4	4528.2	4345.4	4148.1	3973.7	3897.4	3855.0	3875.6
17.5°	5671.2	5431.5	4968.9	4639.6	4376.9	4139.6	3949.5	3784.8	3645.6	3614.1	3626.2
20°	5814.1	5522.3	4981.1	4525.8	4198.9	3918.0	3692.8	3582.6	3402.2	3339.3	3342.9
22.5°	6002.9	5663.9	4991.9	4414.4	3987.0	3673.4	3410.7	3301.7	3128.6	3017.2	3022.0
25°	6274.1	5839.5	5017.4	4311.5	3778.8	3404.6	3100.7	2919.1	2811.4	2669.7	2670.9
27.5°	6645.8	6080.4	5068.2	4214.6	3557.2	3095.9	2724.2	2520.8	2426.4	2333.1	2321.0
30°	7280.3	6478.8	5143.3	4108.1	3294.5	2723.0	2327.1	2149.1	2069.2	1992.9	1984.4
32.5°	8619.4	7446.1	5247.4	3973.7	3011.2	2299.2	1976.0	1835.5	1722.9	1647.8	1658.7
35°	9993.6	8658.1	5688.1	3813.9	2691.5	1928.7	1712.0	1537.7	1393.6	1335.5	1339.1
37.5°	11170.4	9756.3	6350.4	3640.7	2338.0	1690.2	1446.9	1278.6	1163.5	1134.5	1170.8
40°	12149.9	10658.3	6881.9	3457.9	1966.3	1489.2	1179.3	1087.3	1013.4	1004.9	1037.6
42.5°	13076.2	11473.1	7328.7	3247.2	1620.0	1230.1	979.5	1001.3	990.4	989.2	994.0
45°	13917.6	12228.6	7578.1	2933.7	1375.4	1007.3	925.0	1007.3	1025.5	1023.1	1009.8
47.5°	14684.0	12918.8	7747.6	2479.6	1164.7	944.4	955.3	1011.0	1044.9	1050.9	1036.4
50°	15479.5	13593.2	7774.3	1929.9	1081.2	994.0	981.9	974.7	1036.4	1035.2	1036.4
52.5°	16190.2	14171.9	7483.7	1500.1	1124.8	1046.1	1003.7	961.3	996.5	997.7	973.4
55°	16725.4	14646.5	6986.1	1314.9	1161.1	1089.7	1066.7	981.9	960.1	945.6	954.1
57.5°	17277.5	15070.3	6310.5	1231.3	1172.0	1099.4	1122.4	986.8	954.1	887.5	882.6
60°	17809.0	15412.9	5510.2	1175.6	1158.7	1094.5	1087.3	1024.3	961.3	862.1	828.2
62.5°	18132.3	15488.0	4691.7	1121.2	1133.3	1087.3	1048.5	1052.1	1008.6	954.1	946.8
63°	18169.8	15462.6	4535.5	1107.8	1127.2	1086.0	1048.5	1054.6	1008.6	975.9	977.1
65°	18122.6	15167.1	3922.8	1050.9	1105.4	1066.7	1032.8	1002.5	927.4	948.0	972.2
67.5°	17592.3	14201.0	3016.0	958.9	1057.0	1035.2	985.6	910.5	842.7	829.4	843.9
70°	16160.0	12618.5	2137.0	817.3	969.8	995.2	973.4	860.8	793.0	780.9	810.0
72.5°	14171.9	10956.1	1467.4	653.8	812.4	926.2	920.2	829.4	768.8	733.7	748.2
75°	11929.6	8837.3	1025.5	550.9	626.0	834.2	873.0	802.7	756.7	724.0	719.2
77.5°	9184.8	6674.9	806.4	471.0	517.0	675.6	802.7	796.7	853.6	1007.3	973.4
80°	6257.2	4438.6	581.2	353.5	411.7	473.4	691.3	822.1	1080.0	634.4	622.3
82.5°	3637.1	2608.0	363.2	234.9	245.8	322.1	433.5	868.1	722.8	285.7	360.8
85°	1756.8	1135.7	181.6	162.2	112.6	121.1	201.0	808.8	512.1	127.1	25.4
87.5°	560.6	276.1	19.4	14.5	17.0	24.2	95.6	494.0	301.5	109.0	15.7
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)