

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: P622765

Luminaire Tested: **PRV-M-PA6C-740-U-T2R**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-PA6C-740-U-T2R
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K LIGHT ENGINES AND TYPE II ROADWAY OPTICS, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61921 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

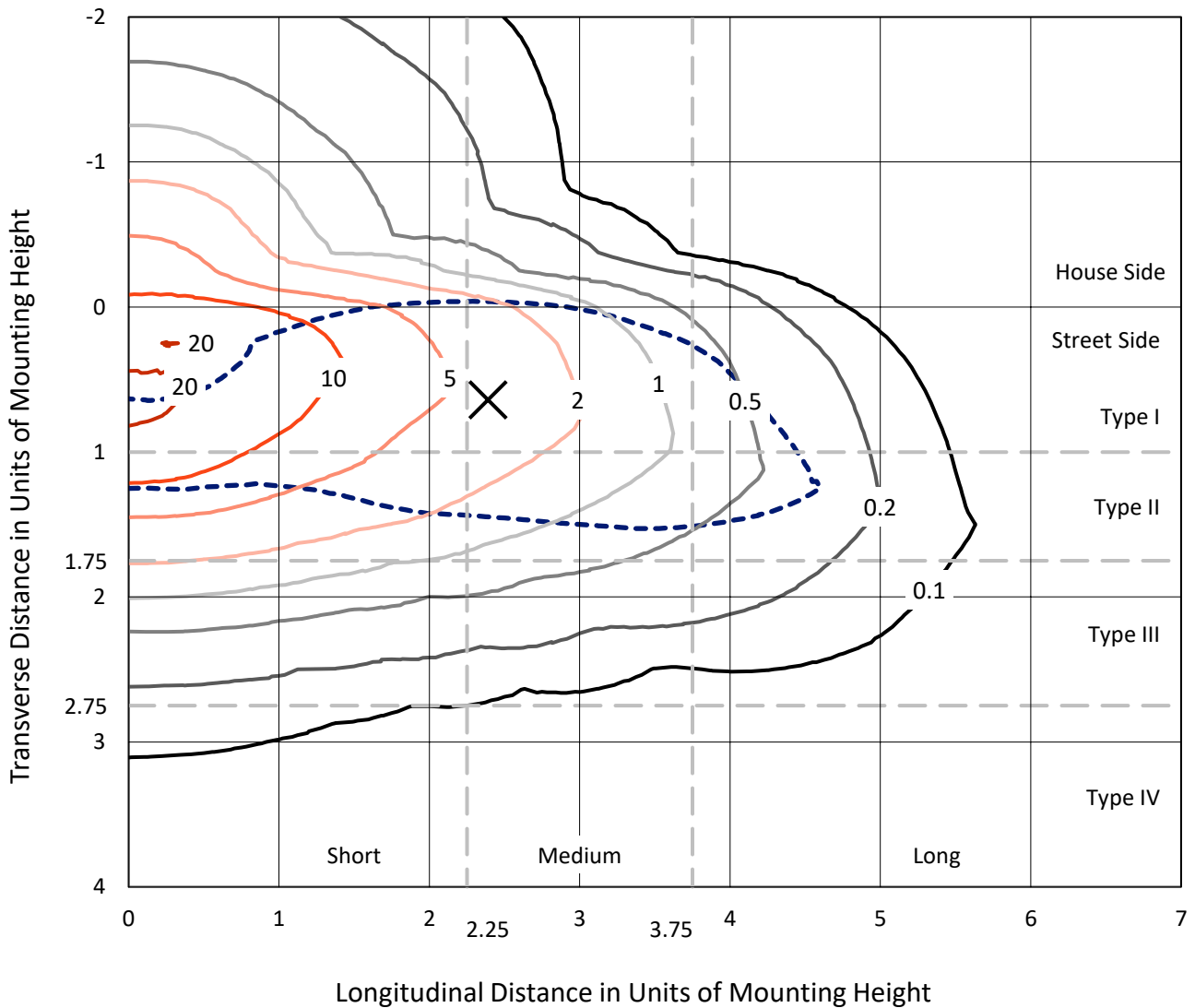
Input Watts (W): 457.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

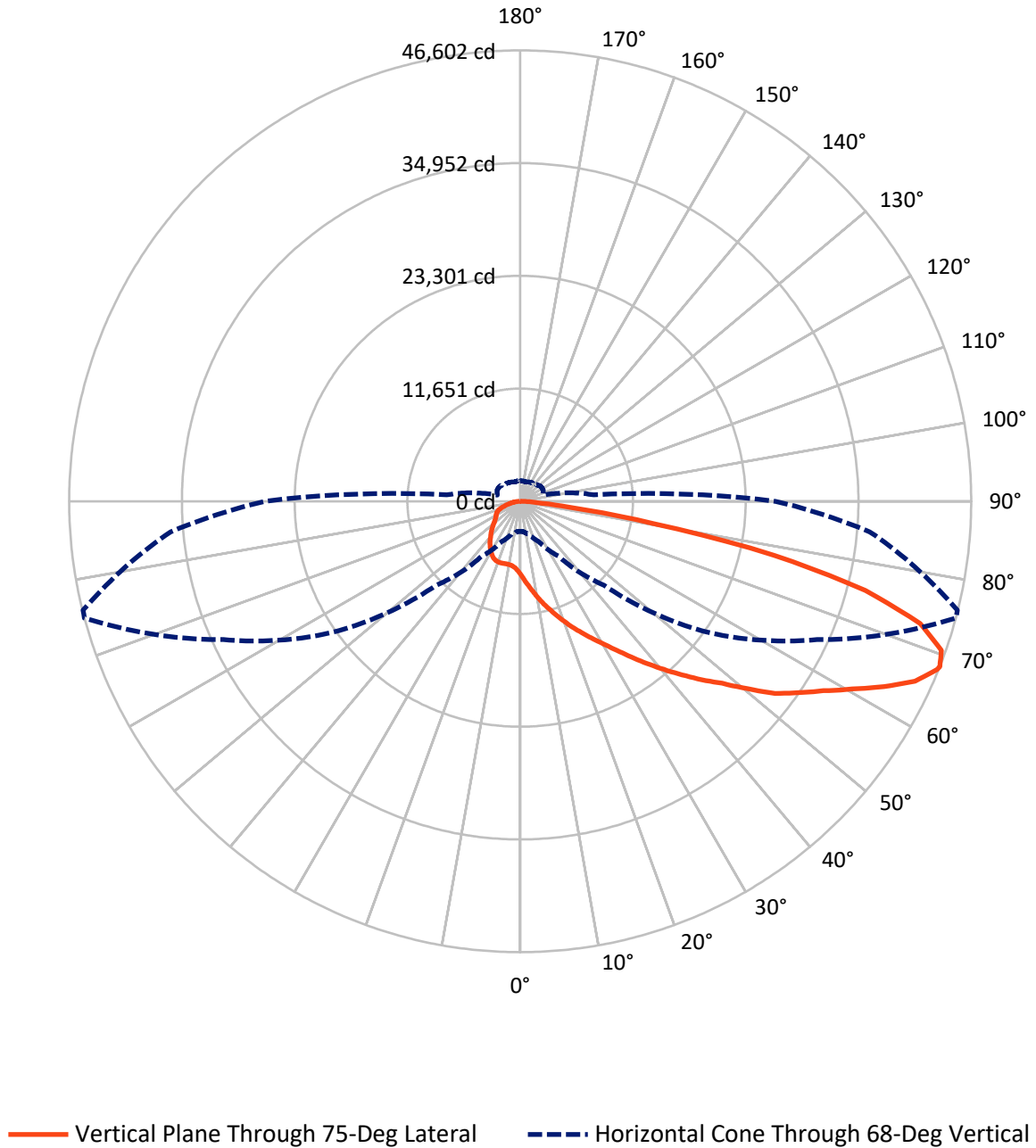
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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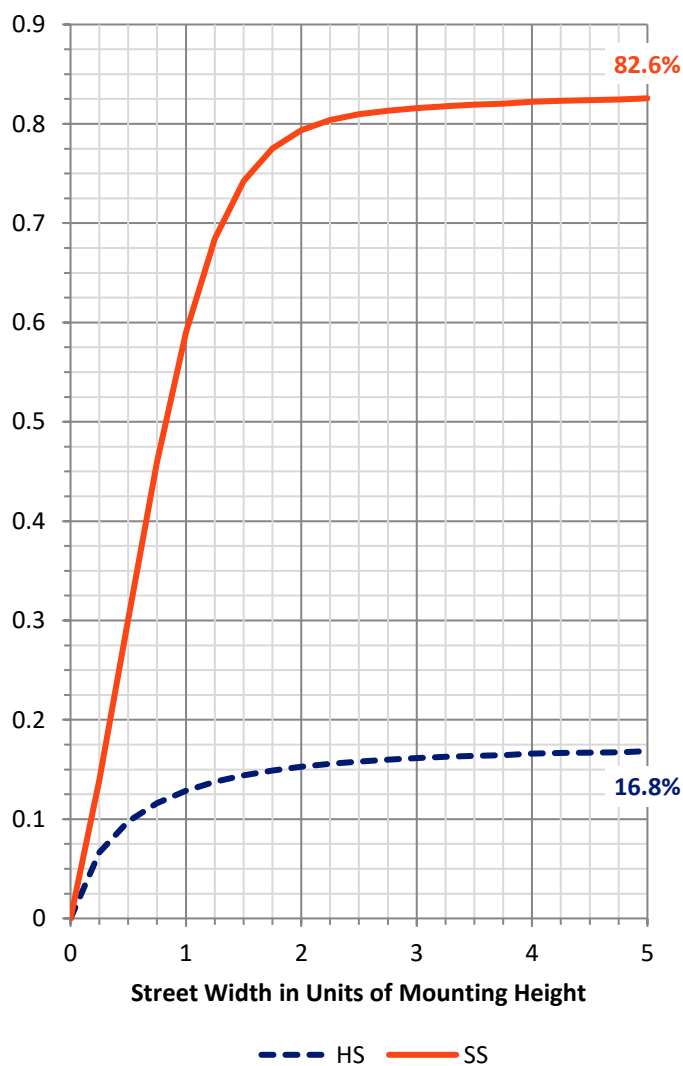
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10600.1	0.0	10600.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	51321.0	0.0	51321.0
	% Fixture	82.9	0.0	82.9
Total	Lumens	61921.0	0.0	61921.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	795.2	1.3
10°-20°	2721.8	4.4
20°-30°	5040.0	8.1
30°-40°	8213.5	13.3
40°-50°	11577.9	18.7
50°-60°	13316.2	21.5
60°-70°	12109.7	19.6
70°-80°	7031.5	11.4
80°-90°	1115.4	1.8
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°	61921.0	100.0
0°-180°	61921.0	100.0

Coefficient of Utilization



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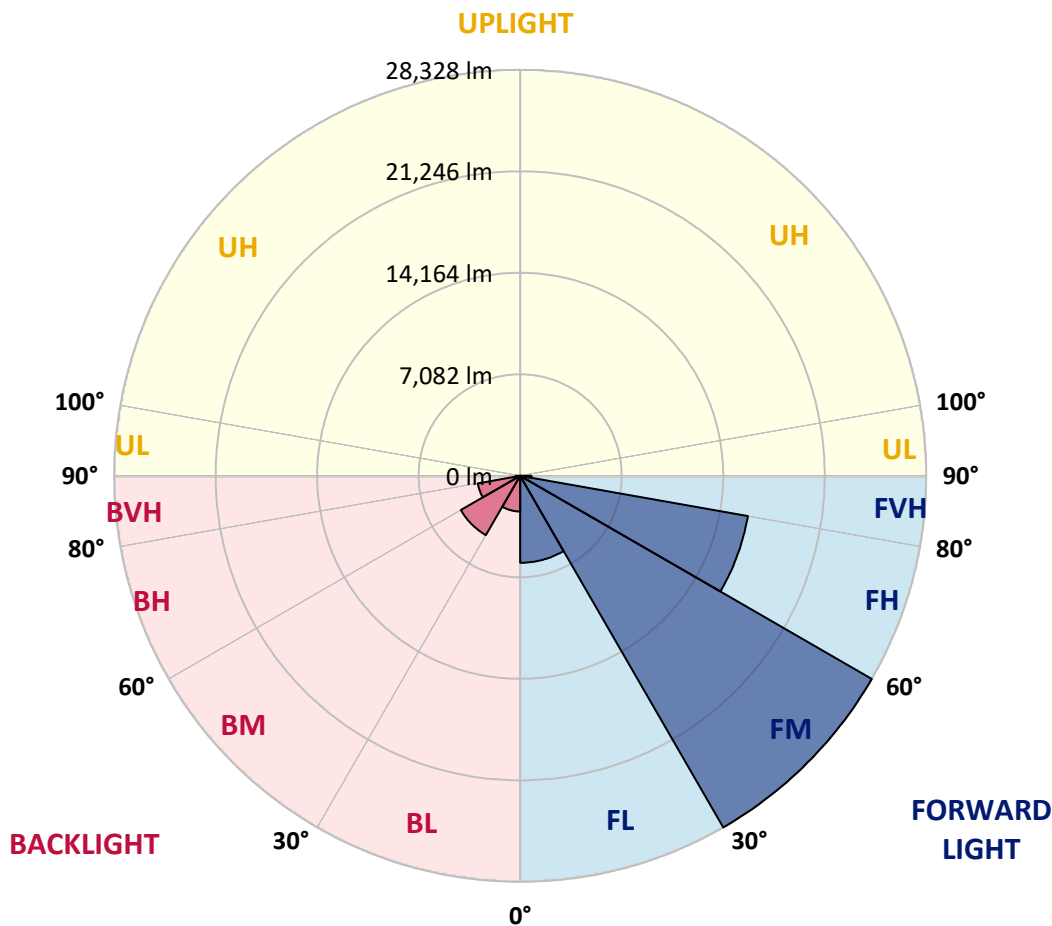
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6067.5	9.8			
FM (30°-60°)	28328.4	45.7			
FH (60°-80°)	16136.9	26.1			G5
FVH (80°-90°)	788.1	1.3			G5
BL (0°-30°)	2489.4	4.0	B3/2500		
BM (30°-60°)	4779.1	7.7	B3/5000		
BH (60°-80°)	3004.3	4.9	B4/5000		G4/5000
BVH (80°-90°)	327.3	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7565.4	7565.4	7565.4	7565.4	7565.4	7565.4	7565.4	7565.4	7565.4	7565.4	7565.4
2.5°	9624.9	9435.9	9409.1	9385.3	9211.2	8946.3	8775.2	8425.5	8124.9	8075.8	7782.7
5°	10989.5	10880.9	10807.9	10736.5	10526.7	10307.9	9886.8	9342.2	8736.5	8651.7	8056.5
7.5°	11770.7	11677.0	11642.8	11598.1	11450.8	11245.4	10852.6	10223.1	9403.2	9313.9	8409.2
10°	12495.4	12367.4	12342.2	12325.8	12227.6	12037.1	11739.5	11092.2	10139.8	9994.0	8860.0
12.5°	13130.8	13029.6	13044.5	13029.6	12999.9	12888.3	12604.1	11962.7	10898.7	10733.5	9327.3
15°	13557.9	13438.9	13544.5	13666.5	13733.5	13740.9	13479.0	12846.6	11641.3	11492.5	9854.1
17.5°	13776.7	13653.2	13812.4	14047.5	14324.3	14462.7	14354.0	13775.2	12476.1	12288.6	10421.0
20°	14221.6	14072.8	14218.6	14441.8	14830.2	15121.9	15224.6	14736.5	13342.1	13129.3	11017.8
22.5°	15176.9	15014.7	15056.4	15139.7	15441.8	15757.3	15977.5	15708.2	14226.1	13998.4	11633.8
25°	16831.7	16684.4	16490.9	16299.0	16357.0	16502.8	16665.0	16672.5	15144.2	14886.8	12272.2
27.5°	19141.2	18791.5	18447.8	17923.9	17610.0	17464.1	17398.7	17620.4	16108.5	15843.6	12894.2
30°	21461.1	21135.2	20630.8	19961.1	19226.0	18779.6	18327.2	18534.1	17151.6	16854.0	13532.6
32.5°	23468.5	23151.6	22638.2	21883.7	21013.2	20395.7	19498.3	19502.8	18358.5	17986.4	14284.1
35°	25233.4	24801.9	24282.5	23496.8	22645.6	21892.7	20874.8	20541.5	19766.2	19348.0	15193.3
37.5°	26560.8	26106.9	25575.7	24801.9	24045.9	23484.9	22385.2	21684.3	21269.2	20879.3	16194.8
40°	27447.7	26992.3	26513.2	25819.7	25190.3	24859.9	24154.5	22979.0	22837.6	22394.1	17297.5
42.5°	27849.5	27410.5	27105.4	26523.6	26054.8	26014.6	25675.4	24434.3	24525.1	24066.7	18508.8
45°	27684.3	27298.9	27151.5	26842.0	26596.5	26868.8	27208.1	25974.5	26309.3	25874.8	19800.4
47.5°	26894.1	26587.6	26690.2	26697.7	26763.2	27467.0	28420.9	27583.1	28111.4	27684.3	21373.3
50°	25245.3	25081.6	25593.5	26090.5	26528.0	27779.5	29538.4	29349.4	30444.7	29967.0	23345.0
52.5°	21641.2	21870.3	23351.0	24599.5	25839.1	27740.8	30431.3	31295.9	32992.3	32520.5	25295.9
55°	17174.0	17426.9	19300.4	22078.7	24459.6	27288.4	30926.8	32682.7	34935.7	34596.4	27029.5
57.5°	13782.6	13949.3	15276.6	18409.1	21964.1	26218.5	31190.2	33734.8	36944.6	36575.6	29017.6
60°	10967.2	11147.2	12135.3	14514.8	18522.2	24223.0	31132.2	34638.1	39404.4	39081.5	31228.9
62.5°	8275.2	8215.7	9072.8	11068.4	14787.1	21151.6	30263.1	35257.1	42172.2	41931.2	33395.5
65°	5264.8	5471.7	6180.0	7730.6	11118.9	17275.1	28147.1	35211.0	44825.5	44707.9	35190.2
67.5°	3407.7	3401.8	3873.5	5087.8	7578.8	13099.6	24496.8	34214.0	46446.0	46402.9	36248.2
68°	3123.5	3122.0	3529.7	4617.5	6937.4	12267.7	23583.1	33843.4	46602.3	46553.2	36251.2
70°	2455.3	2452.4	2632.4	3113.1	4757.4	9063.9	19191.8	31658.9	46173.7	46163.3	35446.1
72.5°	2123.5	2117.5	2171.1	2284.2	2927.1	5776.7	13403.2	27340.5	43203.5	43050.2	32709.5
75°	1907.7	1900.3	1933.0	1927.1	2123.5	3534.2	8285.6	22072.7	36830.0	36355.3	25651.6
77.5°	1686.0	1677.1	1708.3	1705.3	1797.6	2373.5	4552.0	15807.9	26806.3	25249.8	15900.2
80°	1436.0	1428.6	1465.8	1474.7	1577.4	1785.7	2352.7	9781.2	13953.7	12730.5	6669.6
82.5°	1138.4	1150.3	1215.8	1239.6	1345.2	1296.1	1461.3	4550.6	5023.8	4413.7	2044.6
85°	718.7	754.5	919.6	956.8	1040.2	828.9	1008.9	1845.2	1620.5	1462.8	540.2
87.5°	267.9	297.6	526.8	531.2	529.8	334.8	514.9	651.8	520.8	471.7	168.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7565.4	7565.4	7565.4	7565.4	7565.4	7565.4	7565.4	7565.4	7565.4	7565.4	7565.4
2.5°	7644.3	7455.3	7174.0	6915.1	6702.3	6534.2	6366.0	6299.1	6232.1	6221.7	6151.7
5°	7744.0	7407.7	6880.9	6480.6	6203.8	6011.9	5889.8	5836.3	5800.5	5787.2	5726.1
7.5°	7925.5	7434.5	6709.8	6244.0	5995.5	5880.9	5840.7	5836.3	5834.8	5837.7	5769.3
10°	8190.4	7546.1	6644.3	6168.1	5988.0	5934.5	5934.5	5949.4	5949.4	5959.8	5892.8
12.5°	8491.0	7684.5	6626.4	6180.0	6050.5	6010.4	6004.4	6014.8	5999.9	6002.9	5936.0
15°	8824.3	7849.6	6642.8	6217.2	6089.2	6028.2	5983.6	5962.7	5922.6	5904.7	5843.7
17.5°	9199.3	8043.1	6669.6	6227.6	6059.5	5952.3	5849.7	5778.2	5717.2	5709.8	5636.9
20°	9605.6	8251.4	6680.0	6175.5	5946.4	5776.7	5623.5	5517.8	5428.5	5389.8	5337.7
22.5°	10047.5	8461.2	6629.4	6023.8	5738.0	5516.3	5325.8	5187.5	5061.0	5016.3	4949.4
25°	10498.4	8653.2	6514.8	5816.9	5458.3	5202.3	4959.8	4779.7	4635.4	4575.9	4514.8
27.5°	10935.9	8803.5	6330.3	5544.6	5151.7	4854.1	4568.4	4349.7	4199.4	4150.3	4098.2
30°	11371.9	8927.0	6066.9	5250.0	4839.2	4498.5	4190.4	3979.1	3849.7	3770.8	3720.2
32.5°	11898.7	9052.0	5803.5	4946.4	4517.8	4148.8	3882.4	3718.7	3558.0	3464.3	3418.1
35°	12513.3	9191.9	5497.0	4636.9	4186.0	3851.2	3689.0	3476.2	3284.2	3212.8	3175.6
37.5°	13232.0	9327.3	5178.5	4325.9	3866.0	3662.2	3531.2	3270.8	3125.0	3083.3	3056.5
40°	14035.6	9450.8	4805.0	4019.3	3575.9	3523.8	3358.6	3150.3	3038.7	2983.6	2953.8
42.5°	14916.5	9552.0	4500.0	3697.9	3348.2	3357.1	3209.8	3089.3	2933.0	2867.5	2842.2
45°	15915.0	9705.3	4212.8	3380.9	3156.2	3156.2	3101.2	2974.7	2837.8	2797.6	2781.2
47.5°	17215.6	9918.1	3910.7	3114.6	3023.8	2974.7	2983.6	2827.4	2764.9	2726.2	2712.8
50°	18712.6	10089.2	3604.1	2930.0	2933.0	2864.6	2809.5	2736.6	2693.4	2651.8	2625.0
52.5°	20089.1	10092.2	3355.6	2827.4	2849.7	2787.2	2672.6	2651.8	2622.0	2555.0	2534.2
55°	21376.3	10040.1	3144.3	2773.8	2773.8	2705.3	2596.7	2578.8	2540.2	2474.7	2461.3
57.5°	22845.0	9982.1	2989.6	2755.9	2729.1	2601.2	2540.2	2517.8	2455.3	2416.6	2403.3
60°	24431.3	9895.7	2875.0	2758.9	2703.8	2517.8	2491.0	2456.8	2392.8	2364.6	2352.7
62.5°	26019.1	9645.7	2781.2	2769.3	2689.0	2474.7	2441.9	2397.3	2328.8	2306.5	2294.6
65°	26876.2	8988.0	2665.2	2757.4	2671.1	2449.4	2386.9	2325.9	2233.6	2224.7	2206.8
67.5°	26611.4	7897.3	2483.6	2669.6	2645.8	2415.2	2315.5	2217.2	2104.1	2141.3	2123.5
68°	26371.8	7630.9	2437.5	2639.9	2636.9	2407.7	2299.1	2190.5	2077.4	2126.5	2096.7
70°	24766.1	6497.0	2211.3	2470.2	2565.5	2376.5	2215.8	2081.8	1953.9	2046.1	2000.0
72.5°	21260.2	5007.4	1857.1	2165.2	2383.9	2322.9	2105.6	1912.2	1769.3	1775.3	1718.7
75°	15803.4	3462.8	1492.5	1748.5	2099.7	2248.5	1976.2	1727.7	1549.1	1489.6	1465.8
77.5°	8642.8	2258.9	1165.2	1327.4	1696.4	2053.6	1818.4	1525.3	1321.4	1264.9	1233.6
80°	3587.8	1340.8	903.3	979.2	1177.1	1753.0	1702.4	1317.0	1089.3	1041.7	998.5
82.5°	1187.5	821.4	669.6	663.7	769.3	1366.1	1501.5	1037.2	836.3	870.5	720.2
85°	415.2	431.5	422.6	398.8	430.1	800.6	1111.6	690.5	544.6	444.9	418.2
87.5°	116.1	156.2	157.7	125.0	128.0	184.5	501.5	315.5	192.0	128.0	113.1
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)