

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: P622769

Luminaire Tested: **PRV-M-PA6C-8540-U-T3**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-10)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-PA6C-8540-U-T3
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 85 CRI, 4000K LIGHT ENGINES AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47952.5 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - 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: 28.75 FT

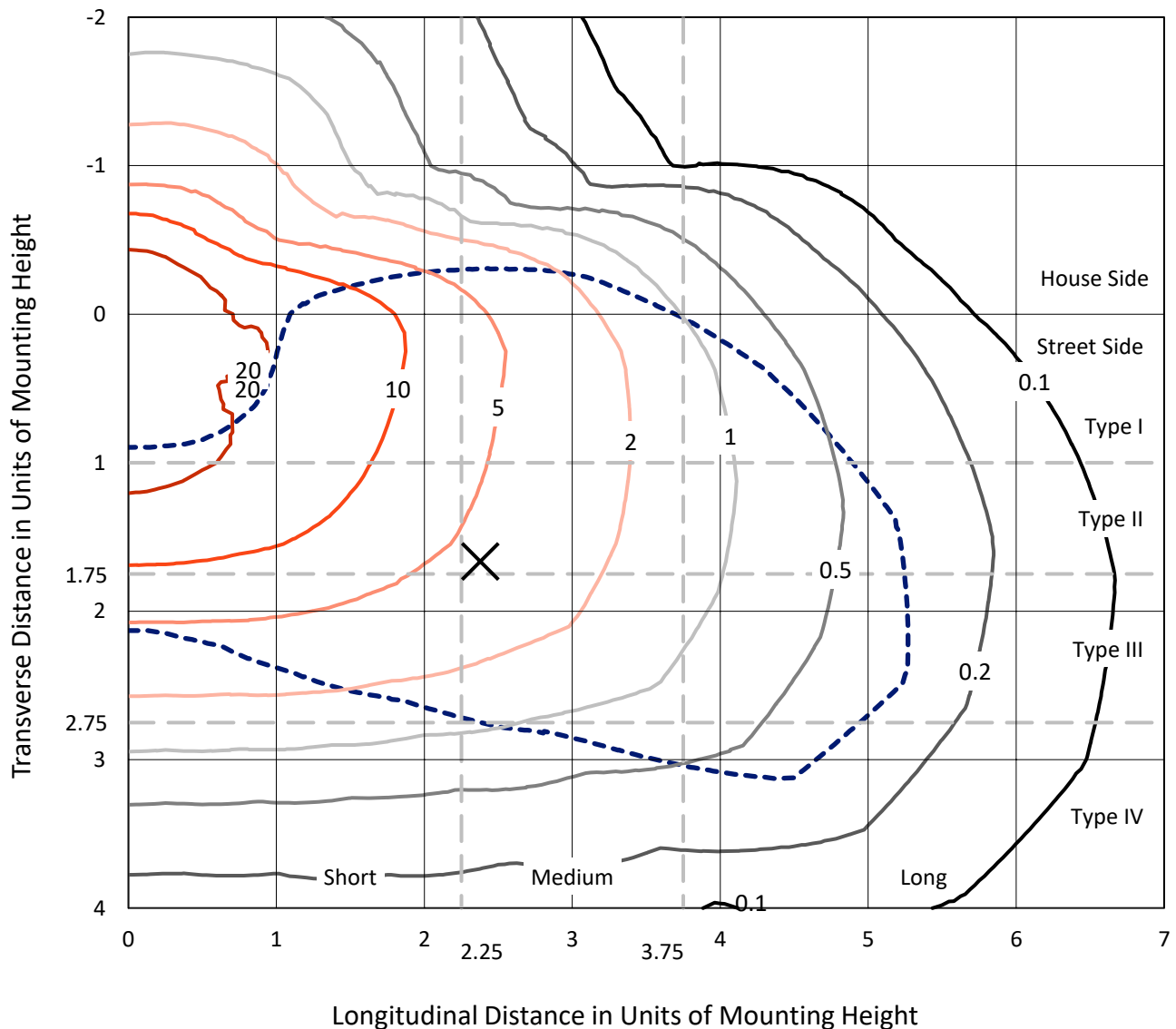


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

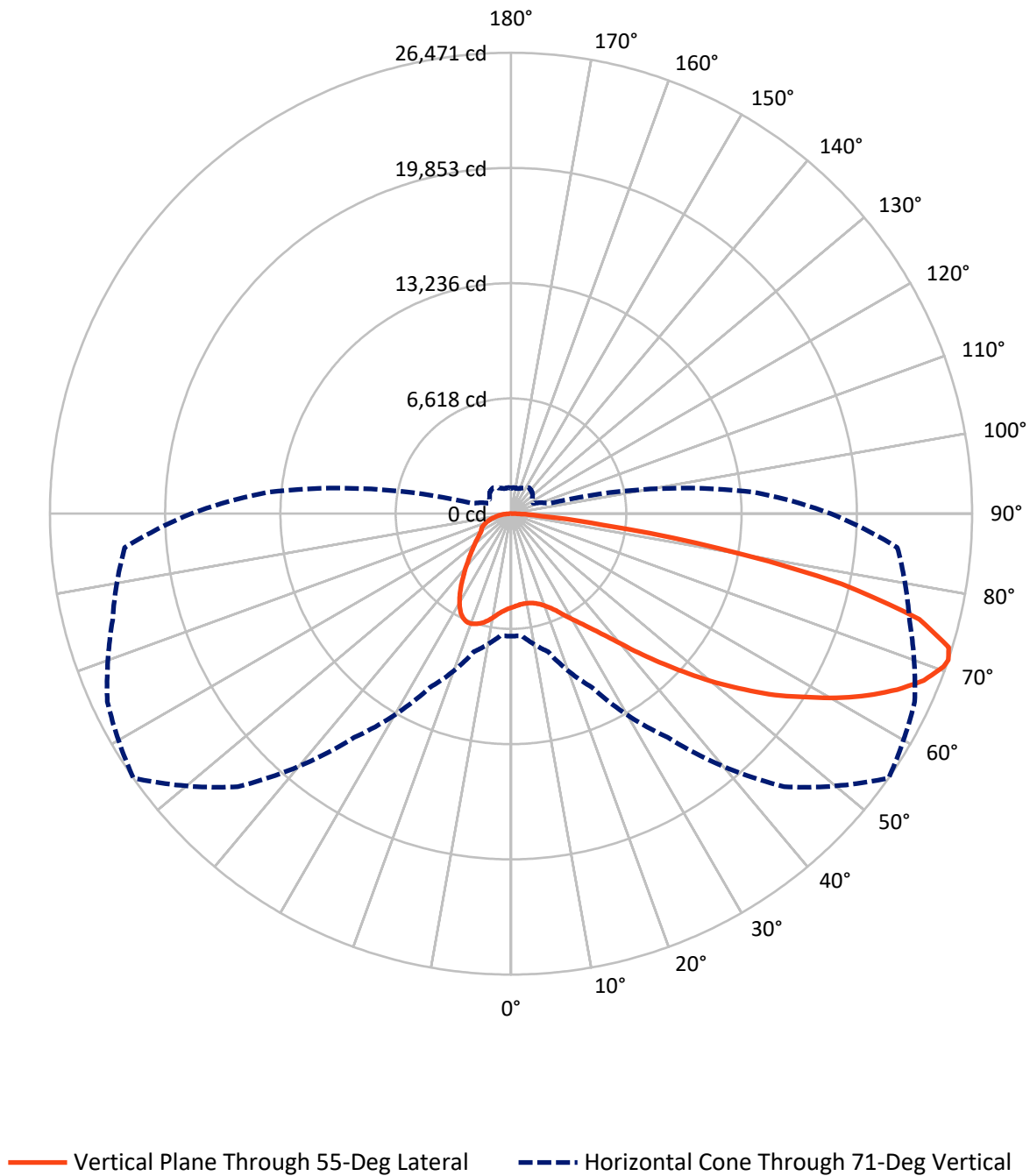


Based on 15 foot mounting height. Maximum calculated value = 26.6 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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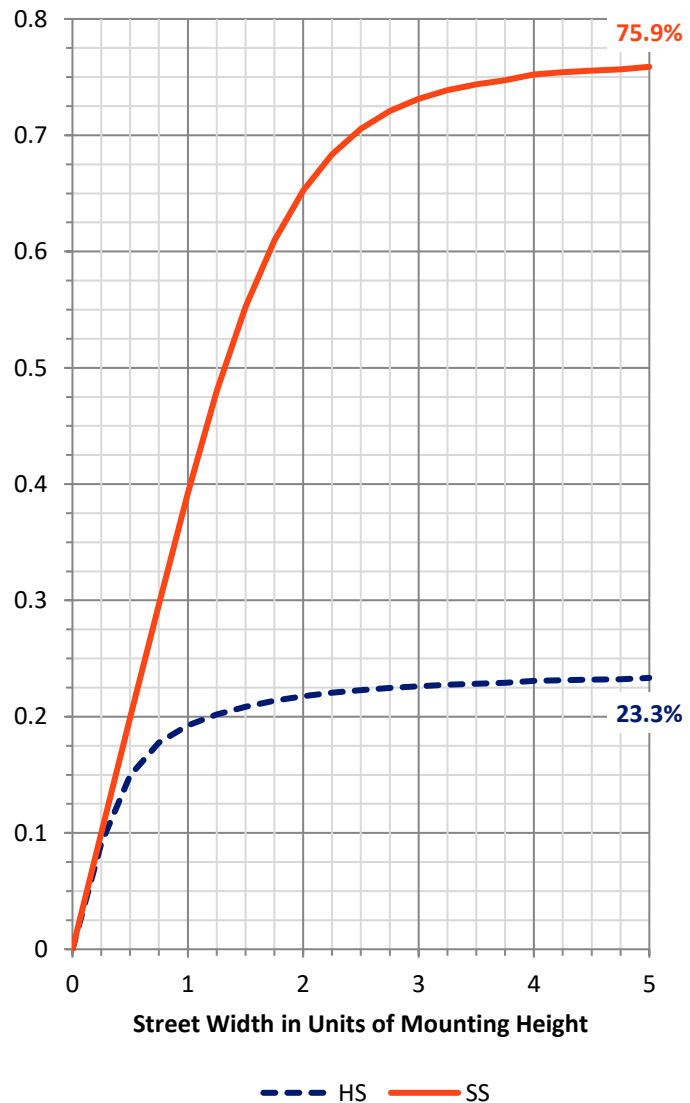
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11392.7	0.0	11392.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	36559.8	0.0	36559.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	47952.5	0.0	47952.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.1	1.1
10°-20°	1672.3	3.5
20°-30°	2948.1	6.1
30°-40°	4416.3	9.2
40°-50°	6911.0	14.4
50°-60°	10158.7	21.2
60°-70°	11898.3	24.8
70°-80°	8058.9	16.8
80°-90°	1362.5	2.8
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°	47952.5	100.0
0°-180°	47952.5	100.0

Coefficient of Utilization



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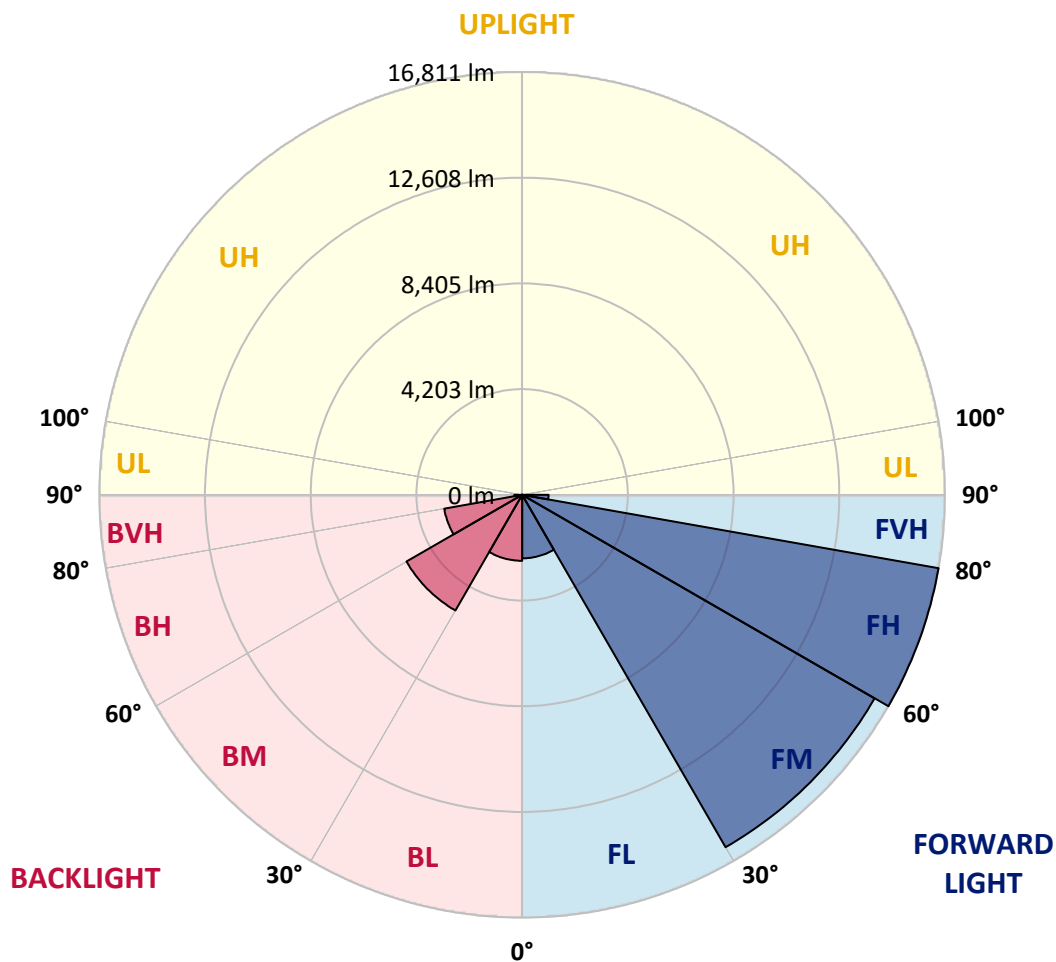
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2522.7	5.3			
FM	(30°-60°)	16178.1	33.7			
FH	(60°-80°)	16810.6	35.1			G5
FVH	(80°-90°)	1048.4	2.2			G5
BL	(0°-30°)	2623.9	5.5	B4/5000		
BM	(30°-60°)	5308.0	11.1	B4/8500		
BH	(60°-80°)	3146.7	6.6	B4/5000		G4/5000
BVH	(80°-90°)	314.2	0.7			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5397.0	5397.0	5397.0	5397.0	5397.0	5397.0	5397.0	5397.0	5397.0	5397.0	5397.0
2.5°	5315.5	5279.3	5280.5	5280.5	5275.9	5298.0	5309.6	5328.2	5345.8	5365.6	5385.4
5°	5179.2	5153.5	5161.7	5176.8	5186.1	5218.8	5245.6	5277.0	5306.2	5345.8	5372.6
7.5°	5048.6	5016.0	5041.7	5080.1	5108.1	5174.5	5223.4	5272.3	5315.5	5377.2	5416.8
10°	4979.9	4950.8	4982.2	5031.2	5076.6	5155.8	5229.3	5305.0	5381.9	5483.3	5532.2
12.5°	5003.2	4974.1	4998.5	5048.6	5095.2	5175.6	5261.8	5380.7	5492.6	5616.1	5680.1
15°	5115.0	5088.2	5104.5	5139.5	5166.3	5238.6	5344.6	5491.4	5630.1	5775.7	5843.3
17.5°	5367.9	5331.8	5314.3	5295.7	5300.3	5350.4	5472.8	5645.2	5801.3	5959.8	6027.4
20°	5739.5	5697.7	5663.8	5570.7	5513.5	5553.1	5661.5	5835.2	6001.8	6161.3	6227.7
22.5°	6252.3	6185.9	6113.6	5952.8	5837.4	5828.1	5895.7	6065.8	6226.6	6372.3	6450.4
25°	6742.8	6689.2	6615.8	6415.4	6237.1	6171.8	6215.0	6355.9	6488.8	6594.8	6662.4
27.5°	7312.5	7233.3	7097.0	6902.4	6700.8	6586.7	6627.4	6727.6	6824.3	6866.3	6905.9
30°	7925.4	7845.0	7700.6	7430.2	7192.6	7064.4	7072.5	7220.5	7246.1	7196.0	7215.8
32.5°	8716.6	8636.2	8464.9	8101.4	7789.1	7594.5	7580.5	7684.2	7686.6	7586.3	7581.7
35°	9718.6	9617.2	9373.7	8931.0	8516.1	8221.3	8195.7	8291.3	8298.2	8171.2	8132.8
37.5°	10837.1	10771.9	10544.7	9917.9	9372.5	9029.9	8937.9	9106.9	9155.9	8979.9	8900.7
40°	12115.4	12060.5	11897.5	11110.9	10423.5	10028.5	9905.0	10079.8	10190.5	10009.9	9906.2
42.5°	13547.3	13489.1	13155.8	12407.8	11705.2	11197.2	11071.3	11212.3	11457.0	11128.5	10926.8
45°	15098.1	15051.5	14516.7	13882.9	13175.6	12696.7	12336.7	12433.4	12696.7	12425.3	12075.7
47.5°	16307.5	16195.7	15824.0	15408.0	14877.9	14279.0	13726.8	13760.5	13973.7	13712.8	13174.4
50°	17204.7	17176.7	16872.6	16662.9	16668.7	16127.0	15254.2	15133.1	15353.3	15007.2	14362.9
52.5°	18000.5	17903.8	17647.5	17734.9	18261.5	18148.5	16774.8	16502.1	16791.1	16400.8	15582.9
55°	18168.3	17964.4	18093.7	18600.6	19597.9	19799.6	18386.2	18049.5	18277.9	17908.5	16848.2
57.5°	17746.5	17717.4	18175.3	19092.3	20629.2	20995.0	19874.1	19588.6	19605.0	19392.9	18084.4
60°	16725.9	16827.2	17836.3	19254.3	21444.7	22065.8	21485.5	21112.7	20927.4	20921.6	19236.7
62.5°	15129.6	15303.2	16662.9	18903.6	21674.3	22910.5	22980.4	22573.8	22150.8	22228.9	20174.7
65°	13092.9	13116.2	14656.5	17815.3	21134.8	23490.8	24365.8	23878.8	23180.9	23305.5	20664.1
67.5°	10714.8	10723.0	12171.3	15549.0	19855.5	23680.7	25557.7	24833.0	23766.9	23665.5	20433.4
70°	8127.0	8152.6	9281.7	12509.1	17194.3	22965.3	26344.3	25462.2	23846.2	22953.6	19203.0
71°	7029.4	7032.9	8199.3	11010.8	15687.7	22178.8	26471.3	25569.4	23685.4	22261.6	18353.6
72.5°	5256.0	5247.9	6263.9	8652.5	13095.2	20314.5	26280.1	25468.0	23226.3	20789.9	16686.3
75°	2759.1	2764.9	3314.9	5012.5	8313.4	15368.4	24209.7	23955.7	21343.4	17129.0	12990.4
77.5°	1443.6	1444.8	1746.6	2527.2	4327.4	9111.5	19403.4	20257.5	17776.8	12170.1	8537.1
80°	962.4	968.3	1129.0	1503.0	2373.4	3881.2	12138.6	13809.5	11949.9	6949.0	4450.9
82.5°	706.1	710.7	848.2	1032.3	1600.9	1724.4	5341.1	7170.4	5838.6	2945.5	1824.6
85°	542.9	545.3	663.0	709.6	1059.2	954.2	1731.4	2902.4	2268.6	602.4	510.4
87.5°	277.3	299.4	431.1	389.2	518.5	377.5	601.2	675.8	579.1	200.4	163.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5397.0	5397.0	5397.0	5397.0	5397.0	5397.0	5397.0	5397.0	5397.0	5397.0
2.5°	5401.7	5441.3	5466.9	5480.9	5510.0	5540.4	5581.1	5598.6	5609.1	5568.3
5°	5404.0	5478.6	5543.8	5610.3	5686.0	5752.4	5830.5	5872.4	5889.9	5846.7
7.5°	5464.6	5572.9	5680.1	5787.3	5903.9	5993.6	6101.9	6160.2	6197.4	6162.5
10°	5601.0	5753.6	5899.2	6025.0	6136.9	6226.6	6319.8	6375.7	6410.7	6368.8
12.5°	5768.7	5959.8	6133.4	6269.7	6367.6	6424.7	6484.1	6514.4	6537.7	6499.3
15°	5942.3	6162.5	6349.0	6470.2	6519.1	6551.7	6566.9	6566.9	6577.4	6533.0
17.5°	6143.9	6366.4	6542.4	6613.5	6623.9	6593.6	6570.3	6540.0	6519.1	6476.0
20°	6347.8	6564.5	6714.9	6714.9	6627.4	6529.5	6435.2	6371.1	6337.3	6293.0
22.5°	6561.0	6760.3	6841.8	6725.3	6503.9	6322.2	6195.2	6097.3	6063.5	6022.7
25°	6769.6	6949.0	6909.4	6605.3	6266.2	5993.6	5823.5	5729.1	5683.6	5653.3
27.5°	6994.5	7125.0	6888.4	6372.3	5887.5	5596.3	5408.7	5281.6	5219.9	5182.6
30°	7290.4	7299.8	6773.1	5999.4	5441.3	5099.9	4900.6	4765.5	4729.4	4700.3
32.5°	7632.9	7461.7	6561.0	5546.1	4930.9	4569.7	4378.7	4300.6	4248.2	4234.2
35°	8156.1	7624.8	6275.5	5077.8	4398.5	4079.2	3914.9	3829.9	3756.4	3730.8
37.5°	8829.6	7767.0	5898.0	4561.6	3933.6	3657.5	3515.3	3382.5	3260.1	3233.3
40°	9616.0	7898.6	5458.8	4118.8	3554.9	3335.8	3171.5	2982.8	2803.4	2775.4
42.5°	10449.1	7984.8	5014.9	3694.7	3274.1	3077.2	2855.8	2634.4	2475.9	2430.5
45°	11312.5	7969.7	4544.1	3334.7	3053.9	2838.3	2599.5	2397.9	2251.1	2224.3
47.5°	12072.2	7864.8	4125.9	3028.3	2839.5	2634.4	2404.9	2226.6	2102.0	2075.2
50°	12868.1	7699.4	3765.8	2759.1	2647.2	2475.9	2256.9	2104.3	1988.9	1964.5
52.5°	13586.9	7537.4	3349.8	2519.1	2487.6	2353.6	2166.0	2054.2	1912.0	1879.4
55°	14311.7	7392.9	2929.2	2298.9	2358.3	2268.6	2136.9	2075.2	1921.3	1872.4
57.5°	15084.2	7197.2	2542.4	2122.9	2250.0	2261.5	2184.6	2128.7	1981.9	1913.2
60°	15812.4	6815.0	2219.6	1992.4	2204.5	2331.5	2192.8	2006.4	1909.7	1848.0
62.5°	16363.5	6109.0	1992.4	1922.5	2234.8	2314.0	2048.3	1854.9	1809.5	1775.7
65°	16503.3	4993.9	1795.5	1852.6	2138.1	2168.4	1913.2	1741.9	1748.9	1721.0
67.5°	16026.8	3729.7	1625.4	1712.8	1954.0	2009.9	1790.9	1635.9	1696.4	1667.3
70°	14747.4	2618.1	1469.3	1560.1	1789.7	1870.1	1673.2	1527.6	1571.8	1531.0
71°	14033.2	2265.1	1408.7	1493.7	1723.3	1814.1	1623.1	1484.4	1505.4	1454.1
72.5°	12498.6	1853.8	1319.0	1392.3	1619.6	1727.9	1555.5	1406.3	1386.5	1352.7
75°	8991.5	1399.4	1164.0	1218.7	1446.0	1578.8	1412.1	1277.0	1219.9	1200.1
77.5°	5384.2	1084.8	995.0	1034.7	1282.9	1414.5	1267.7	1137.2	1087.1	1067.3
80°	2464.3	850.6	817.9	849.4	1095.3	1250.2	1132.5	1007.9	946.1	920.5
82.5°	1009.1	645.5	623.3	663.0	911.2	1067.3	971.8	851.7	816.7	729.4
85°	467.2	424.2	419.5	452.1	640.8	785.3	713.1	623.3	532.4	516.2
87.5°	212.0	198.1	170.1	209.8	325.1	447.4	410.1	350.7	216.7	207.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)