

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-8540-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-8540-U-T2R
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 85 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: 48484.2 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - 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

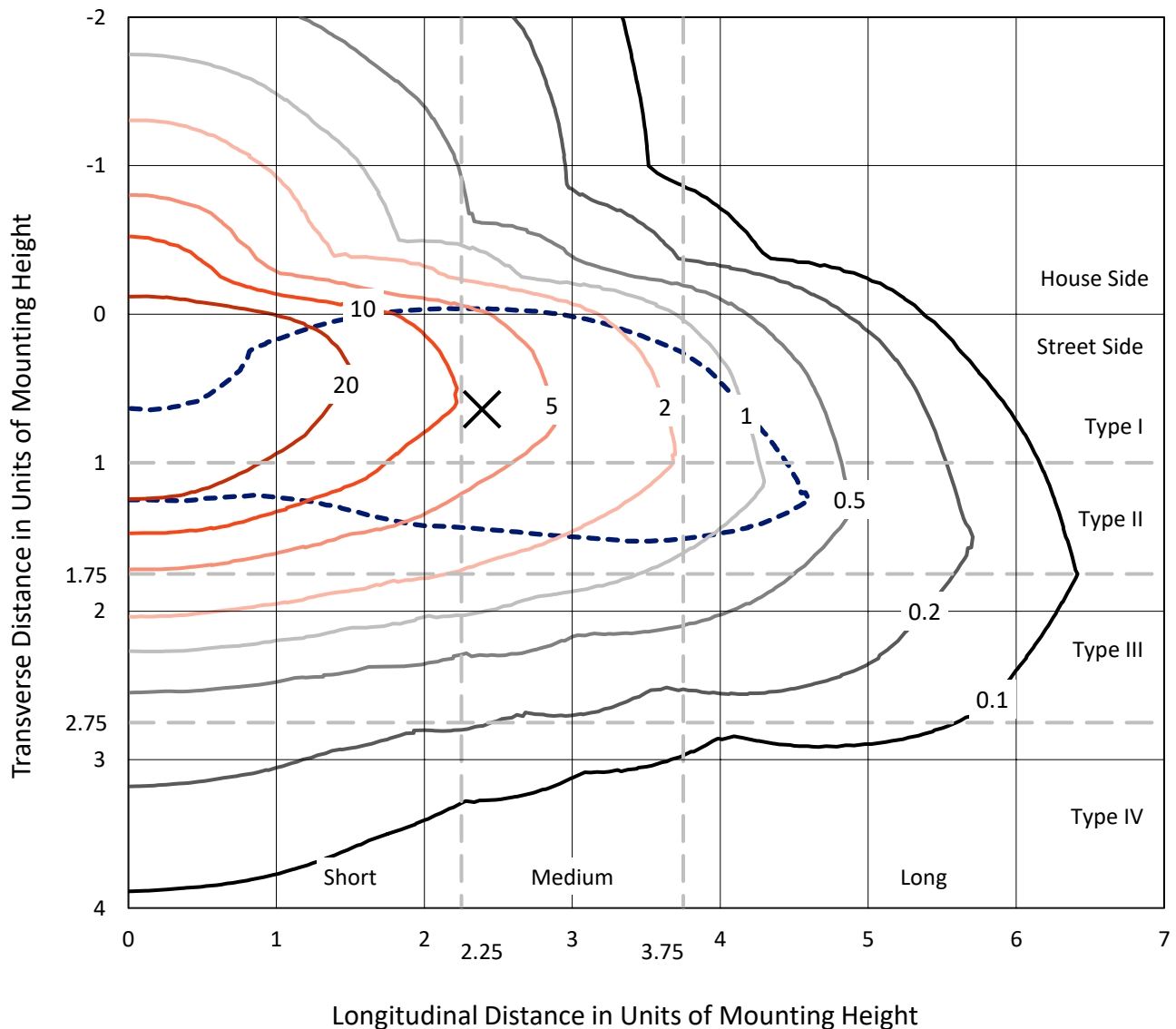


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

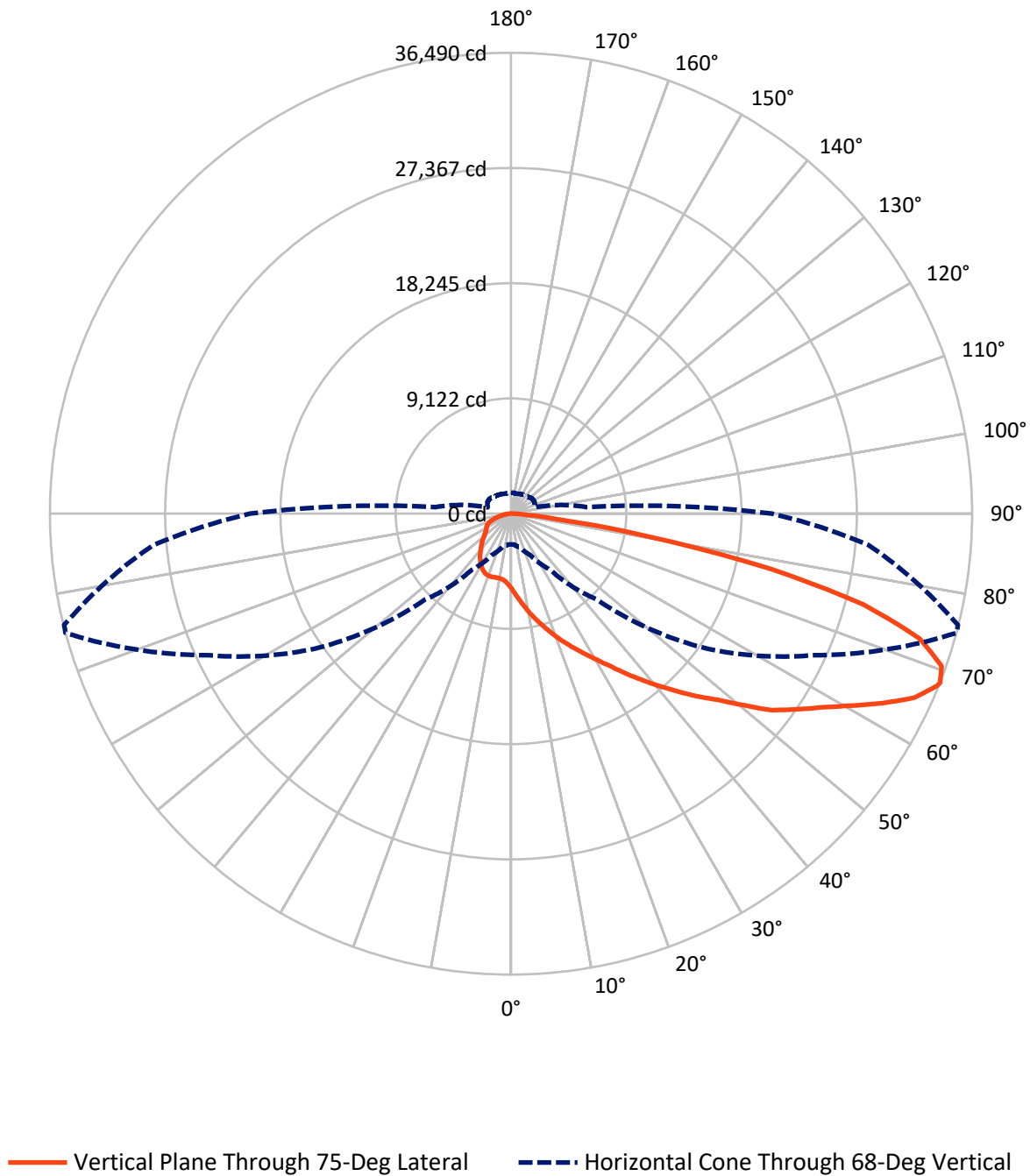


Based on 15 foot mounting height. Maximum calculated value = 49 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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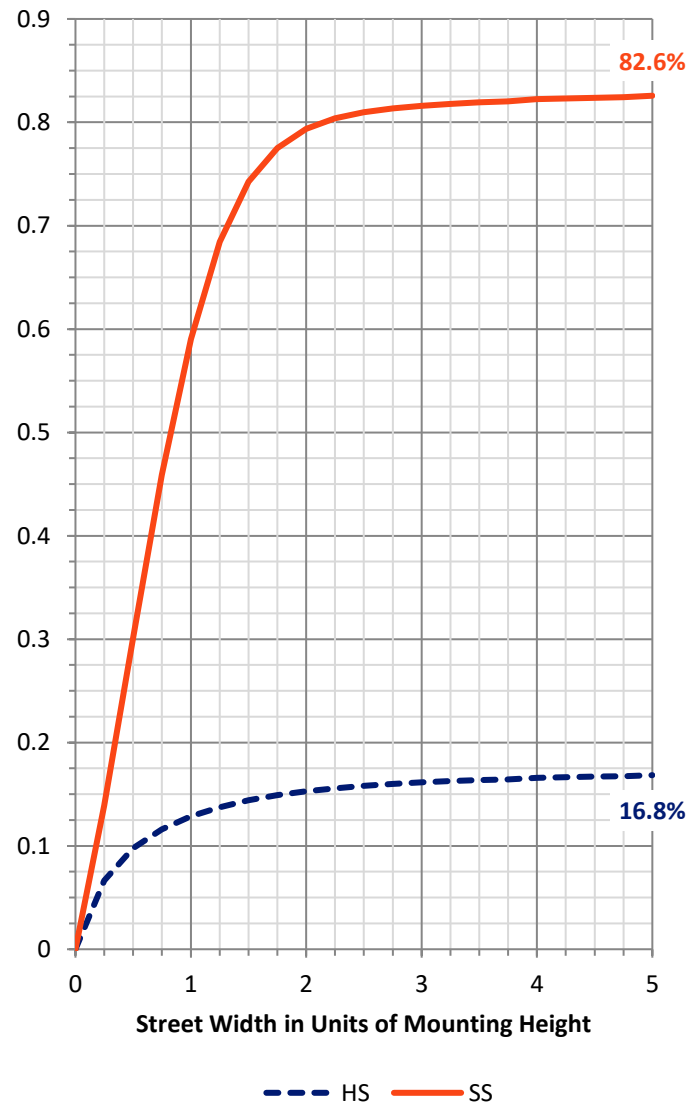
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8299.9	0.0	8299.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	40184.3	0.0	40184.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	48484.2	0.0	48484.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.6	1.3
10°-20°	2131.1	4.4
20°-30°	3946.3	8.1
30°-40°	6431.1	13.3
40°-50°	9065.5	18.7
50°-60°	10426.6	21.5
60°-70°	9481.9	19.6
70°-80°	5505.7	11.4
80°-90°	873.4	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°	48484.2	100.0
0°-180°	48484.2	100.0

Coefficient of Utilization



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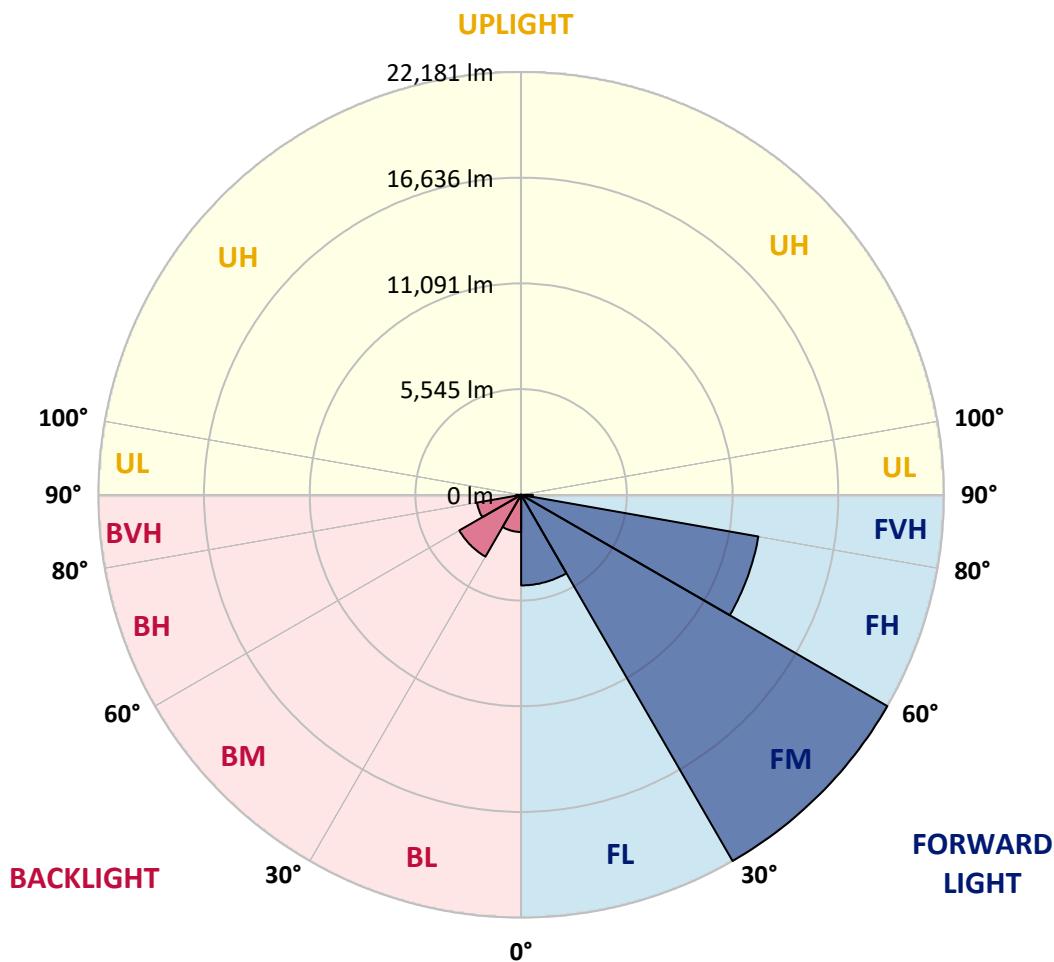
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4750.9	9.8			
FM	(30°-60°)	22181.1	45.7			
FH	(60°-80°)	12635.2	26.1			G5
FVH	(80°-90°)	617.1	1.3			G4/750
BL	(0°-30°)	1949.2	4.0	B3/2500		
BM	(30°-60°)	3742.0	7.7	B3/5000		
BH	(60°-80°)	2352.4	4.9	B3/2500		G3/2500
BVH	(80°-90°)	256.2	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5923.7	5923.7	5923.7	5923.7	5923.7	5923.7	5923.7	5923.7	5923.7	5923.7	5923.7
2.5°	7536.3	7388.3	7367.3	7348.7	7212.4	7005.0	6871.0	6597.2	6361.8	6323.4	6093.9
5°	8604.8	8519.7	8462.6	8406.7	8242.4	8071.1	7741.4	7314.9	6840.7	6774.3	6308.2
7.5°	9216.5	9143.1	9116.3	9081.3	8966.0	8805.1	8497.6	8004.7	7362.7	7292.8	6584.4
10°	9783.9	9683.7	9663.9	9651.1	9574.2	9425.0	9192.0	8685.2	7939.5	7825.3	6937.4
12.5°	10281.4	10202.2	10213.8	10202.2	10178.9	10091.5	9869.0	9366.8	8533.7	8404.3	7303.3
15°	10615.8	10522.7	10605.3	10700.9	10753.3	10759.1	10554.1	10058.9	9115.1	8998.6	7715.8
17.5°	10787.2	10690.5	10815.1	10999.2	11215.9	11324.3	11239.2	10786.0	9768.8	9622.0	8159.6
20°	11135.5	11019.0	11133.2	11307.9	11612.0	11840.4	11920.9	11538.7	10446.9	10280.2	8626.9
22.5°	11883.5	11756.5	11789.2	11854.4	12090.9	12338.0	12510.4	12299.5	11139.0	10960.7	9109.3
25°	13179.2	13063.9	12912.4	12762.1	12807.5	12921.7	13048.7	13054.6	11857.9	11656.4	9609.1
27.5°	14987.6	14713.7	14444.6	14034.4	13788.6	13674.4	13623.2	13796.8	12613.0	12405.5	10096.2
30°	16804.0	16548.9	16153.9	15629.5	15054.0	14704.4	14350.2	14512.2	13429.7	13196.7	10596.0
32.5°	18375.8	18127.7	17725.7	17134.9	16453.3	15969.8	15267.2	15270.7	14374.7	14083.4	11184.5
35°	19757.8	19419.9	19013.2	18398.0	17731.5	17142.0	16345.0	16084.0	15476.9	15149.5	11896.4
37.5°	20797.1	20441.7	20025.8	19419.9	18827.9	18388.7	17527.6	16978.8	16653.8	16348.5	12680.5
40°	21491.5	21135.0	20759.8	20216.8	19724.0	19465.3	18913.0	17992.6	17881.8	17534.6	13543.9
42.5°	21806.2	21462.4	21223.5	20768.0	20400.9	20369.4	20103.8	19132.1	19203.2	18844.2	14492.4
45°	21676.8	21375.0	21259.6	21017.3	20825.1	21038.3	21303.9	20338.0	20600.2	20260.0	15503.7
47.5°	21058.1	20818.1	20898.4	20904.3	20955.6	21506.7	22253.6	21597.6	22011.2	21676.8	16735.3
50°	19767.1	19638.9	20039.7	20428.9	20771.4	21751.3	23128.6	22980.6	23838.2	23464.2	18279.1
52.5°	16945.1	17124.4	18283.8	19261.4	20232.0	21721.0	23827.7	24504.7	25833.0	25463.6	19806.7
55°	13447.2	13645.3	15112.2	17287.6	19151.9	21366.8	24215.7	25590.6	27354.7	27089.0	21164.1
57.5°	10791.8	10922.3	11961.6	14414.3	17197.9	20529.1	24421.9	26414.3	28927.6	28638.7	22720.8
60°	8587.3	8728.3	9501.9	11365.1	14502.9	18966.6	24376.5	27121.6	30853.6	30600.8	24452.2
62.5°	6479.5	6432.9	7104.0	8666.6	11578.3	16561.7	23696.0	27606.3	33020.8	32832.1	26148.7
65°	4122.3	4284.3	4838.9	6053.1	8706.1	13526.4	22039.2	27570.2	35098.4	35006.3	27553.9
67.5°	2668.2	2663.6	3033.0	3983.7	5934.2	10257.0	19181.0	26789.6	36367.2	36333.5	28382.3
68°	2445.7	2444.5	2763.8	3615.5	5432.0	9605.6	18465.6	26499.4	36489.6	36451.2	28384.7
70°	1922.5	1920.2	2061.2	2437.6	3725.0	7097.0	15027.2	24788.9	36154.0	36145.9	27754.3
72.5°	1662.7	1658.0	1700.0	1788.5	2291.9	4523.2	10494.7	21407.6	33828.3	33708.3	25611.5
75°	1493.7	1487.9	1513.5	1508.9	1662.7	2767.3	6487.6	17282.9	28837.9	28466.2	20085.2
77.5°	1320.1	1313.2	1337.6	1335.2	1407.5	1858.5	3564.2	12377.6	20989.3	19770.6	12449.9
80°	1124.4	1118.6	1147.7	1154.7	1235.1	1398.2	1842.2	7658.7	10925.7	9968.0	5222.3
82.5°	891.4	900.7	952.0	970.6	1053.3	1014.8	1144.2	3563.1	3933.6	3455.9	1600.9
85°	562.7	590.8	720.0	749.2	814.5	649.0	790.0	1444.8	1268.9	1145.4	423.0
87.5°	209.8	233.0	412.5	415.9	414.8	262.1	403.2	510.4	407.8	369.3	131.7
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°	5923.7	5923.7	5923.7	5923.7	5923.7	5923.7	5923.7	5923.7	5923.7	5923.7	5923.7
2.5°	5985.5	5837.5	5617.2	5414.5	5247.9	5116.3	4984.6	4932.2	4879.7	4871.6	4816.8
5°	6063.6	5800.2	5387.7	5074.3	4857.6	4707.3	4611.7	4569.8	4541.8	4531.4	4483.5
7.5°	6205.7	5821.2	5253.8	4889.1	4694.5	4604.7	4573.3	4569.8	4568.6	4570.9	4517.4
10°	6413.1	5908.6	5202.5	4829.6	4688.6	4646.7	4646.7	4658.4	4658.4	4666.5	4614.1
12.5°	6648.5	6017.0	5188.5	4838.9	4737.5	4706.1	4701.4	4709.6	4697.9	4700.3	4647.9
15°	6909.4	6146.2	5201.3	4868.1	4767.8	4720.1	4685.2	4668.8	4637.4	4623.4	4575.6
17.5°	7203.1	6297.7	5222.3	4876.2	4744.6	4660.7	4580.3	4524.3	4476.6	4470.8	4413.7
20°	7521.2	6460.8	5230.4	4835.4	4656.0	4523.2	4403.2	4320.4	4250.5	4220.2	4179.4
22.5°	7867.2	6625.1	5190.8	4716.6	4492.9	4319.3	4170.1	4061.8	3962.8	3927.8	3875.4
25°	8220.2	6775.5	5101.1	4554.6	4273.8	4073.4	3883.5	3742.5	3629.5	3582.9	3535.1
27.5°	8562.8	6893.1	4956.6	4341.4	4033.8	3800.8	3577.1	3405.8	3288.1	3249.7	3208.9
30°	8904.2	6989.8	4750.4	4110.8	3789.1	3522.3	3281.1	3115.6	3014.3	2952.5	2912.9
32.5°	9316.7	7087.7	4544.1	3873.0	3537.4	3248.5	3039.9	2911.7	2785.9	2712.5	2676.4
35°	9797.9	7197.3	4304.2	3630.7	3277.6	3015.5	2888.5	2721.9	2571.5	2515.6	2486.5
37.5°	10360.7	7303.3	4054.8	3387.2	3027.1	2867.5	2764.9	2561.0	2446.9	2414.2	2393.2
40°	10989.9	7400.0	3762.3	3147.1	2799.9	2759.1	2629.8	2466.7	2379.3	2336.2	2312.8
42.5°	11679.6	7479.2	3523.5	2895.5	2621.6	2628.6	2513.3	2418.9	2296.5	2245.3	2225.4
45°	12461.4	7599.2	3298.6	2647.2	2471.3	2471.3	2428.2	2329.2	2222.0	2190.5	2177.7
47.5°	13479.8	7765.9	3062.1	2438.7	2367.6	2329.2	2336.2	2213.9	2164.9	2134.6	2124.1
50°	14652.0	7899.8	2822.0	2294.2	2296.5	2243.0	2199.8	2142.8	2108.9	2076.4	2055.4
52.5°	15729.8	7902.2	2627.4	2213.9	2231.3	2182.4	2092.6	2076.4	2053.0	2000.6	1984.3
55°	16737.6	7861.4	2462.0	2171.9	2171.9	2118.2	2033.2	2019.2	1989.0	1937.7	1927.2
57.5°	17887.6	7816.0	2340.9	2157.9	2136.9	2036.7	1989.0	1971.4	1922.5	1892.2	1881.8
60°	19129.7	7748.3	2251.1	2160.2	2117.1	1971.4	1950.5	1923.7	1873.6	1851.5	1842.2
62.5°	20373.0	7552.6	2177.7	2168.4	2105.5	1937.7	1912.0	1877.1	1823.5	1806.0	1796.7
65°	21044.1	7037.6	2086.9	2159.0	2091.5	1917.9	1868.9	1821.2	1748.9	1741.9	1727.9
67.5°	20836.7	6183.6	1944.7	2090.3	2071.7	1891.1	1813.0	1736.1	1647.5	1676.6	1662.7
68°	20649.1	5975.0	1908.6	2067.0	2064.7	1885.2	1800.2	1715.2	1626.6	1665.0	1641.7
70°	19391.9	5087.2	1731.4	1934.2	2008.8	1860.8	1735.0	1630.0	1529.9	1602.1	1566.0
72.5°	16646.7	3920.8	1454.1	1695.4	1866.6	1818.8	1648.7	1497.3	1385.4	1390.1	1345.7
75°	12374.1	2711.4	1168.6	1369.1	1644.1	1760.6	1547.4	1352.8	1212.9	1166.4	1147.7
77.5°	6767.3	1768.7	912.4	1039.4	1328.3	1608.0	1423.8	1194.3	1034.7	990.4	965.9
80°	2809.2	1049.8	707.3	766.7	921.7	1372.6	1333.0	1031.2	852.9	815.7	781.8
82.5°	929.8	643.2	524.3	519.7	602.4	1069.7	1175.7	812.1	654.8	681.6	563.9
85°	325.1	337.9	330.9	312.3	336.8	626.9	870.4	540.7	426.4	348.4	327.5
87.5°	90.9	122.3	123.5	97.9	100.2	144.5	392.7	247.0	150.3	100.2	88.6
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)