

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: P622605

Luminaire Tested: **PRV-M-PA6A-8540-U-T2U**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-PA6A-8540-U-T2U
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 85 CRI, 4000K LIGHT ENGINES AND TYPE II U OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32394.3 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 273.8
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

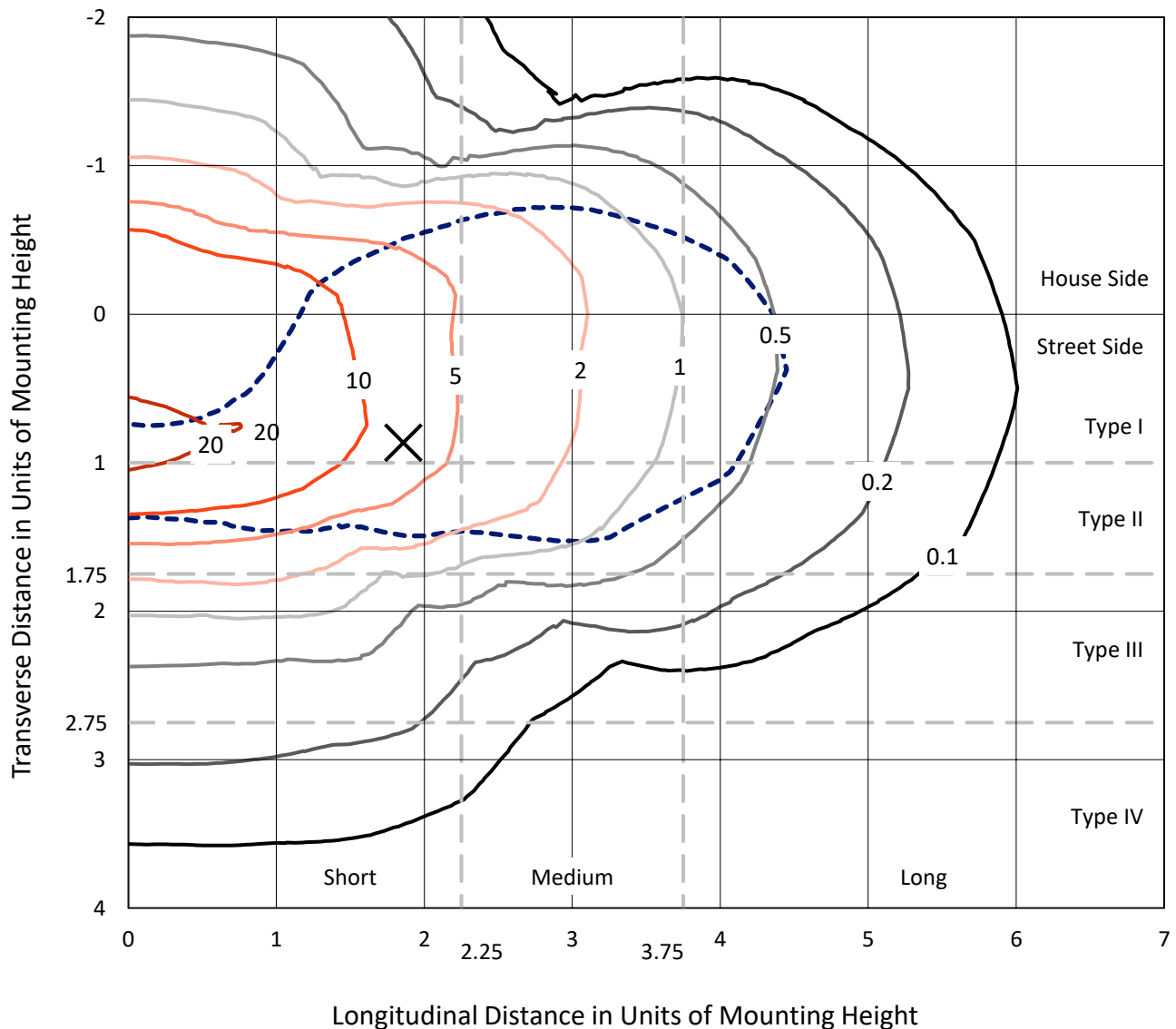


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

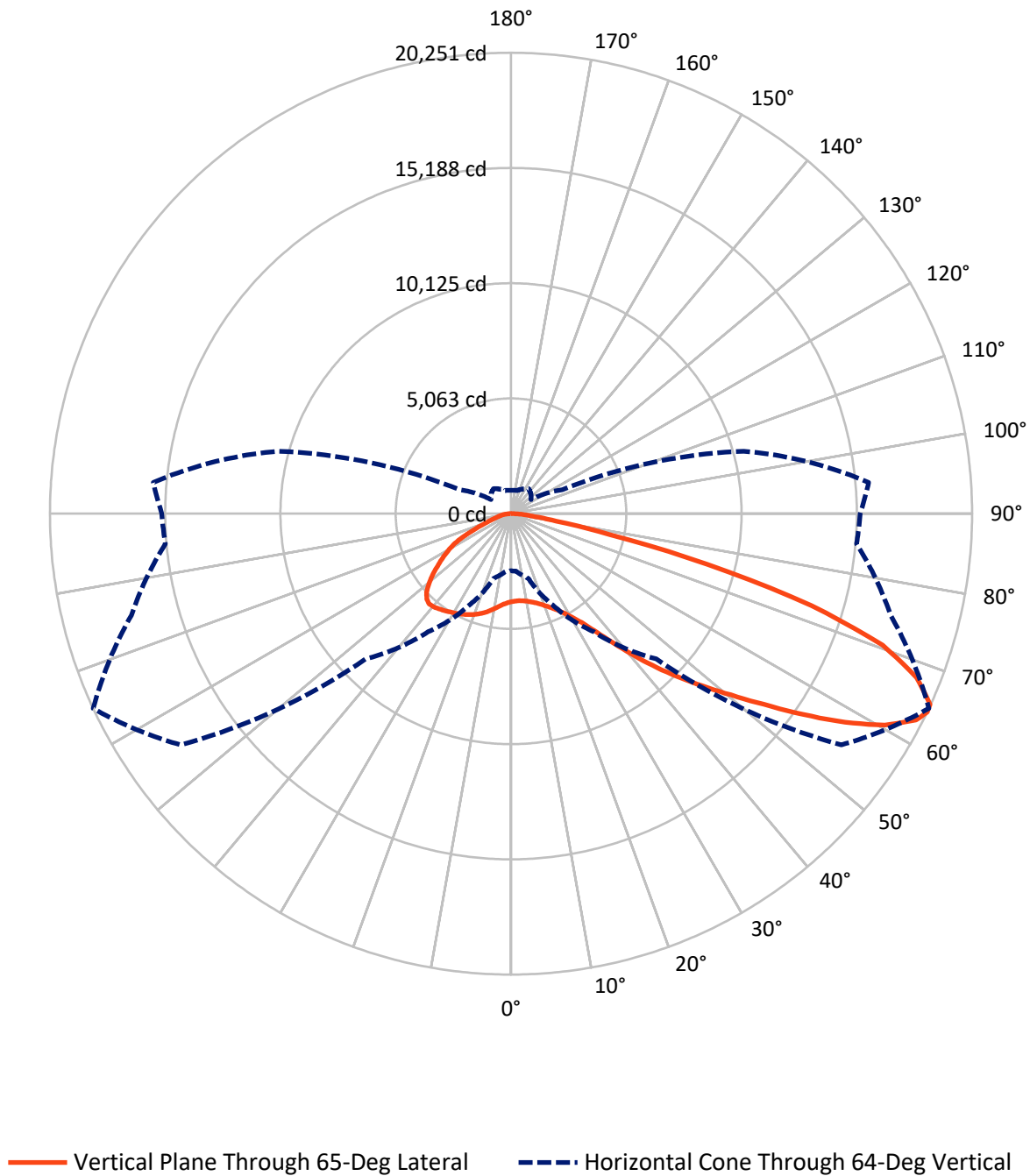


Based on 15 foot mounting height. Maximum calculated value = 23.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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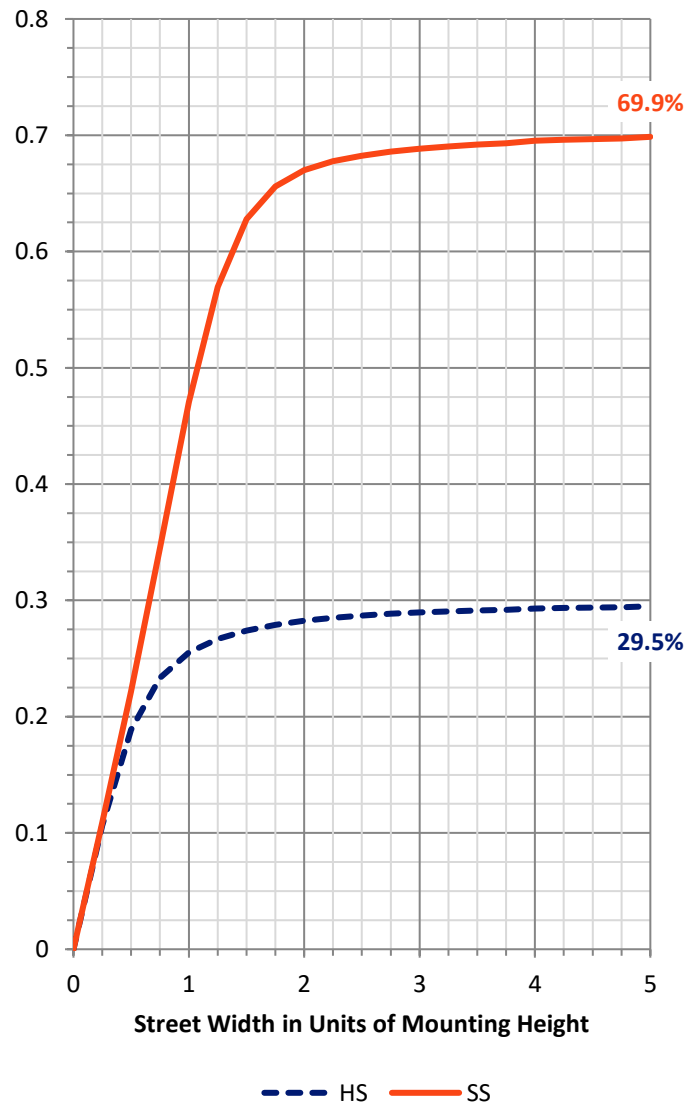
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9659.8	0.0	9659.8
	% Fixture	29.8	0.0	29.8
Street Side	Lumens	22734.5	0.0	22734.5
	% Fixture	70.2	0.0	70.2
Total	Lumens	32394.3	0.0	32394.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.4	1.2
10°-20°	1213.5	3.7
20°-30°	2180.6	6.7
30°-40°	3554.3	11.0
40°-50°	5925.3	18.3
50°-60°	7709.1	23.8
60°-70°	6954.2	21.5
70°-80°	3886.7	12.0
80°-90°	589.2	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°	32394.3	100.0
0°-180°	32394.3	100.0

Coefficient of Utilization



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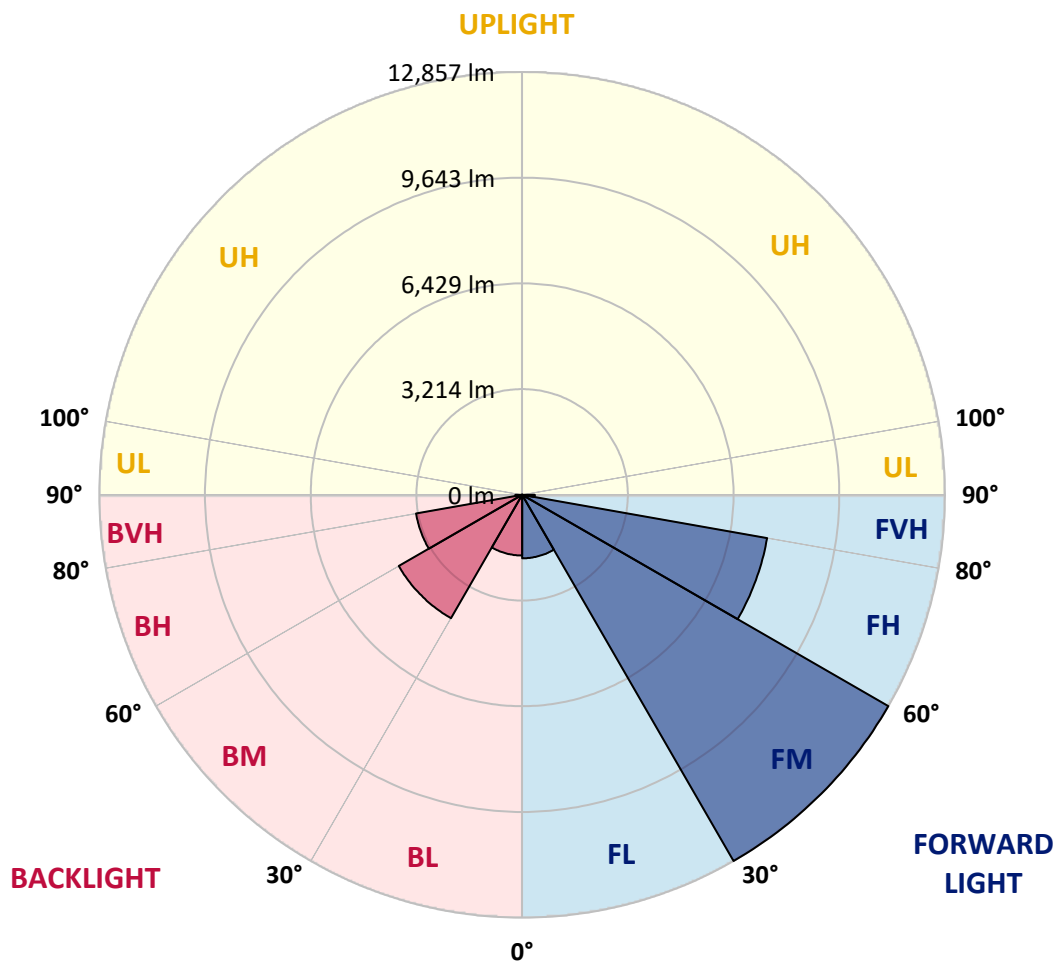
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1929.9	6.0			
FM	(30°-60°)	12857.1	39.7			
FH	(60°-80°)	7564.4	23.4			G4/12000
FVH	(80°-90°)	383.1	1.2			G3/500
BL	(0°-30°)	1845.6	5.7	B3/2500		
BM	(30°-60°)	4331.6	13.4	B3/5000		
BH	(60°-80°)	3276.5	10.1	B4/5000		G4/5000
BVH	(80°-90°)	206.1	0.6			G2/225
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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7
2.5°	3862.5	3832.0	3833.6	3833.6	3834.4	3835.9	3841.4	3845.3	3849.2	3856.3	3871.2
5°	3841.4	3813.2	3817.1	3819.5	3824.2	3829.7	3835.9	3839.0	3845.3	3860.2	3880.5
7.5°	3825.7	3797.6	3803.0	3806.9	3814.8	3828.1	3847.7	3863.3	3872.7	3893.1	3920.5
10°	3851.6	3819.5	3825.0	3823.4	3827.3	3848.4	3879.0	3911.9	3925.2	3951.8	3986.3
12.5°	3921.3	3889.2	3890.7	3879.0	3882.9	3906.4	3940.8	3981.6	3997.2	4025.4	4060.6
15°	4030.1	3986.3	3987.0	3977.6	3974.5	3997.2	4026.2	4063.8	4079.4	4108.4	4141.3
17.5°	4214.9	4174.2	4155.4	4114.7	4100.6	4120.1	4147.6	4178.9	4193.0	4204.7	4234.5
20°	4535.9	4485.8	4444.3	4365.2	4293.2	4277.5	4290.8	4319.8	4319.8	4313.5	4338.6
22.5°	4994.8	4947.8	4885.9	4747.3	4579.0	4494.4	4466.2	4484.2	4470.1	4442.7	4448.2
25°	5553.8	5456.7	5404.3	5235.1	4969.7	4791.2	4691.0	4678.4	4662.8	4618.1	4605.6
27.5°	6245.2	6154.4	6022.1	5785.6	5437.9	5174.8	4988.5	4930.6	4894.5	4811.5	4775.5
30°	7056.4	6917.8	6755.7	6424.5	5993.9	5641.5	5369.0	5266.5	5181.1	5035.5	4969.7
32.5°	7969.4	7814.3	7620.2	7190.3	6664.9	6211.5	5876.4	5701.8	5569.5	5380.0	5257.1
35°	9187.7	9039.0	8655.3	8161.2	7464.3	6900.6	6516.9	6307.8	6145.8	5892.9	5727.6
37.5°	10725.5	10456.2	9951.9	9347.5	8467.4	7756.4	7282.7	7110.4	6917.0	6587.4	6358.7
40°	12034.7	11763.0	11377.8	10695.0	9754.6	8894.9	8284.1	8058.6	7823.0	7380.6	7125.3
42.5°	13040.0	12768.3	12484.1	12028.4	11284.6	10409.2	9410.1	9116.5	8781.3	8228.5	7891.1
45°	13645.3	13341.5	13197.4	13112.0	12856.0	12867.7	10759.2	10193.9	9738.2	9116.5	8701.5
47.5°	13821.4	13498.8	13528.6	13790.9	14186.3	14640.5	12338.4	11298.7	10708.3	9948.8	9540.9
50°	13253.0	13014.9	13341.5	14135.4	15230.8	16013.8	14085.3	12516.2	11694.9	10865.7	10373.2
52.5°	11471.7	11467.0	12189.7	13757.2	15857.2	17243.1	15876.8	13913.8	12724.5	11759.9	11244.7
55°	9070.3	9067.9	10142.2	12207.0	15612.2	17706.7	17383.3	15565.2	13791.7	12627.4	12148.2
57.5°	6364.2	6579.5	7820.6	9748.4	13830.1	17370.8	18309.6	17293.3	14839.3	13475.4	13018.9
60°	4156.2	4243.9	5517.0	7610.0	10850.0	15582.4	18698.7	18865.5	15849.4	14215.3	13904.4
62.5°	2962.1	2980.9	3576.7	5685.4	7730.6	12105.2	18366.8	19970.3	16782.7	14885.5	14814.3
64°	2508.7	2537.7	2938.6	4493.6	6333.7	9028.0	17711.4	20250.7	17262.7	15236.3	15336.5
65°	2269.9	2297.3	2620.7	3787.4	5647.0	7308.5	16911.9	20226.4	17576.7	15442.2	15658.4
67.5°	1861.2	1863.5	2037.4	2601.1	4211.8	4276.0	12952.3	19217.9	17958.8	15753.9	16275.4
70°	1664.7	1673.3	1767.2	1970.0	3144.5	2860.3	7323.4	17319.1	17545.4	15623.9	16328.6
72.5°	1362.4	1387.5	1540.2	1702.2	2256.6	2004.5	3428.8	13797.2	15774.2	14874.6	15454.0
75°	1061.7	1079.8	1227.0	1501.8	1619.2	1498.7	1900.3	8911.3	12642.2	13193.5	13181.7
77.5°	799.4	817.5	943.5	1188.6	1440.7	1113.4	1281.0	4428.6	8736.7	9978.6	9493.1
80°	604.5	603.7	714.9	895.8	1176.1	835.5	865.2	2007.6	4994.0	5968.8	5269.6
82.5°	416.6	425.2	525.4	686.7	814.3	804.1	606.0	1039.0	2208.8	2511.9	2417.9
85°	292.1	288.1	371.9	452.6	537.1	581.8	405.6	584.1	956.0	500.3	445.5
87.5°	162.9	162.1	220.8	249.8	267.8	234.9	241.9	227.1	375.8	197.3	126.8
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°	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7
2.5°	3867.2	3889.9	3910.3	3929.1	3935.4	3953.4	3973.7	3978.4	3983.9	3942.4
5°	3886.8	3932.2	3982.3	4023.8	4060.6	4099.8	4147.6	4156.9	4177.3	4124.8
7.5°	3941.6	4009.0	4090.4	4159.3	4221.2	4277.5	4338.6	4361.3	4374.6	4323.7
10°	4015.2	4112.3	4214.1	4318.2	4393.4	4456.1	4504.6	4505.4	4519.5	4470.9
12.5°	4098.2	4218.0	4348.0	4463.1	4539.1	4571.2	4580.6	4553.1	4553.9	4501.5
15°	4181.2	4321.4	4478.8	4588.4	4623.6	4604.0	4579.0	4543.0	4536.7	4481.1
17.5°	4282.2	4431.8	4588.4	4674.5	4644.8	4586.8	4556.3	4513.2	4508.5	4450.6
20°	4380.1	4544.5	4693.3	4718.4	4618.9	4535.1	4492.1	4427.9	4416.1	4355.8
22.5°	4480.3	4647.9	4786.5	4722.3	4557.8	4427.1	4346.4	4259.5	4239.9	4186.7
25°	4610.3	4754.4	4866.3	4691.0	4434.9	4227.4	4106.1	4015.2	4005.0	3963.5
27.5°	4781.8	4896.9	4946.2	4622.0	4236.8	3951.8	3801.5	3718.5	3730.2	3678.5
30°	4944.6	5049.6	5019.0	4500.7	3953.4	3594.8	3467.1	3405.3	3425.6	3374.7
32.5°	5174.8	5233.6	5087.2	4323.7	3625.3	3255.7	3147.7	3060.7	3042.0	3030.2
35°	5596.9	5575.0	5166.2	4116.2	3295.6	2939.4	2782.8	2637.1	2602.7	2545.5
37.5°	6175.5	6066.7	5237.5	3891.5	2984.0	2617.6	2406.2	2240.9	2184.6	2139.9
40°	6846.6	6639.8	5315.0	3621.4	2694.3	2298.1	2104.7	1930.9	1869.8	1851.8
42.5°	7579.4	7207.5	5354.2	3254.1	2431.2	2097.7	1875.3	1717.1	1648.2	1614.5
45°	8355.4	7747.0	5278.2	2849.3	2226.1	1948.9	1708.5	1513.5	1435.2	1425.1
47.5°	9119.6	8176.9	5066.0	2495.4	2078.1	1838.5	1522.2	1393.7	1347.5	1332.7
50°	9980.1	8533.9	4741.8	2185.4	1947.3	1669.4	1431.3	1337.4	1299.8	1289.6
52.5°	10882.1	8833.8	4364.4	1947.3	1786.0	1569.1	1385.1	1284.1	1255.9	1247.3
55°	11839.7	9123.5	3956.5	1730.4	1592.6	1525.3	1342.8	1239.5	1219.9	1215.2
57.5°	12907.7	9459.4	3575.2	1494.0	1474.4	1483.0	1311.5	1208.2	1193.3	1190.2
60°	14003.1	9880.7	3211.1	1301.3	1381.2	1442.3	1279.4	1167.5	1140.0	1130.7
62.5°	15139.2	10345.8	2787.5	1148.7	1288.0	1387.5	1230.9	1101.7	1075.8	1063.3
64°	15769.5	10588.5	2479.8	1071.9	1234.8	1342.8	1188.6	1051.6	1032.8	1020.2
65°	16121.1	10722.4	2231.6	1028.1	1196.4	1308.4	1154.9	1014.0	1006.2	992.1
67.5°	16620.7	10770.9	1668.6	934.9	1087.6	1201.1	1053.9	928.6	948.2	922.4
70°	16251.9	10310.5	1202.7	848.8	967.0	1078.2	961.5	839.4	863.6	821.4
72.5°	14808.8	8931.7	908.3	755.6	844.1	952.1	855.0	739.9	721.9	693.0
75°	11894.6	6641.4	719.6	666.3	727.4	822.2	747.0	633.4	594.3	580.2
77.5°	8379.7	3926.7	581.8	570.8	617.8	685.1	638.9	538.7	487.8	484.7
80°	4566.5	1727.3	474.5	470.6	499.6	559.8	536.4	446.3	391.5	378.2
82.5°	1727.3	739.9	360.2	364.1	385.2	433.0	419.7	339.8	312.4	259.2
85°	440.0	364.9	234.1	235.7	231.8	285.0	280.3	221.6	188.7	173.0
87.5°	176.2	136.2	87.7	95.5	90.8	131.5	133.9	104.9	64.2	55.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)