

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: P622609

Luminaire Tested: **PRV-M-PA6A-8540-U-T4W**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-12)
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-T4W
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 85 CRI, 4000K LIGHT ENGINES AND TYPE IV OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32265.1 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

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

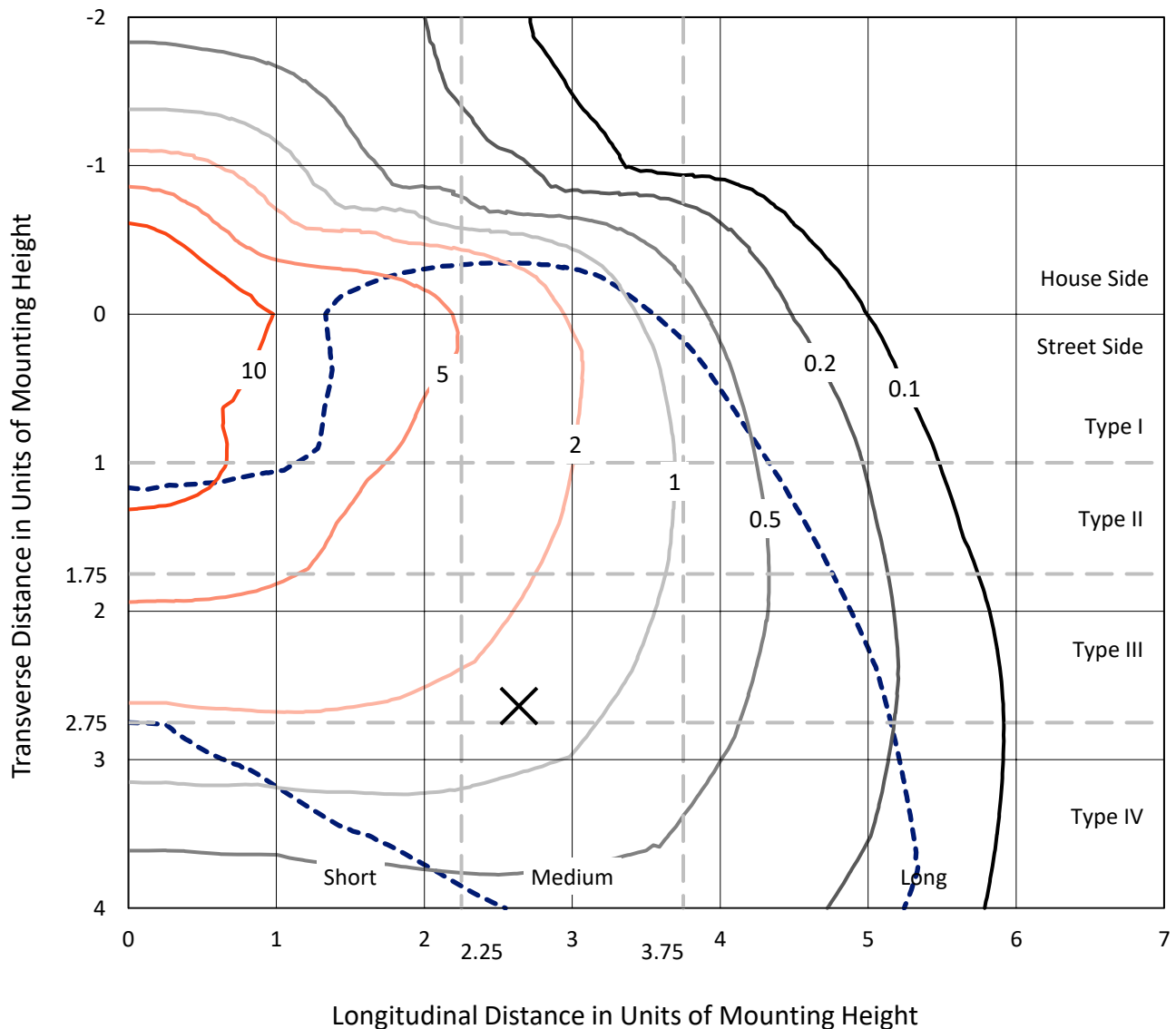


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

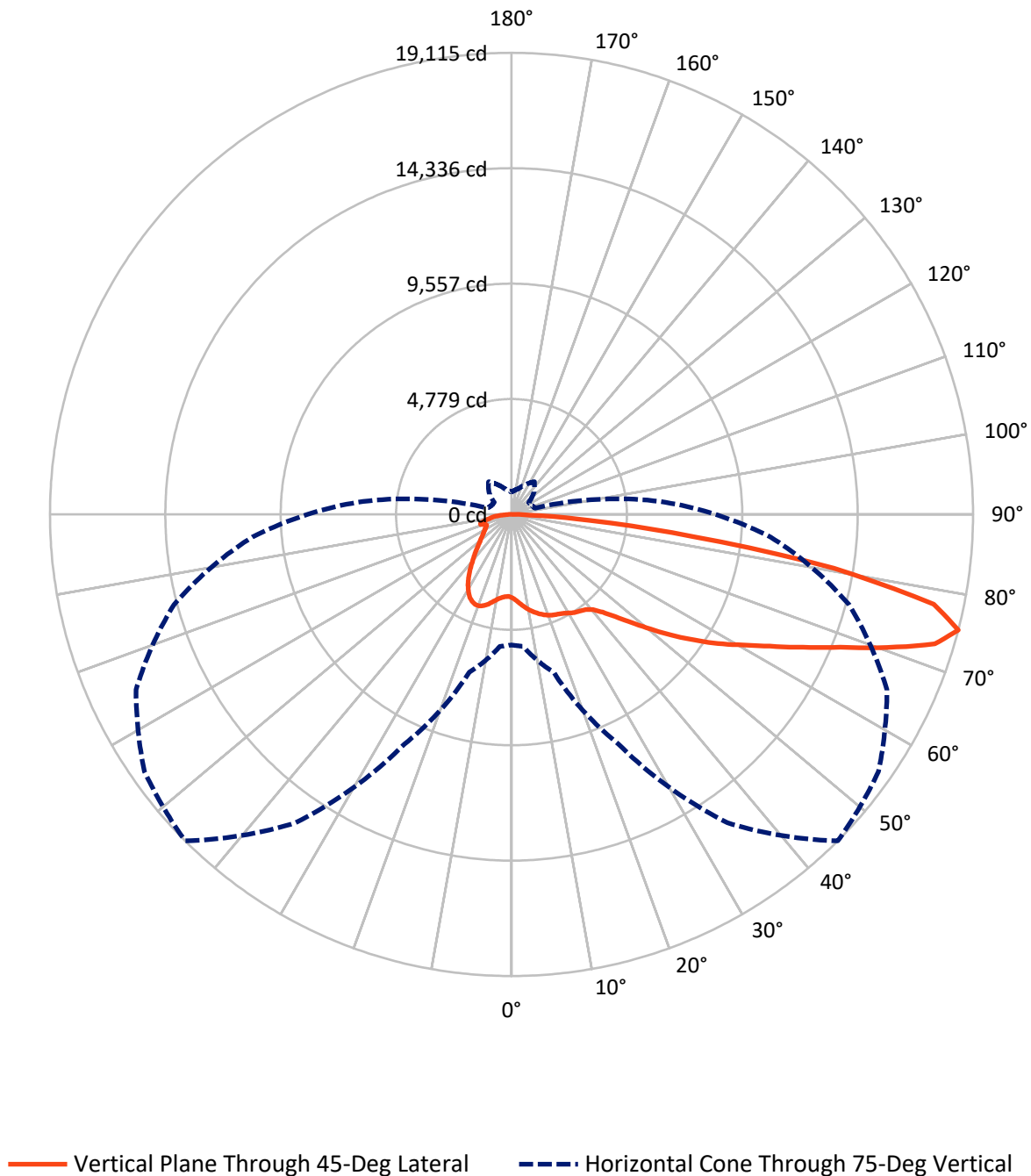


Based on 15 foot mounting height. Maximum calculated value = 18.9 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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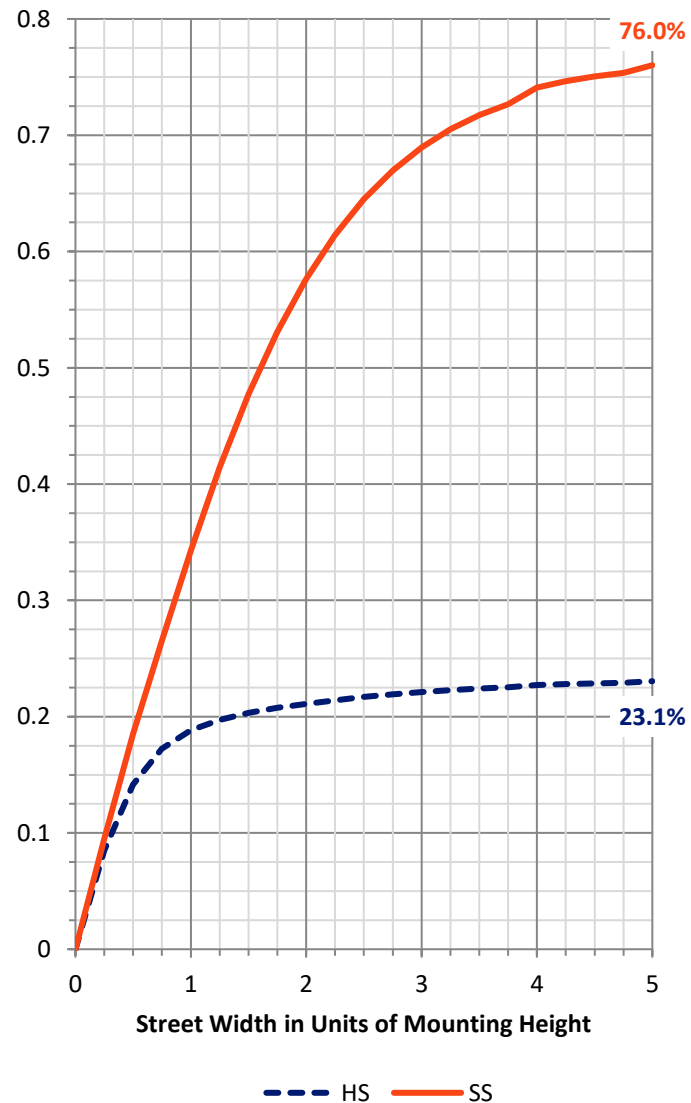
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7592.5	0.0	7592.5
	% Fixture	23.5	0.0	23.5
Street Side	Lumens	24672.6	0.0	24672.6
	% Fixture	76.5	0.0	76.5
Total	Lumens	32265.1	0.0	32265.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.4	1.1
10°-20°	1149.2	3.6
20°-30°	1977.8	6.1
30°-40°	2725.2	8.4
40°-50°	3796.4	11.8
50°-60°	5683.7	17.6
60°-70°	8056.2	25.0
70°-80°	7245.0	22.5
80°-90°	1284.2	4.0
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°	32265.1	100.0
0°-180°	32265.1	100.0

Coefficient of Utilization



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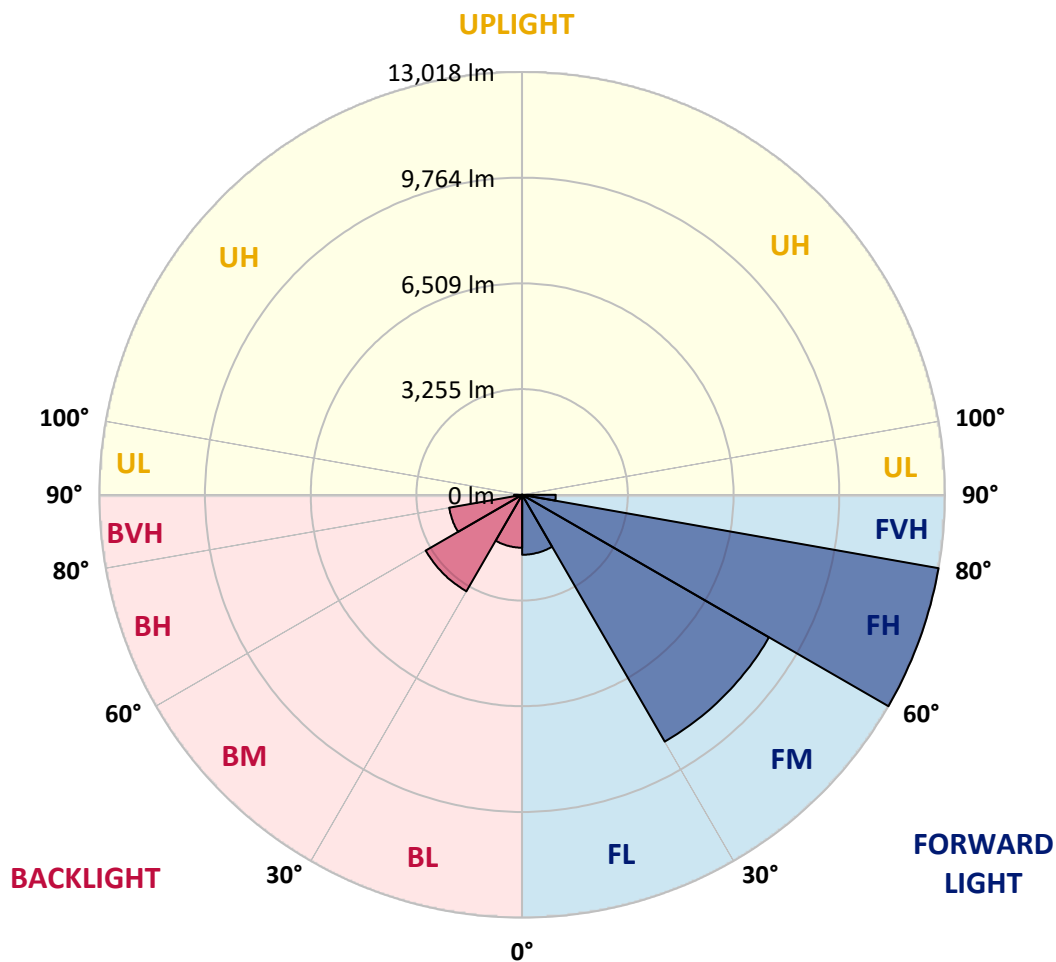
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1845.5	5.7			
FM	(30°-60°)	8774.0	27.2			
FH	(60°-80°)	13018.1	40.3			G5
FVH	(80°-90°)	1035.0	3.2			G5
BL	(0°-30°)	1629.0	5.0	B3/2500		
BM	(30°-60°)	3431.2	10.6	B3/5000		
BH	(60°-80°)	2283.1	7.1	B3/2500		G3/2500
BVH	(80°-90°)	249.2	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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3446.0	3446.0	3446.0	3446.0	3446.0	3446.0	3446.0	3446.0	3446.0	3446.0	3446.0
2.5°	3639.4	3630.0	3624.5	3595.5	3573.6	3561.1	3531.3	3509.4	3478.9	3455.4	3448.3
5°	3894.6	3876.6	3861.8	3813.2	3761.5	3710.6	3638.6	3576.0	3507.8	3456.2	3438.9
7.5°	4145.2	4131.1	4100.6	4026.2	3949.5	3866.5	3762.3	3669.9	3573.6	3501.6	3474.2
10°	4365.2	4347.2	4294.8	4210.2	4110.8	4019.9	3902.5	3796.8	3685.6	3597.9	3562.6
12.5°	4554.8	4528.2	4461.6	4356.6	4238.4	4145.2	4034.8	3937.7	3815.6	3713.8	3671.5
15°	4713.0	4682.4	4613.5	4477.3	4344.1	4266.6	4170.3	4078.6	3952.6	3834.4	3786.6
17.5°	4828.1	4801.4	4723.9	4564.2	4429.4	4369.9	4292.4	4211.0	4088.0	3957.3	3911.9
20°	4871.9	4839.8	4772.5	4607.3	4487.5	4460.0	4400.5	4331.6	4216.5	4087.3	4037.9
22.5°	4832.8	4806.1	4752.1	4601.0	4511.7	4515.6	4479.6	4433.3	4334.7	4207.1	4164.8
25°	4774.0	4745.8	4705.1	4576.7	4529.7	4565.0	4551.7	4529.0	4456.1	4333.1	4290.1
27.5°	4750.5	4717.7	4686.3	4578.3	4566.5	4636.2	4641.7	4642.5	4581.4	4456.9	4424.7
30°	4818.7	4781.9	4738.0	4624.5	4633.1	4735.7	4769.3	4753.7	4687.9	4575.9	4547.7
32.5°	5026.2	4987.0	4907.9	4734.9	4714.5	4839.8	4880.5	4834.3	4772.5	4683.2	4672.2
35°	5493.6	5433.3	5275.1	4965.1	4820.2	4904.0	4961.2	4927.5	4877.4	4824.1	4836.7
37.5°	6257.8	6174.8	5920.3	5388.7	5019.9	4994.8	5074.7	5075.5	5029.3	5007.4	5041.0
40°	7157.5	7070.6	6805.9	6069.9	5407.5	5186.7	5259.5	5297.1	5255.6	5270.5	5319.8
42.5°	8032.1	7942.0	7752.6	6924.1	5929.7	5531.2	5545.3	5637.7	5596.2	5646.3	5733.2
45°	8732.9	8656.9	8581.0	7752.6	6652.4	6037.0	5936.0	6098.9	6084.0	6181.9	6303.2
47.5°	9227.7	9149.4	9158.8	8540.3	7513.7	6683.0	6438.7	6708.8	6717.4	6932.8	7066.7
50°	9626.3	9550.3	9575.4	9209.7	8380.5	7458.9	7072.9	7429.2	7569.3	7895.9	8056.4
52.5°	10077.3	10012.3	10067.1	9818.9	9293.5	8299.1	7810.5	8299.9	8517.6	9030.4	9194.1
55°	10585.5	10529.1	10702.1	10550.2	10279.3	9179.2	8630.3	9285.7	9557.4	10349.0	10557.3
57.5°	10993.4	10933.1	11298.8	11446.8	11327.0	10082.8	9540.2	10311.4	10587.0	11820.2	12021.5
60°	11464.0	11377.1	11835.1	12295.5	12434.9	10971.5	10564.3	11437.4	11705.9	13416.1	13475.6
62.5°	11750.6	11684.0	12300.2	13051.9	13429.4	12011.3	11734.9	12559.4	12849.9	15065.9	14780.1
65°	11351.2	11384.1	12556.3	13656.5	14331.4	13259.4	13022.9	13748.9	14046.4	16537.9	15658.6
67.5°	10527.5	10590.2	12262.6	14051.9	15253.8	14683.8	14379.2	15001.7	15205.2	17400.8	15806.6
70°	9555.0	9612.2	11321.5	14127.0	16117.4	16499.5	16047.0	16360.2	16101.0	17082.9	14726.0
72.5°	8096.3	8248.2	9567.6	13155.3	16492.5	18340.4	17841.6	17403.9	16050.1	14898.3	12147.5
75°	5405.9	5481.9	6769.1	10492.3	15587.3	19114.8	18558.8	17155.7	14477.0	10771.8	8447.9
77.5°	2388.9	2627.0	3518.8	6151.3	12178.9	17880.0	17028.1	14369.0	10040.5	5919.6	4195.3
80°	875.4	926.3	1373.4	2545.5	7064.3	13539.8	12351.1	9162.7	5075.5	2246.4	1567.6
82.5°	489.4	512.9	747.0	1165.1	3171.2	7556.0	6871.7	3951.0	1750.0	738.4	658.5
85°	270.1	281.9	458.1	731.3	1541.7	3283.1	2616.0	1339.7	708.6	296.0	280.3
87.5°	119.0	139.4	246.6	370.4	703.1	750.9	650.7	523.0	330.4	112.0	98.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3446.0	3446.0	3446.0	3446.0	3446.0	3446.0	3446.0	3446.0	3446.0	3446.0
2.5°	3440.5	3428.8	3421.7	3406.0	3396.7	3399.8	3401.4	3406.8	3416.2	3395.9
5°	3426.4	3410.0	3408.4	3408.4	3419.4	3436.6	3453.0	3466.3	3485.9	3460.1
7.5°	3456.9	3438.9	3439.7	3450.7	3472.6	3505.5	3541.5	3565.8	3594.0	3563.4
10°	3547.0	3525.1	3532.1	3540.7	3565.0	3603.4	3651.1	3693.4	3727.9	3705.2
12.5°	3656.6	3637.0	3641.7	3662.1	3691.8	3727.9	3771.7	3810.9	3844.5	3814.8
15°	3768.6	3760.0	3768.6	3801.5	3837.5	3854.7	3859.4	3878.2	3900.9	3875.8
17.5°	3900.1	3889.9	3899.3	3942.4	3951.0	3933.8	3899.3	3891.5	3904.8	3882.1
20°	4023.8	4019.1	4027.0	4048.9	4019.9	3957.3	3900.1	3877.4	3894.6	3871.9
22.5°	4156.9	4130.3	4122.5	4097.4	4017.6	3938.5	3877.4	3857.1	3882.1	3865.7
25°	4286.1	4222.7	4164.0	4068.5	3950.2	3879.8	3833.6	3815.6	3840.6	3833.6
27.5°	4406.7	4296.3	4153.0	3958.1	3826.5	3765.4	3745.1	3739.6	3771.7	3767.8
30°	4531.3	4355.0	4082.6	3789.7	3628.4	3580.7	3610.4	3646.4	3685.6	3692.6
32.5°	4656.6	4396.5	3959.6	3572.8	3397.4	3355.9	3438.9	3521.2	3574.4	3593.2
35°	4806.9	4426.3	3792.9	3318.4	3123.4	3112.4	3213.4	3320.7	3395.9	3410.0
37.5°	4992.5	4443.6	3588.5	3049.8	2838.4	2832.1	2924.5	3022.4	3085.8	3117.9
40°	5250.1	4446.7	3328.5	2750.7	2553.4	2544.8	2581.6	2634.0	2667.7	2703.7
42.5°	5615.8	4435.7	3063.1	2448.4	2305.9	2272.3	2256.6	2247.2	2194.0	2204.1
45°	6114.5	4422.4	2784.3	2185.4	2075.7	2002.1	1954.4	1884.7	1779.8	1778.2
47.5°	6751.9	4439.7	2535.4	1958.3	1878.4	1796.2	1703.0	1594.2	1480.7	1474.4
50°	7500.4	4512.5	2283.2	1762.5	1707.7	1628.6	1522.2	1392.2	1283.3	1273.2
52.5°	8357.8	4597.1	2032.7	1592.6	1577.0	1501.8	1385.1	1253.6	1168.2	1155.7
55°	9367.9	4749.0	1794.6	1451.7	1466.6	1400.8	1284.9	1162.8	1091.5	1084.5
57.5°	10451.6	4886.0	1574.6	1338.1	1372.6	1324.8	1217.6	1106.4	1053.1	1039.8
60°	11612.8	4759.2	1408.6	1240.3	1291.2	1266.9	1160.4	1053.9	1024.9	1017.9
62.5°	12582.9	4240.7	1276.3	1156.5	1221.5	1217.6	1116.6	1031.2	1024.9	1020.2
65°	13091.1	3386.5	1182.3	1086.0	1165.1	1171.4	1109.5	1039.8	1054.7	1060.2
67.5°	12867.9	2459.4	1118.9	1028.9	1118.1	1234.0	1293.5	1259.8	1261.4	1256.7
70°	11738.8	1732.0	1060.2	984.2	1181.5	1570.7	1559.0	1385.1	1304.5	1258.3
72.5°	9520.6	1281.8	993.6	951.3	1349.9	1753.9	1533.1	1255.1	1130.7	1089.9
75°	6167.8	1014.8	898.1	875.4	1321.7	1653.7	1356.9	1104.0	974.1	934.1
77.5°	2831.3	818.2	777.5	738.4	1114.2	1426.6	1143.2	928.6	818.2	805.7
80°	1111.1	675.7	628.7	599.0	912.2	1231.7	1003.8	812.0	712.5	691.4
82.5°	555.1	534.0	486.2	455.7	773.6	1111.9	886.4	700.0	612.3	573.9
85°	299.1	357.0	339.0	303.8	545.8	826.8	646.0	490.2	406.4	402.5
87.5°	148.0	162.9	137.0	144.9	279.5	444.0	398.5	307.7	232.6	243.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)