

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: P622849

Luminaire Tested: **PRV-M-PA6D-8540-U-T3-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-11)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-PA6D-8540-U-T3-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 85 CRI, 4000K LIGHT ENGINES AND TYPE III OPTICS WITH HOUSE SIDE
SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38533 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 544
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

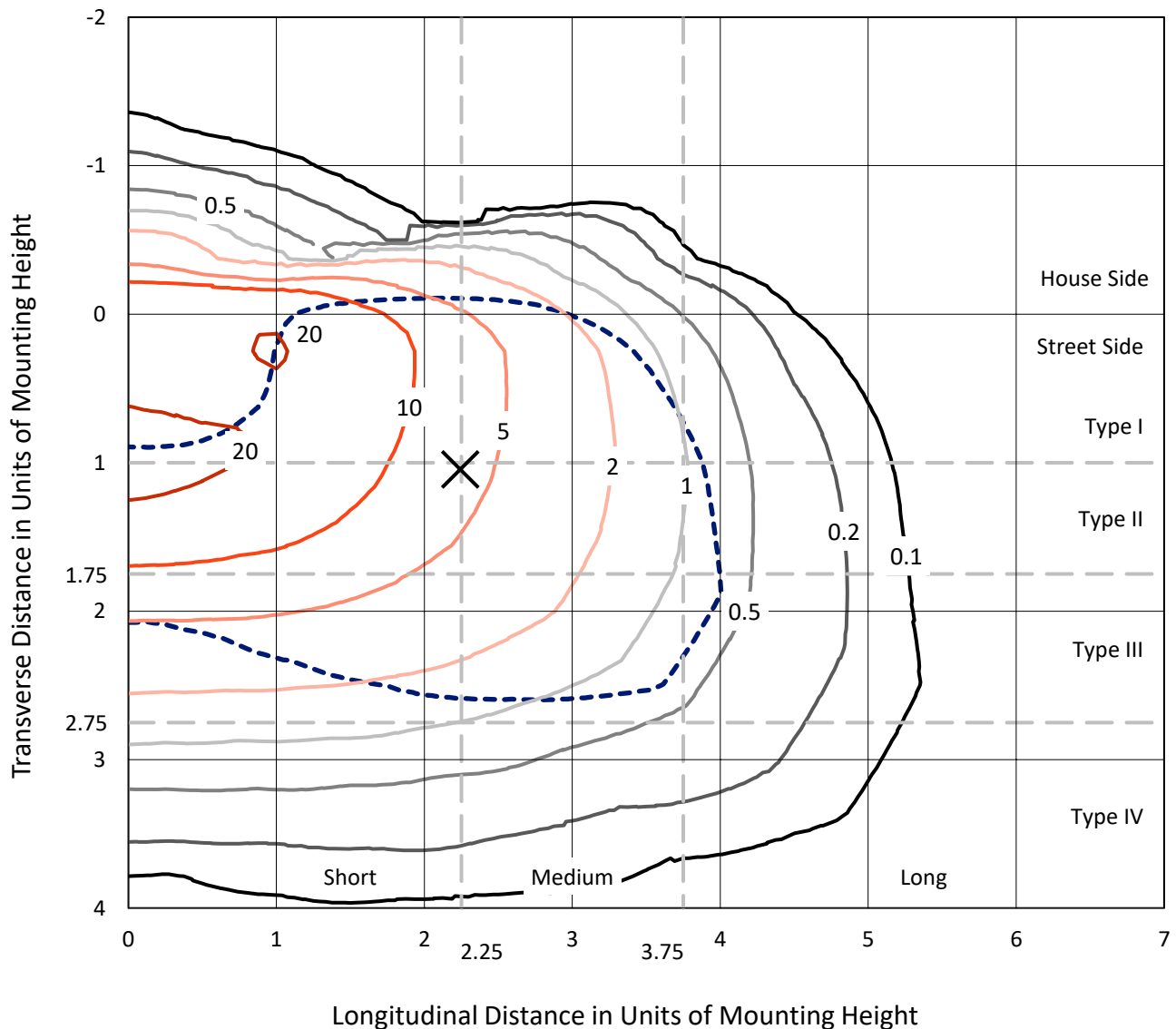


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

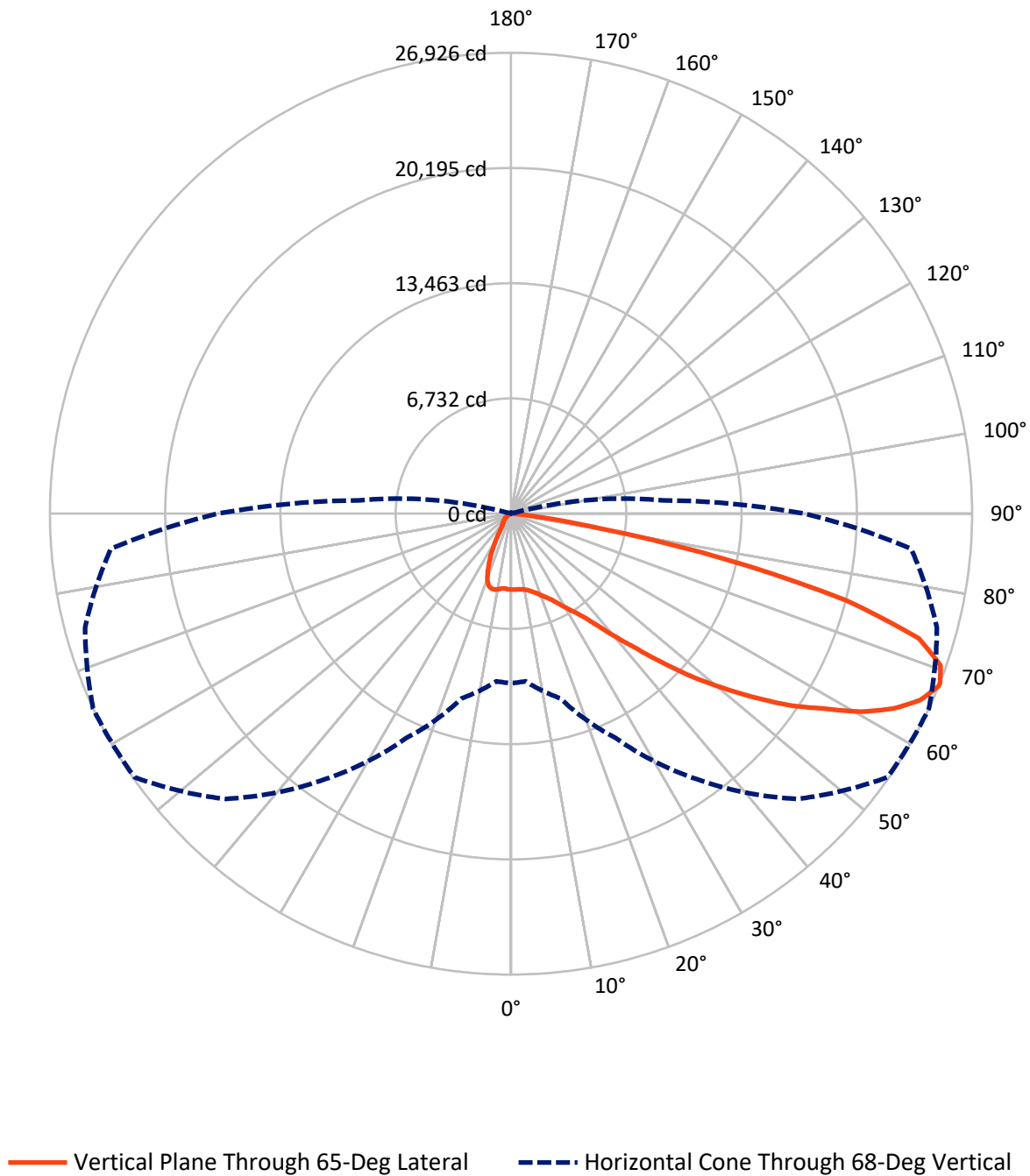


Based on 15 foot mounting height. Maximum calculated value = 24.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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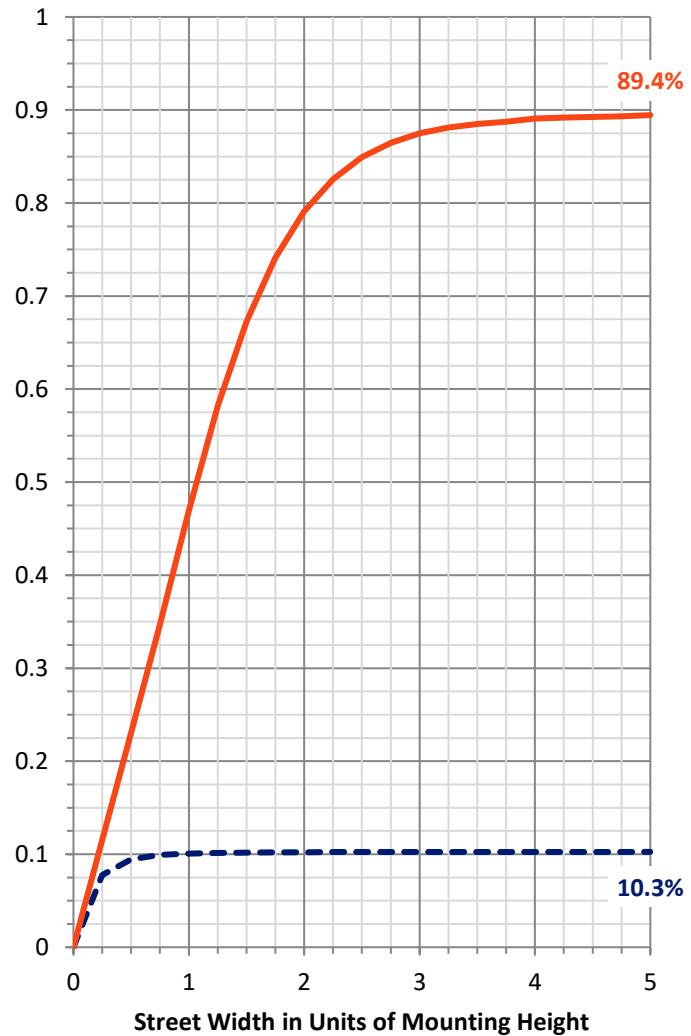
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3986.7	0.0	3986.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	34546.3	0.0	34546.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	38533.0	0.0	38533.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.6	1.1
10°-20°	1087.8	2.8
20°-30°	1721.8	4.5
30°-40°	3006.1	7.8
40°-50°	5832.4	15.1
50°-60°	9452.2	24.5
60°-70°	10987.0	28.5
70°-80°	5704.2	14.8
80°-90°	327.8	0.9
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°	38533.0	100.0
0°-180°	38533.0	100.0

Coefficient of Utilization



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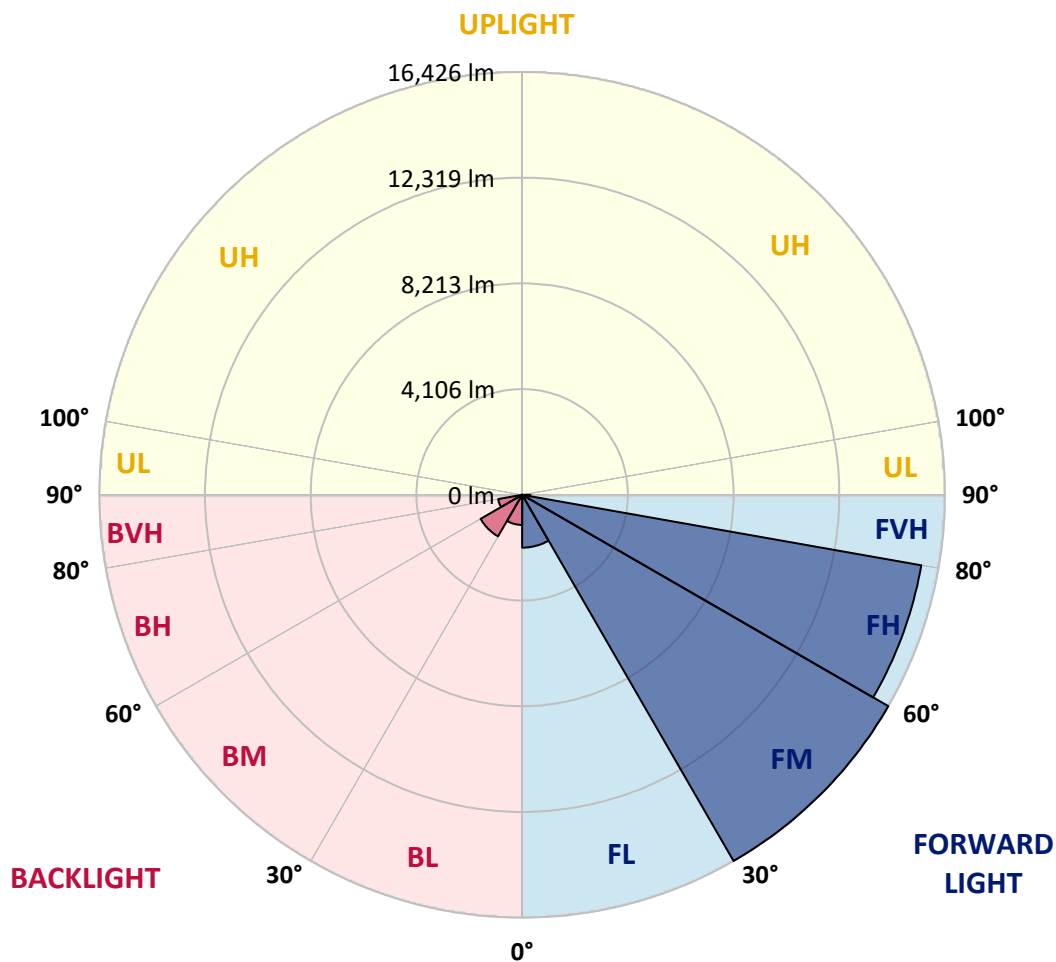
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2053.1	5.3			
FM	(30°-60°)	16425.8	42.6			
FH	(60°-80°)	15746.6	40.9			G5
FVH	(80°-90°)	320.8	0.8			G3/500
BL	(0°-30°)	1170.1	3.0	B3/2500		
BM	(30°-60°)	1864.9	4.8	B2/2500		
BH	(60°-80°)	944.7	2.5	B2/1000		G2/1000
BVH	(80°-90°)	7.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4441.1	4441.1	4441.1	4441.1	4441.1	4441.1	4441.1	4441.1	4441.1	4441.1	4441.1
2.5°	4494.7	4456.4	4459.0	4455.1	4441.1	4451.4	4444.9	4442.4	4432.2	4428.3	4427.1
5°	4418.1	4382.3	4393.8	4404.1	4404.1	4429.6	4434.7	4437.3	4425.8	4419.4	4411.7
7.5°	4298.0	4268.6	4287.8	4323.6	4349.1	4406.6	4437.3	4460.3	4457.7	4459.0	4450.0
10°	4198.4	4170.3	4207.3	4260.9	4313.3	4397.6	4457.7	4515.2	4548.4	4571.4	4568.9
12.5°	4165.1	4140.8	4175.3	4239.2	4307.0	4405.3	4496.1	4600.8	4680.0	4726.0	4719.6
15°	4170.3	4144.7	4179.2	4248.2	4322.2	4437.3	4570.1	4732.4	4850.0	4892.1	4899.8
17.5°	4211.1	4180.4	4207.3	4271.2	4359.4	4506.2	4692.8	4895.9	5044.2	5100.4	5099.1
20°	4266.1	4231.6	4255.8	4313.3	4416.8	4613.6	4848.6	5094.0	5267.7	5323.9	5316.3
22.5°	4347.8	4309.5	4327.4	4383.6	4516.5	4765.7	5032.7	5316.3	5507.9	5562.9	5539.9
25°	4571.4	4511.3	4475.6	4484.6	4644.2	4953.4	5285.6	5585.8	5786.4	5806.9	5771.1
27.5°	5142.5	5099.1	4919.0	4743.9	4800.1	5156.6	5610.1	5962.8	6144.2	6112.3	6063.7
30°	6319.2	6154.5	5870.8	5417.2	5150.2	5373.8	5923.2	6403.5	6568.4	6494.3	6401.0
32.5°	7724.7	7530.4	7113.9	6457.2	5860.6	5743.0	6297.5	6871.2	7062.8	6919.8	6825.2
35°	9109.6	9035.5	8602.4	7803.8	6931.2	6410.0	6802.2	7478.0	7745.1	7616.1	7517.7
37.5°	10685.0	10511.2	10142.0	9218.2	8233.2	7375.9	7493.4	8377.6	8746.7	8560.2	8405.7
40°	12266.7	12076.3	11705.8	10676.0	9729.2	8735.3	8492.5	9498.0	10004.0	9765.0	9507.0
42.5°	13829.3	13807.5	13334.8	12385.5	11309.7	10424.3	9919.7	10796.1	11427.3	11155.2	10724.6
45°	15846.7	15646.1	15049.4	14197.2	13283.7	12335.7	11700.7	12420.0	13177.7	12610.4	11924.3
47.5°	17088.5	16973.6	16494.4	15961.6	15432.7	14543.4	13678.5	14211.3	14855.2	14110.3	13120.2
50°	18146.4	18009.7	17669.9	17485.9	17460.3	16945.5	15808.3	15996.1	16540.4	15675.4	14268.8
52.5°	18803.1	18675.3	18456.9	18717.5	19325.7	19454.7	17888.3	17846.1	18382.8	17236.7	15359.9
55°	18818.5	18525.9	18698.4	19454.7	20860.1	21408.2	20028.4	19770.3	19968.3	18896.4	16380.7
57.5°	18161.8	18058.3	18568.1	19784.4	21854.2	22858.4	22019.0	21472.1	21624.2	20515.1	17267.4
60°	16818.9	16833.0	17953.5	19666.8	22452.1	24013.4	23870.2	23493.4	23283.8	22024.1	17954.7
62.5°	14933.1	15029.0	16465.0	18955.2	22325.6	24613.8	25481.4	25076.4	24569.1	23283.8	18340.6
65°	12827.6	12788.0	14331.3	17450.1	21185.9	24620.3	26563.5	26271.0	25537.6	23945.6	18230.7
67.5°	10420.5	10337.4	11739.0	15043.0	19398.5	23820.4	26848.4	26914.9	25800.8	23662.0	17407.9
68°	9903.1	9828.9	11173.0	14452.8	18939.8	23571.3	26839.5	26926.4	25748.4	23448.7	17133.2
70°	7742.5	7667.1	8764.7	11703.3	16624.7	22068.8	26416.6	26615.9	25068.7	22003.6	15564.3
72.5°	4346.6	4483.2	5468.3	7926.5	12402.1	18924.5	24696.9	24896.2	22599.0	17652.0	11712.2
75°	1399.0	1383.7	2226.9	3817.6	7075.6	12803.3	20230.2	20241.7	16972.2	10691.3	6471.3
77.5°	735.9	742.3	896.9	1553.6	2873.5	5630.6	12386.7	12736.8	8790.2	4057.8	2210.3
80°	458.7	466.4	555.8	895.6	1565.1	1915.2	5414.7	5430.0	2538.7	922.5	527.7
82.5°	309.2	314.3	388.4	581.3	1041.3	783.2	1650.7	1632.9	719.3	291.3	176.3
85°	146.9	149.5	250.4	398.6	509.8	324.6	476.5	504.6	356.5	138.0	75.4
87.5°	30.7	34.5	126.5	173.7	153.3	63.9	134.1	107.3	145.6	56.2	34.5
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°	4441.1	4441.1	4441.1	4441.1	4441.1	4441.1	4441.1	4441.1	4441.1	4441.1
2.5°	4432.2	4436.0	4424.5	4404.1	4401.5	4396.4	4405.3	4402.7	4405.3	4376.0
5°	4414.2	4409.2	4387.5	4363.2	4358.0	4349.1	4352.9	4342.8	4344.0	4305.6
7.5°	4452.6	4437.3	4399.0	4349.1	4287.8	4211.1	4153.7	4092.3	4087.2	4041.2
10°	4572.7	4548.4	4479.5	4327.4	4130.6	3863.6	3617.0	3389.6	3329.6	3240.1
12.5°	4718.4	4682.6	4533.1	4220.1	3739.7	3185.2	2698.4	2449.2	2342.0	2290.8
15°	4889.5	4819.3	4522.8	3898.1	3025.4	2290.8	1844.9	1580.5	1517.8	1474.4
17.5°	5090.1	4949.6	4418.1	3283.6	2276.7	1599.6	1300.6	1224.0	1215.1	1213.7
20°	5297.2	5050.5	4125.5	2616.6	1623.9	1224.0	1165.2	1138.4	1126.9	1123.1
22.5°	5502.8	5106.7	3615.7	1982.9	1222.7	1130.7	1088.5	1050.2	1032.3	1018.3
25°	5727.7	5099.1	3016.5	1433.5	1112.8	1056.6	996.6	942.9	917.4	899.4
27.5°	5997.2	4973.9	2400.7	1133.2	1033.6	963.3	886.7	820.3	783.2	774.2
30°	6309.0	4678.7	1810.5	1002.9	932.7	858.6	760.2	674.6	637.5	629.8
32.5°	6697.4	4266.1	1281.5	893.1	815.1	734.6	623.5	532.8	494.5	477.9
35°	7240.4	3784.4	978.7	789.6	697.6	599.2	484.2	415.2	382.0	375.6
37.5°	7899.7	3284.8	835.6	697.6	592.8	474.0	371.8	323.2	301.5	297.7
40°	8653.5	2778.9	746.1	612.0	494.5	367.9	288.8	250.4	241.5	240.2
42.5°	9392.0	2221.8	677.1	534.1	401.2	284.9	221.0	199.4	196.8	198.0
45°	10004.0	1643.0	609.4	462.5	318.1	219.8	175.0	161.0	164.8	167.4
47.5°	10492.0	1147.3	544.3	388.4	249.2	177.6	144.4	135.5	141.8	144.4
50°	10856.1	853.5	481.7	316.9	200.6	148.2	122.6	115.0	125.2	127.8
52.5°	11087.4	705.2	411.4	254.2	167.4	127.8	103.5	97.1	109.9	113.7
55°	11211.3	610.7	348.8	208.3	144.4	109.9	86.9	83.1	97.1	100.9
57.5°	11188.4	530.2	291.3	175.0	129.0	97.1	72.8	70.2	85.6	90.7
60°	10980.1	454.8	238.9	146.9	115.0	85.6	62.6	60.1	76.7	80.5
62.5°	10610.8	375.6	192.9	125.2	103.5	76.7	53.6	51.1	65.1	69.0
65°	9987.3	291.3	150.7	108.6	93.3	67.7	46.0	39.6	52.4	55.0
67.5°	9133.9	223.6	121.4	93.3	84.3	61.3	38.4	30.7	39.6	42.1
68°	8923.1	212.1	116.3	89.4	81.7	60.1	37.0	29.4	38.4	39.6
70°	7860.1	175.0	98.3	77.9	74.1	53.6	31.9	23.0	29.4	30.7
72.5°	5373.8	139.3	80.5	65.1	61.3	46.0	25.5	16.6	21.7	21.7
75°	1769.5	106.0	62.6	47.3	44.7	34.5	17.9	11.5	14.0	14.0
77.5°	388.4	70.2	40.9	29.4	26.9	21.7	11.5	5.1	7.7	7.7
80°	122.6	35.8	23.0	16.6	15.3	11.5	6.4	1.3	1.3	2.6
82.5°	47.3	17.9	16.6	12.8	10.3	7.7	3.8	0.0	0.0	0.0
85°	24.3	12.8	12.8	10.3	7.7	5.1	2.6	0.0	0.0	0.0
87.5°	14.0	11.5	11.5	8.9	6.4	2.6	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)