

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: P622851

Luminaire Tested: **PRV-M-PA6D-8540-U-T4W-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-13)
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-T4W-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 85 CRI, 4000K LIGHT ENGINES AND TYPE IV OPTICS WITH HOUSE SIDE
SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38336.5 lumens
Efficiency: N/A
Efficacy: 70.5 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): 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

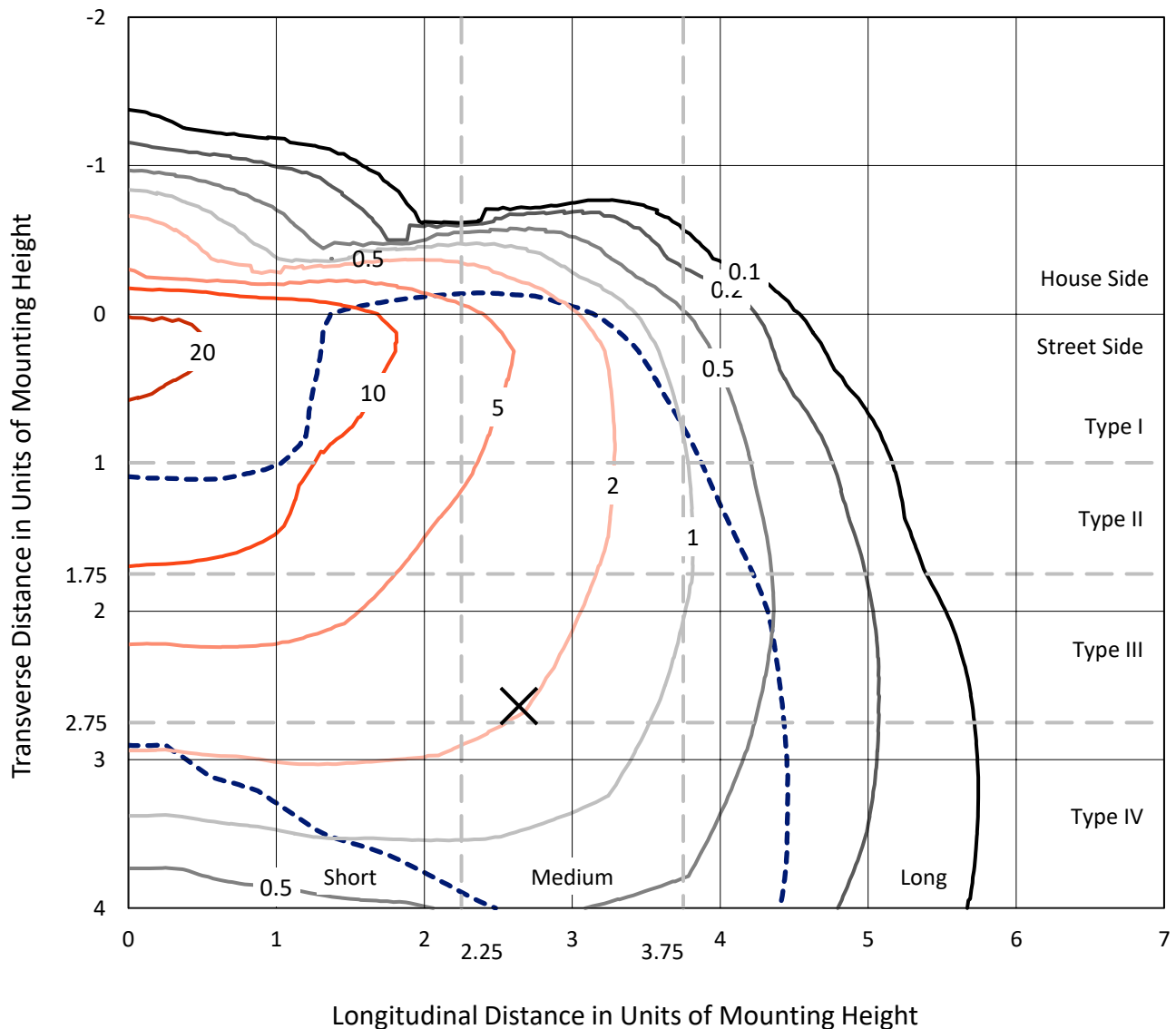


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

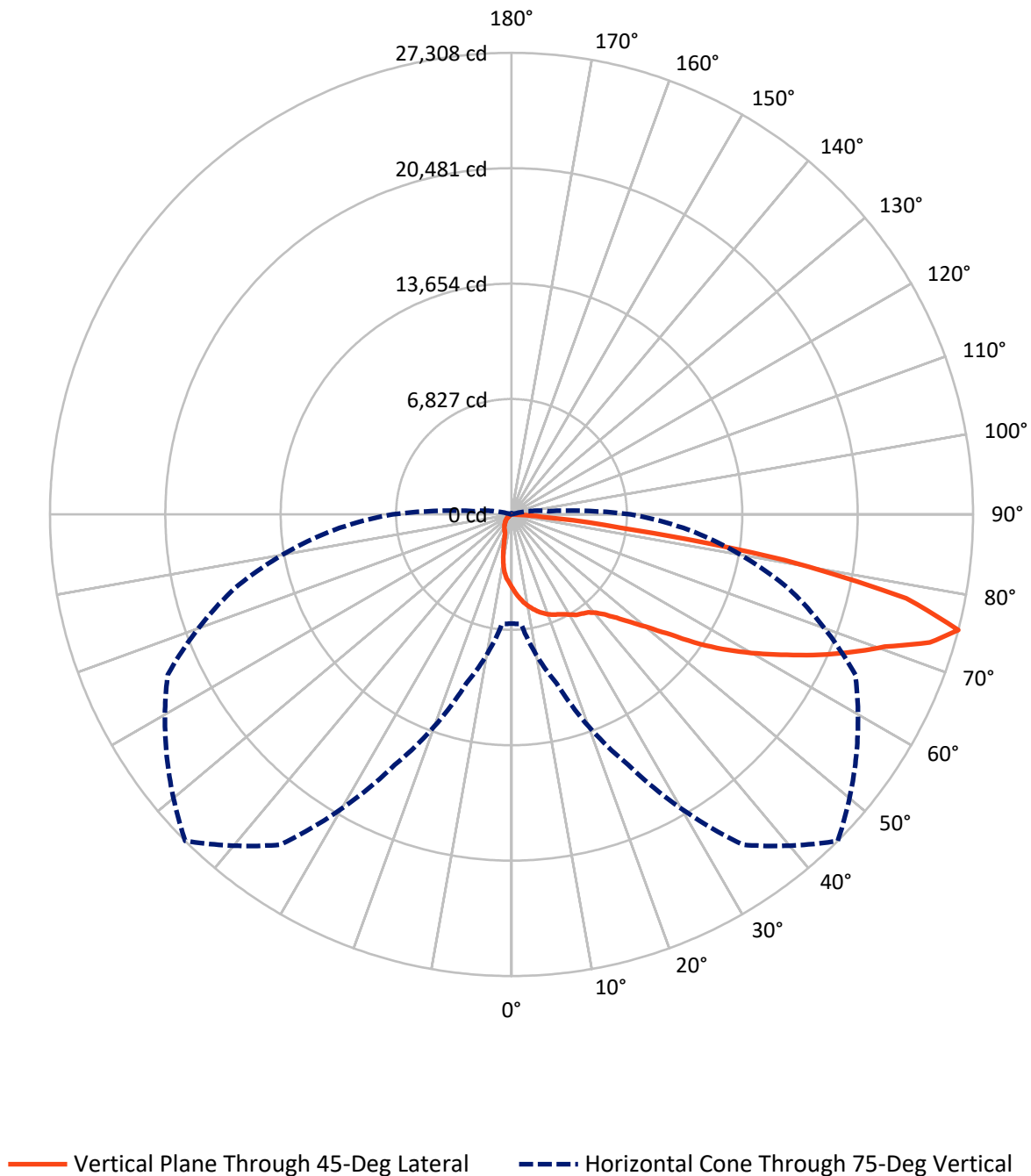


Based on 15 foot mounting height. Maximum calculated value = 26.9 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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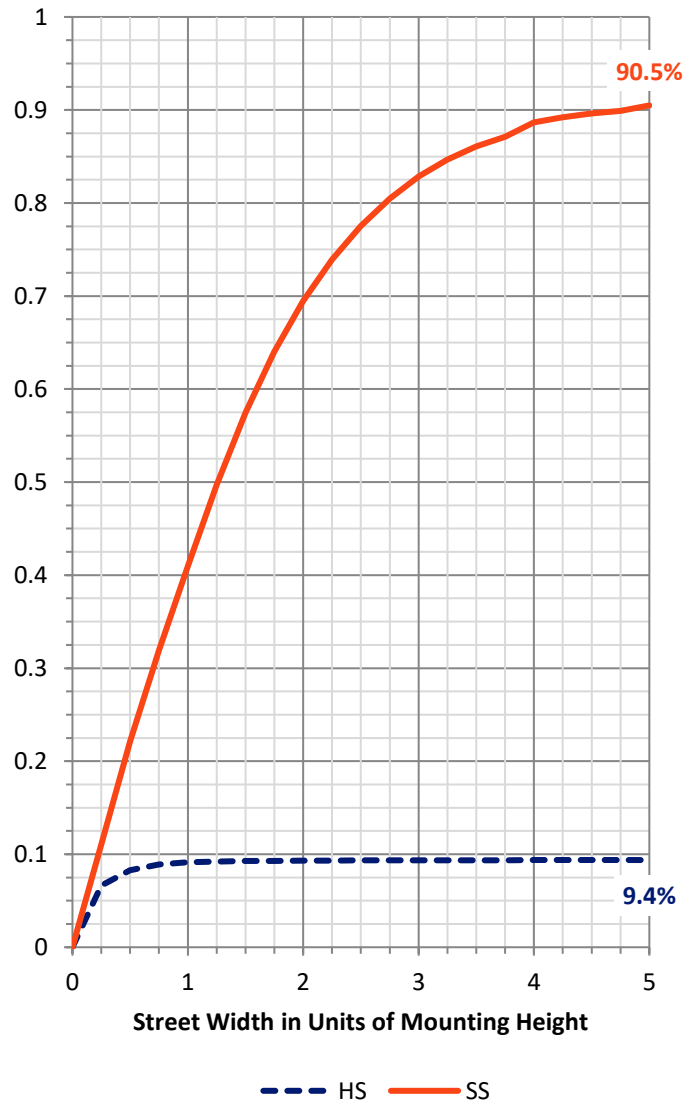
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3622.8	0.0	3622.8
	% Fixture	9.5	0.0	9.5
Street Side	Lumens	34713.7	0.0	34713.7
	% Fixture	90.5	0.0	90.5
Total	Lumens	38336.5	0.0	38336.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.5	1.1
10°-20°	1185.8	3.1
20°-30°	1932.3	5.0
30°-40°	2727.0	7.1
40°-50°	4356.9	11.4
50°-60°	7388.1	19.3
60°-70°	10709.8	27.9
70°-80°	8717.6	22.7
80°-90°	906.6	2.4
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°	38336.5	100.0
0°-180°	38336.5	100.0

Coefficient of Utilization



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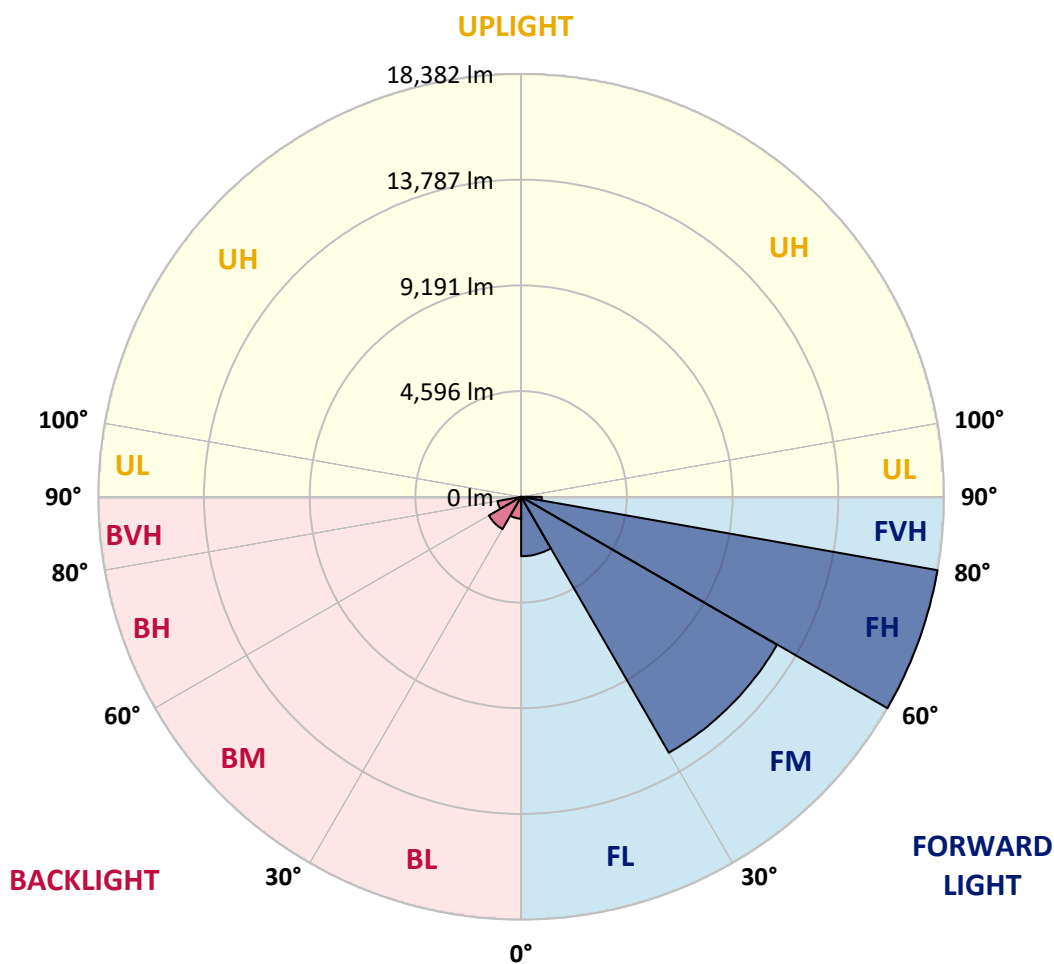
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2583.5	6.7			
FM	(30°-60°)	12850.6	33.5			
FH	(60°-80°)	18382.3	47.9			G5
FVH	(80°-90°)	897.3	2.3			G5
BL	(0°-30°)	947.0	2.5	B2/1000		
BM	(30°-60°)	1621.3	4.2	B2/2500		
BH	(60°-80°)	1045.2	2.7	B3/2500		G3/2500
BVH	(80°-90°)	9.3	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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4316.0	4316.0	4316.0	4316.0	4316.0	4316.0	4316.0	4316.0	4316.0	4316.0	4316.0
2.5°	4798.9	4801.5	4782.3	4738.9	4689.1	4648.2	4574.1	4501.2	4423.3	4347.9	4314.7
5°	5281.9	5273.0	5235.9	5156.7	5060.8	4968.8	4818.1	4678.8	4519.1	4364.5	4294.3
7.5°	5730.4	5707.4	5648.6	5534.9	5410.9	5258.9	5064.7	4861.6	4640.5	4439.9	4336.4
10°	6120.0	6099.6	6014.0	5865.8	5698.4	5519.5	5303.7	5089.0	4851.3	4592.0	4462.9
12.5°	6458.7	6420.3	6316.8	6129.0	5930.9	5753.3	5533.6	5338.1	5058.3	4781.1	4621.3
15°	6747.3	6705.2	6586.4	6355.1	6123.8	5968.0	5769.9	5575.7	5308.7	4977.8	4793.8
17.5°	6945.4	6905.8	6776.8	6517.4	6282.3	6150.7	6002.5	5810.9	5542.5	5183.5	4977.8
20°	7010.6	6967.1	6859.8	6595.4	6384.5	6314.3	6187.7	6025.5	5763.6	5394.3	5173.3
22.5°	6948.0	6905.8	6831.7	6588.9	6442.1	6436.9	6352.6	6222.3	5971.9	5600.0	5361.1
25°	6859.8	6820.2	6758.9	6551.9	6479.1	6548.1	6507.2	6398.6	6191.6	5819.8	5586.0
27.5°	6825.3	6781.9	6726.9	6557.0	6553.2	6687.4	6688.6	6609.4	6415.2	6048.5	5804.5
30°	6882.8	6834.3	6773.0	6628.6	6675.9	6880.2	6939.0	6849.6	6624.7	6260.6	6028.1
32.5°	7027.2	6940.3	6865.0	6734.6	6812.6	7078.3	7170.3	7029.8	6790.8	6477.8	6273.4
35°	7275.1	7140.9	7015.7	6873.9	6935.2	7204.8	7340.2	7232.9	6992.7	6741.0	6571.1
37.5°	7807.8	7639.2	7433.5	7151.1	7112.8	7358.1	7567.6	7553.6	7307.0	7087.2	6955.6
40°	8849.2	8637.0	8339.3	7729.9	7419.5	7637.9	7925.4	7998.2	7750.4	7559.9	7466.7
42.5°	10557.4	10342.7	9807.4	8656.2	7903.7	8088.9	8412.2	8605.1	8350.9	8226.9	8143.9
45°	12349.9	12185.1	11637.0	10028.4	8707.4	8726.5	9070.2	9429.2	9269.5	9131.5	9015.2
47.5°	13709.4	13549.7	13156.2	11689.4	9942.8	9518.6	9880.2	10424.5	10350.4	10231.6	10107.7
50°	14679.1	14508.0	14256.2	13254.5	11543.8	10515.2	10837.2	11578.2	11762.2	11692.0	11460.7
52.5°	15587.6	15415.1	15199.2	14617.8	13349.1	11808.3	11975.6	12983.7	13300.6	13336.3	12831.6
55°	16341.4	16206.0	16296.7	15927.5	15224.7	13539.5	13304.4	14442.8	14936.0	15192.8	14398.0
57.5°	16815.4	16667.3	17163.0	17367.4	17122.1	15145.5	14726.4	16046.3	16556.1	17197.4	15859.7
60°	17285.6	17115.7	17800.5	18647.6	18910.8	16700.5	16296.7	17661.3	18187.7	19498.5	17334.1
62.5°	17556.5	17369.9	18314.1	19622.4	20349.5	18289.9	17973.0	19301.8	19863.9	21903.1	18585.0
65°	16623.8	16579.1	18467.4	20262.6	21535.2	20037.7	19764.3	20938.4	21540.3	24103.2	19591.8
67.5°	15472.6	15463.6	17987.1	20663.8	22506.2	21735.8	21468.7	22616.0	23102.9	25410.3	19768.1
70°	14629.3	14631.9	17123.3	21194.0	23620.3	23426.1	23143.8	24186.3	24084.1	24453.3	18177.4
72.5°	12120.0	12241.3	14896.3	20409.5	24969.6	25885.6	24657.8	24904.3	22579.0	18941.5	13390.0
75°	6452.2	6504.6	10346.6	16351.6	23851.6	27307.7	24901.8	22444.9	16987.9	10551.0	7034.9
77.5°	2172.0	2126.1	3604.3	8823.6	18195.3	23875.9	20410.8	15786.9	9089.4	3479.1	2273.0
80°	686.1	709.1	1166.5	2805.8	9602.9	16382.3	12286.1	7819.4	2718.9	778.1	448.4
82.5°	309.2	334.7	536.6	1231.7	3773.0	6507.2	5945.0	2699.7	932.7	249.2	167.4
85°	116.3	123.9	263.2	701.4	1531.9	1786.2	2063.4	988.9	599.2	98.3	66.5
87.5°	28.1	31.9	108.6	227.5	357.8	242.7	339.8	365.4	336.1	34.5	26.9
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°	4316.0	4316.0	4316.0	4316.0	4316.0	4316.0	4316.0	4316.0	4316.0	4316.0
2.5°	4282.8	4212.5	4163.9	4093.7	4029.8	4006.8	3972.3	3962.1	3963.3	3932.7
5°	4231.6	4102.6	3996.6	3877.7	3771.7	3689.9	3603.1	3554.5	3532.7	3521.2
7.5°	4243.2	4054.1	3868.8	3646.5	3408.8	3212.1	3034.4	2932.3	2877.3	2867.1
10°	4337.7	4075.7	3766.5	3345.0	2911.8	2583.4	2330.4	2191.2	2108.1	2096.6
12.5°	4469.3	4114.1	3601.7	2950.1	2344.5	1902.5	1625.2	1534.4	1508.9	1506.3
15°	4614.9	4133.3	3360.2	2480.0	1767.0	1390.1	1263.6	1275.1	1290.5	1291.7
17.5°	4773.4	4116.6	3039.6	1971.4	1346.7	1175.4	1139.7	1172.9	1216.3	1217.6
20°	4943.3	4047.6	2660.1	1516.6	1153.8	1091.1	1088.6	1114.1	1160.1	1165.3
22.5°	5114.5	3918.6	2193.7	1226.6	1059.2	1045.1	1037.5	1054.1	1100.0	1105.2
25°	5289.6	3720.6	1735.0	1059.2	1001.7	995.3	983.8	994.0	1032.4	1038.7
27.5°	5472.2	3490.6	1368.4	953.1	936.5	934.0	930.1	926.3	960.8	968.5
30°	5643.5	3162.2	1087.3	877.7	858.6	861.1	857.3	857.3	885.4	891.8
32.5°	5823.6	2816.0	912.3	810.0	780.7	776.8	780.7	784.5	802.3	808.8
35°	6019.1	2414.8	812.6	747.5	707.8	690.0	691.2	697.6	710.4	716.8
37.5°	6244.0	2031.5	746.1	690.0	641.4	612.0	596.6	596.6	610.7	610.7
40°	6517.4	1626.4	697.6	636.3	580.0	536.6	507.2	485.5	479.1	489.4
42.5°	6848.4	1294.3	656.7	594.1	522.6	468.9	415.2	370.5	359.0	362.8
45°	7263.6	1013.2	618.4	550.7	463.8	394.8	323.2	264.5	249.2	253.0
47.5°	7761.9	830.4	578.8	503.4	402.5	320.7	227.5	178.8	177.6	181.4
50°	8345.8	709.1	531.5	457.4	343.7	241.5	153.3	125.2	136.7	143.1
52.5°	8992.3	640.1	485.5	412.7	282.3	168.7	108.6	99.7	115.0	120.1
55°	9643.9	592.8	440.8	361.6	219.8	120.1	85.6	84.3	100.9	104.8
57.5°	10199.7	537.9	397.4	304.1	166.1	95.8	75.4	75.4	92.0	95.8
60°	10636.6	465.1	346.2	232.6	127.8	84.3	66.5	66.5	84.3	88.2
62.5°	10968.8	359.0	269.6	172.5	108.6	79.2	60.1	58.8	76.7	81.7
65°	11049.3	249.2	196.8	131.6	98.3	75.4	53.6	51.1	69.0	72.8
67.5°	10682.6	176.3	147.0	106.0	92.0	72.8	48.5	43.5	60.1	63.9
70°	9279.7	136.7	113.7	86.9	88.2	71.6	44.7	37.0	48.5	51.1
72.5°	6260.6	112.4	92.0	74.1	83.1	67.7	39.6	29.4	38.4	39.6
75°	2223.2	90.7	72.8	60.1	71.6	60.1	33.2	23.0	28.1	29.4
77.5°	399.9	66.5	52.4	43.5	55.0	47.3	26.9	16.6	20.4	20.4
80°	100.9	38.4	30.7	24.3	37.0	33.2	20.4	12.8	14.0	14.0
82.5°	42.1	20.4	20.4	16.6	20.4	20.4	12.8	7.7	8.9	8.9
85°	24.3	16.6	16.6	14.0	14.0	12.8	8.9	5.1	2.6	3.8
87.5°	16.6	15.3	14.0	12.8	11.5	7.7	5.1	2.6	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)