

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: P622604

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

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-9)
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-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 85 CRI, 4000K LIGHT ENGINES AND TYPE II U OPTICS WITH HOUSE SIDE
SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22668.6 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

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

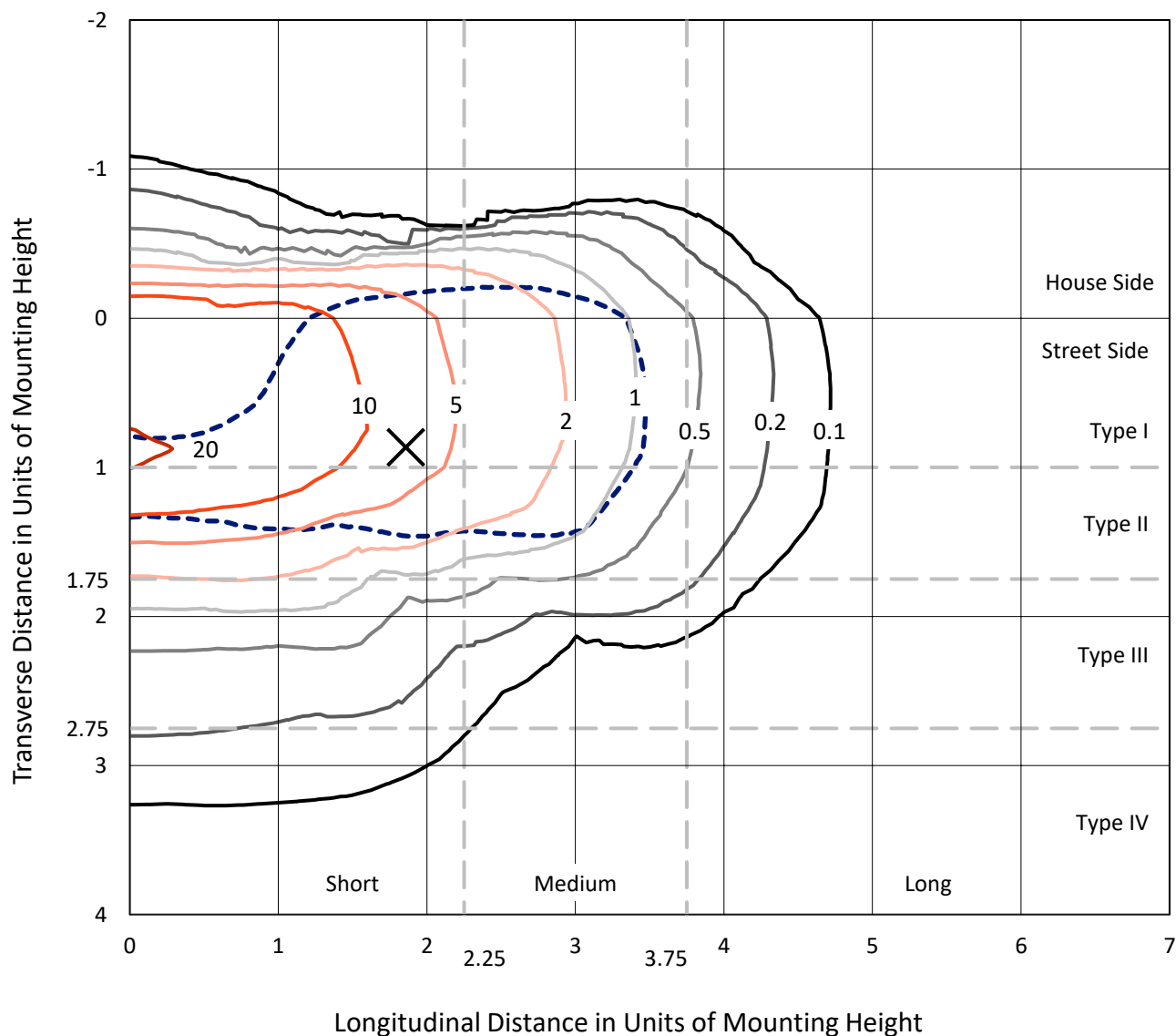


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

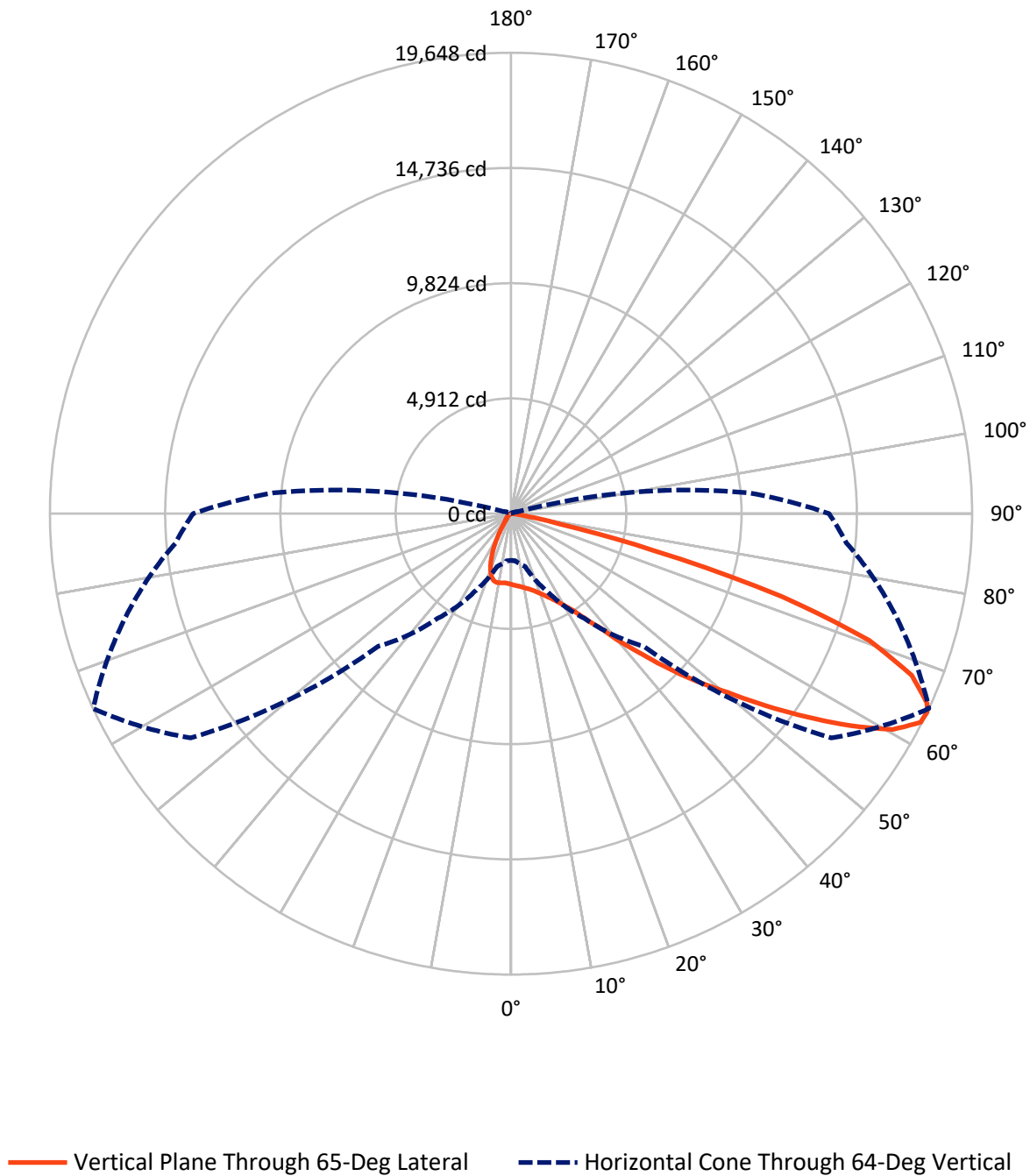


Based on 15 foot mounting height. Maximum calculated value = 21.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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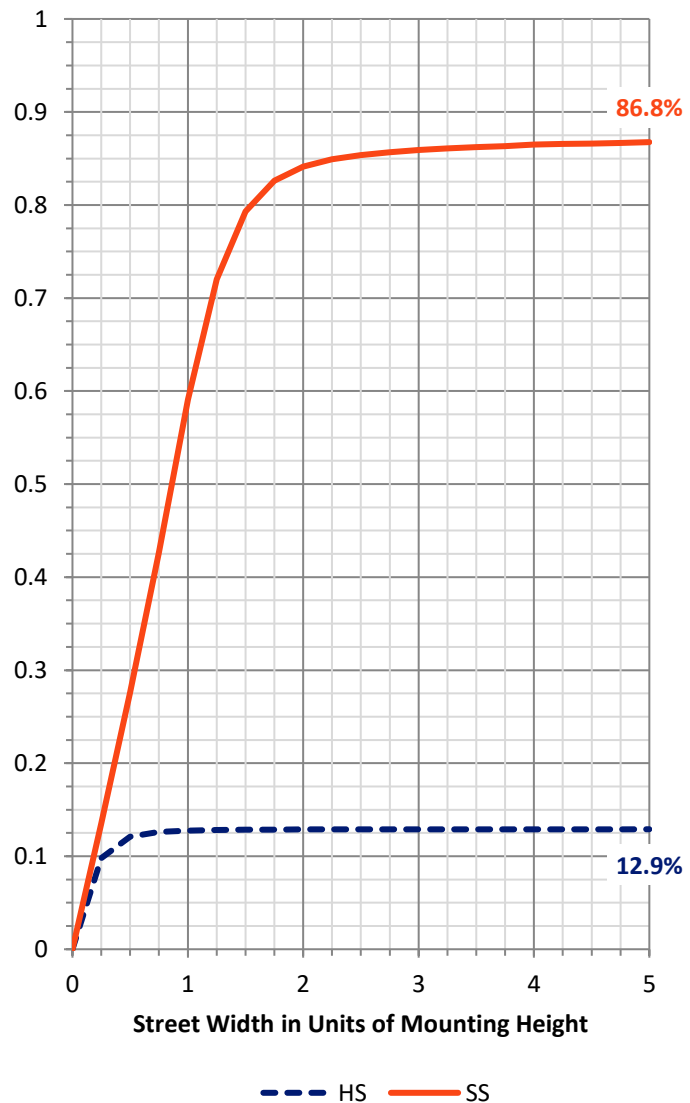
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2955.7	0.0	2955.7
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	19712.9	0.0	19712.9
	% Fixture	87.0	0.0	87.0
Total	Lumens	22668.6	0.0	22668.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.9	1.3
10°-20°	757.8	3.3
20°-30°	1218.0	5.4
30°-40°	2219.8	9.8
40°-50°	4523.4	20.0
50°-60°	6239.4	27.5
60°-70°	5247.9	23.2
70°-80°	2055.6	9.1
80°-90°	121.9	0.5
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°	22668.6	100.0
0°-180°	22668.6	100.0

Coefficient of Utilization



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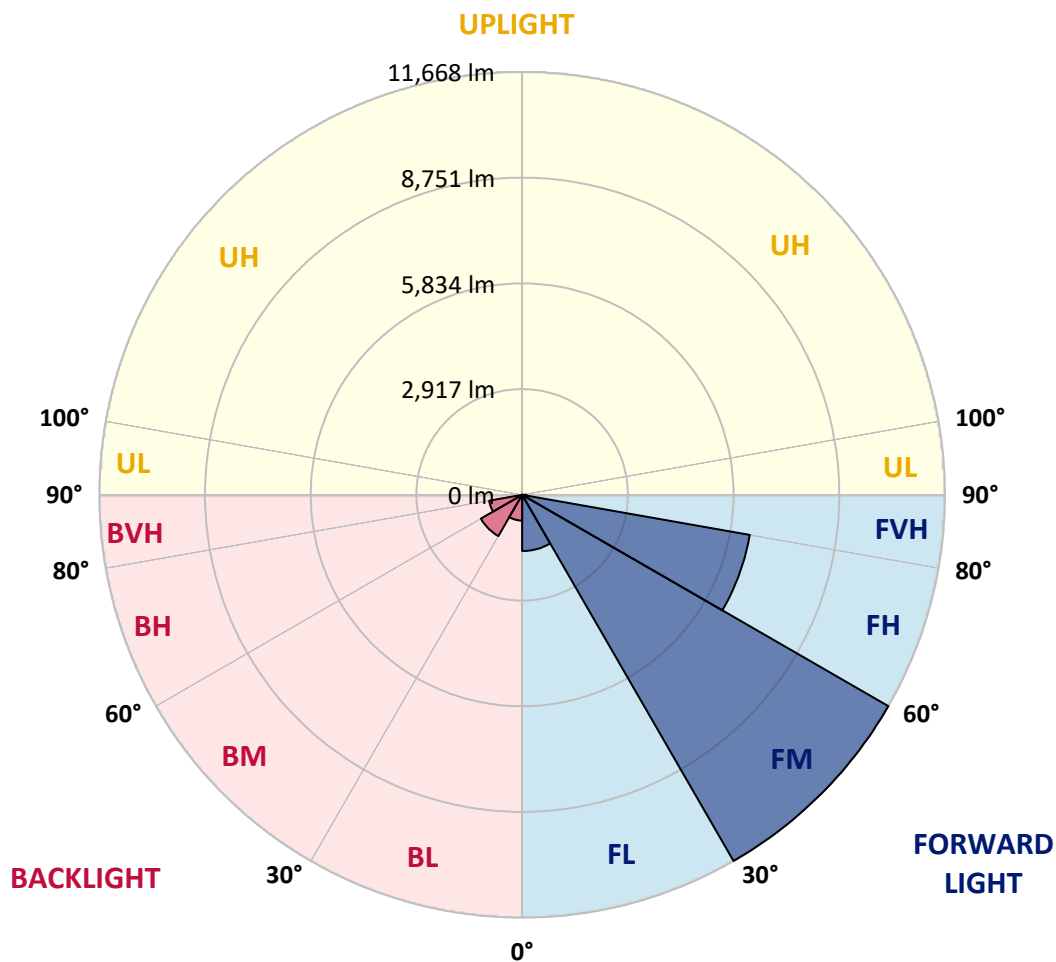
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1550.3	6.8			
FM	(30°-60°)	11667.7	51.5			
FH	(60°-80°)	6378.8	28.1			G3/7500
FVH	(80°-90°)	116.2	0.5			G2/225
BL	(0°-30°)	710.4	3.1	B2/1000		
BM	(30°-60°)	1314.9	5.8	B2/2500		
BH	(60°-80°)	924.7	4.1	B2/1000		G2/1000
BVH	(80°-90°)	5.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9
2.5°	3137.5	3109.3	3106.2	3102.2	3090.5	3082.7	3069.4	3057.6	3040.4	3024.7	3014.6
5°	3182.1	3150.8	3150.0	3150.8	3140.6	3131.2	3116.3	3096.8	3069.4	3041.2	3023.2
7.5°	3188.4	3159.4	3161.8	3164.9	3163.3	3163.3	3160.2	3147.7	3122.6	3084.2	3062.3
10°	3217.3	3191.5	3189.9	3188.4	3186.0	3193.1	3210.3	3215.8	3192.3	3153.1	3123.4
12.5°	3285.5	3257.3	3255.7	3250.2	3244.8	3250.2	3275.3	3290.2	3275.3	3228.3	3193.9
15°	3377.9	3348.1	3345.0	3339.5	3335.6	3345.8	3366.1	3381.8	3364.6	3312.1	3269.0
17.5°	3483.6	3446.8	3455.4	3450.7	3451.5	3458.5	3482.8	3498.4	3476.5	3413.9	3359.9
20°	3600.2	3561.9	3578.3	3584.6	3582.2	3597.9	3629.2	3643.3	3607.3	3524.3	3458.5
22.5°	3733.3	3694.2	3723.2	3745.9	3724.7	3758.4	3802.2	3810.9	3764.7	3650.3	3565.8
25°	3906.4	3860.2	3893.9	3919.7	3876.6	3929.9	3994.9	4012.1	3958.8	3823.4	3711.4
27.5°	4182.8	4120.1	4124.1	4117.8	4064.6	4124.8	4218.8	4257.2	4194.5	4030.1	3895.4
30°	4802.1	4694.1	4564.9	4391.1	4290.8	4374.6	4500.7	4568.0	4493.6	4268.9	4099.0
32.5°	5913.2	5742.5	5475.5	4971.3	4629.1	4676.9	4851.5	4955.6	4887.5	4622.0	4403.6
35°	7509.8	7259.2	6780.8	6118.4	5289.2	5083.2	5301.7	5532.7	5466.9	5178.0	4903.9
37.5°	9407.8	9082.9	8429.0	7530.1	6327.4	5700.2	5902.3	6184.9	6220.2	5885.8	5558.5
40°	11002.8	10665.3	10111.0	9154.9	7816.7	6723.6	6697.8	7177.8	7136.3	6729.9	6336.8
42.5°	12169.5	11836.7	11473.4	10735.0	9685.8	8403.2	7765.8	8190.2	8136.9	7615.5	7160.5
45°	12845.2	12523.4	12315.9	12017.6	11423.3	10800.8	9211.3	9407.8	9205.8	8542.5	7996.8
47.5°	13035.5	12704.3	12683.1	12850.7	12988.5	13098.1	11043.5	10692.7	10303.6	9419.6	8840.9
50°	12401.2	12199.2	12492.1	13196.8	14173.9	14821.5	13107.5	11983.1	11438.9	10369.3	9691.3
52.5°	10531.4	10502.5	11312.1	12763.8	14826.2	16301.4	15107.3	13593.0	12576.6	11267.4	10528.3
55°	8061.8	8053.9	9116.5	11049.0	14459.7	16786.0	16800.1	15300.7	13658.7	12117.0	11330.1
57.5°	5491.2	5580.4	7014.9	8724.2	12499.1	16345.2	17840.0	17050.7	14757.3	12925.8	12085.7
60°	3431.9	3467.9	4679.2	6645.3	9550.3	14229.5	18135.1	18683.2	15706.3	13594.5	12757.5
62.5°	2385.8	2397.5	2919.0	4759.1	6730.7	10428.1	17581.6	19591.5	16577.8	14118.4	13304.0
64°	1992.7	2013.9	2333.3	3656.6	5445.8	7992.1	16667.0	19647.9	16995.1	14345.4	13548.3
65°	1769.6	1800.1	2042.1	3024.7	4754.4	6386.1	15624.1	19482.7	17222.2	14455.0	13650.9
67.5°	1391.4	1384.3	1504.9	1945.0	3432.7	3488.3	11815.5	18418.6	17439.8	14475.4	13666.6
70°	1216.8	1225.4	1282.6	1405.5	2416.3	2194.0	6119.1	16188.6	16674.1	13917.1	13063.7
72.5°	950.6	952.9	1088.4	1216.8	1599.7	1457.2	2630.1	12074.7	13846.7	12031.7	11126.5
75°	631.9	661.6	808.1	1057.8	1094.6	988.1	1147.1	6314.9	8392.2	8043.0	7156.6
77.5°	424.4	439.3	537.9	781.4	977.2	628.0	635.8	2114.1	3468.7	3108.5	2710.7
80°	269.4	279.5	353.9	541.8	756.4	457.3	375.1	751.7	974.8	647.5	527.0
82.5°	183.2	194.2	236.5	390.7	484.7	411.9	223.9	348.4	382.1	169.1	127.6
85°	82.2	113.5	166.8	260.0	315.5	213.0	137.8	173.8	209.8	78.3	43.8
87.5°	15.7	23.5	97.1	140.2	94.7	50.9	67.3	65.8	92.4	31.3	14.1
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°	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9
2.5°	3006.7	2997.3	2983.2	2968.4	2951.9	2944.1	2940.2	2933.9	2932.3	2901.8
5°	3012.2	2988.7	2962.1	2933.9	2904.1	2886.9	2874.4	2858.7	2851.7	2822.7
7.5°	3045.9	3007.5	2967.6	2919.8	2858.7	2789.0	2696.7	2644.2	2602.7	2579.2
10°	3103.8	3049.0	2987.9	2883.0	2710.0	2493.9	2261.3	2105.5	2024.1	2016.2
12.5°	3165.7	3092.8	2993.4	2749.1	2367.8	1982.6	1631.0	1423.5	1326.4	1322.5
15°	3233.8	3142.2	2946.4	2470.4	1888.6	1398.4	1052.4	873.0	785.3	780.7
17.5°	3316.0	3194.6	2820.4	2076.5	1364.0	888.7	662.4	574.7	548.9	545.8
20°	3406.0	3236.9	2601.1	1632.6	909.1	604.5	509.0	463.5	444.0	440.8
22.5°	3501.6	3253.4	2314.5	1194.1	626.4	483.9	420.5	377.4	357.0	353.9
25°	3626.9	3243.2	1972.4	823.7	495.6	403.2	339.8	303.8	284.2	282.7
27.5°	3793.6	3203.3	1583.2	589.6	420.5	333.6	274.0	241.2	228.6	227.1
30°	3969.8	3081.1	1202.7	464.3	354.7	272.5	220.8	196.5	187.1	185.6
32.5°	4207.8	2904.9	862.1	382.9	294.4	222.4	180.9	162.1	155.8	155.0
35°	4634.6	2747.5	584.1	315.5	240.4	182.4	151.1	137.8	134.7	134.7
37.5°	5212.4	2590.2	425.2	263.9	195.8	151.9	129.2	120.6	119.8	119.8
40°	5881.1	2400.7	339.0	222.4	163.6	130.0	112.0	105.7	107.3	107.3
42.5°	6557.6	2145.4	291.3	188.7	140.2	112.8	97.9	91.6	94.7	95.5
45°	7219.3	1806.4	256.8	162.1	122.9	97.9	84.6	79.1	83.0	83.0
47.5°	7810.4	1460.3	226.3	140.9	108.1	85.3	71.3	65.8	68.9	70.5
50°	8393.8	1120.5	198.1	124.5	97.1	73.6	59.5	54.8	57.9	59.5
52.5°	8909.1	906.7	173.0	111.2	86.9	62.6	49.3	44.6	48.5	49.3
55°	9356.9	739.2	149.6	99.4	76.0	52.5	39.9	36.8	40.7	41.5
57.5°	9735.9	611.5	129.2	88.5	66.6	44.6	33.7	31.3	34.5	36.0
60°	9999.0	497.2	109.6	78.3	57.2	37.6	28.2	25.8	28.2	28.2
62.5°	10141.5	403.2	94.0	68.9	49.3	32.9	24.3	19.6	21.1	21.1
64°	10158.7	357.8	85.3	63.4	44.6	30.5	21.1	15.7	16.4	16.4
65°	10141.5	329.6	78.3	59.5	42.3	29.0	19.6	12.5	12.5	13.3
67.5°	9916.0	270.9	64.2	50.1	35.2	24.3	14.1	7.8	7.8	7.8
70°	9301.3	208.3	53.2	40.7	29.0	20.4	11.0	5.5	4.7	4.7
72.5°	7467.5	143.3	42.3	30.5	22.7	16.4	7.8	3.1	1.6	1.6
75°	3494.5	91.6	29.8	20.4	15.7	12.5	5.5	1.6	0.0	0.0
77.5°	1022.6	52.5	18.8	13.3	11.0	8.6	4.7	0.8	0.0	0.0
80°	208.3	21.1	12.5	10.2	8.6	7.0	3.9	0.8	0.0	0.0
82.5°	35.2	11.0	10.2	7.8	7.0	5.5	3.1	0.0	0.0	0.0
85°	13.3	7.8	8.6	7.0	6.3	4.7	2.3	0.0	0.0	0.0
87.5°	7.8	7.8	7.8	7.0	5.5	3.1	1.6	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)