

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: P622770

Luminaire Tested: **PRV-M-PA6C-8540-U-T4W-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622770
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-PA6C-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: 34960.9 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G5

Input Watts (W): 457.2
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

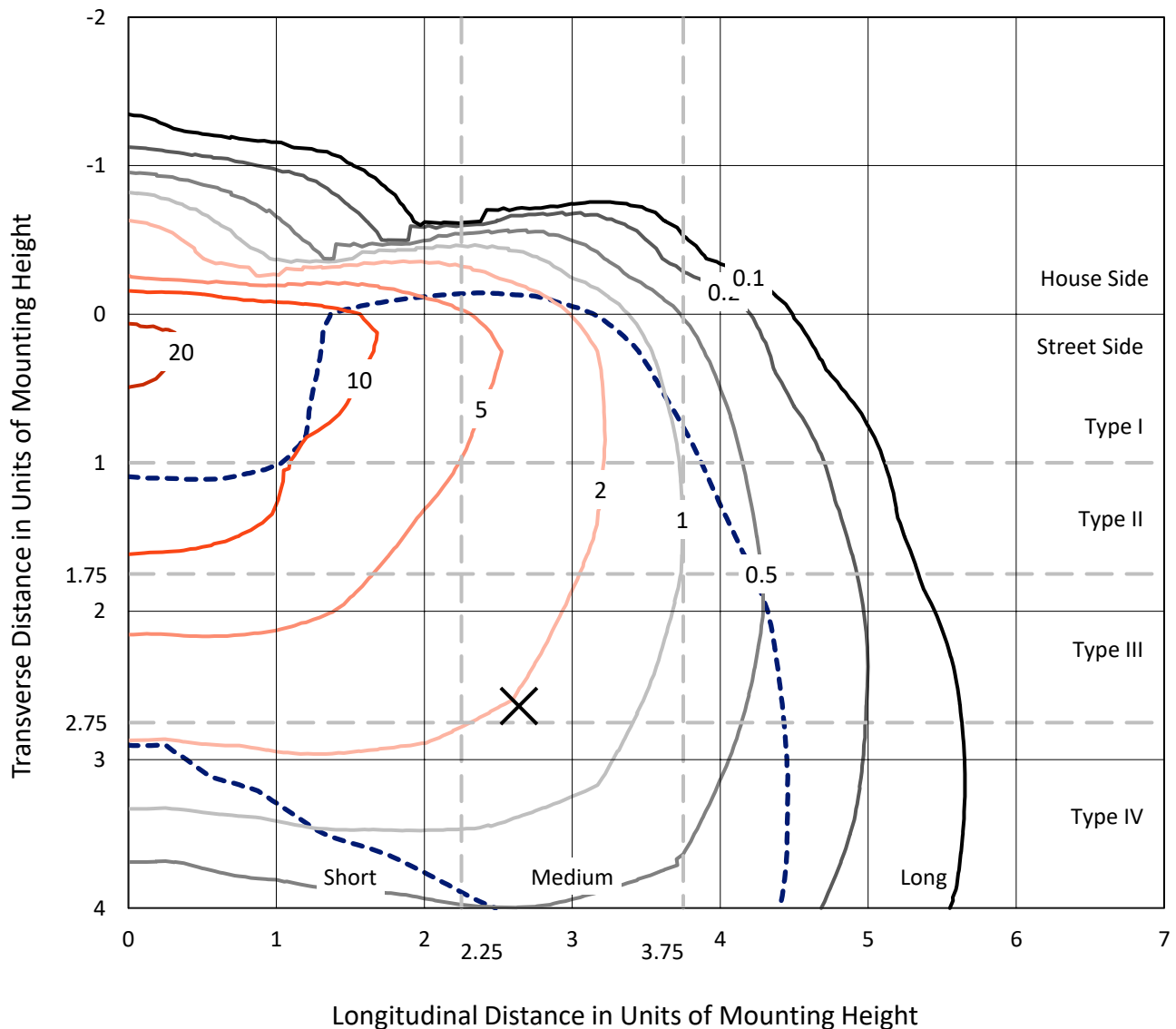


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

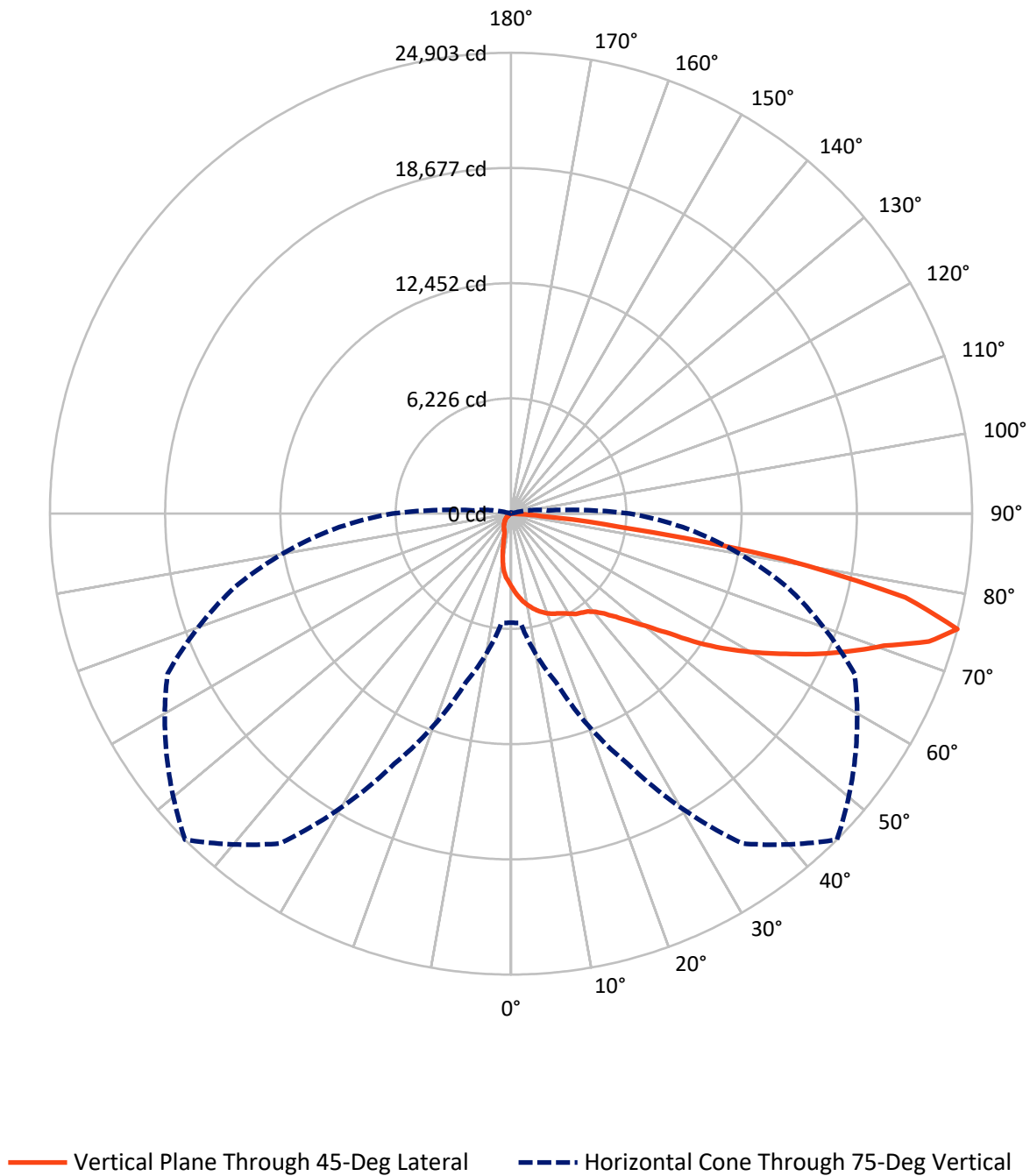


Based on 15 foot mounting height. Maximum calculated value = 24.6 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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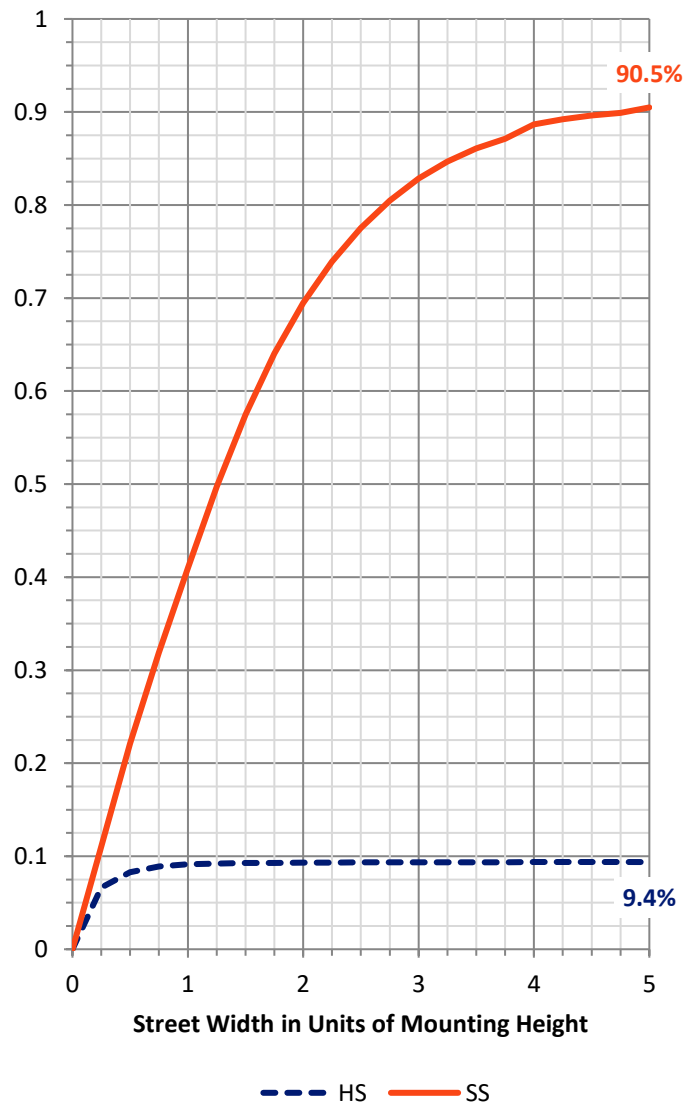
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3303.8	0.0	3303.8
	% Fixture	9.4	0.0	9.4
Street Side	Lumens	31657.1	0.0	31657.1
	% Fixture	90.6	0.0	90.6
Total	Lumens	34960.9	0.0	34960.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.1	1.1
10°-20°	1081.4	3.1
20°-30°	1762.1	5.0
30°-40°	2486.9	7.1
40°-50°	3973.2	11.4
50°-60°	6737.6	19.3
60°-70°	9766.8	27.9
70°-80°	7950.0	22.7
80°-90°	826.7	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°	34960.9	100.0
0°-180°	34960.9	100.0

Coefficient of Utilization



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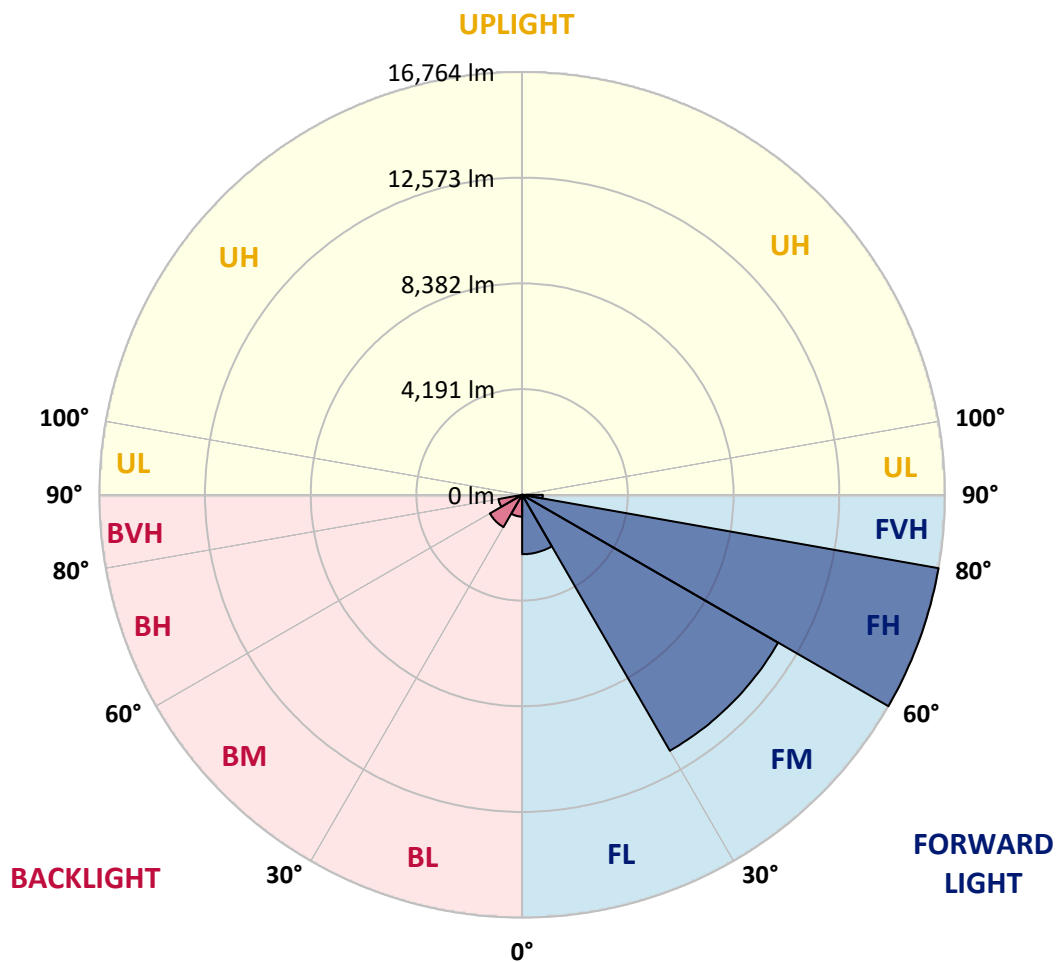
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2356.0	6.7			
FM	(30°-60°)	11719.1	33.5			
FH	(60°-80°)	16763.8	47.9			G5
FVH	(80°-90°)	818.3	2.3			G5
BL	(0°-30°)	863.7	2.5	B2/1000		
BM	(30°-60°)	1478.6	4.2	B2/2500		
BH	(60°-80°)	953.1	2.7	B2/1000		G2/1000
BVH	(80°-90°)	8.5	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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0
2.5°	4376.4	4378.7	4361.2	4321.6	4276.2	4238.9	4171.4	4104.9	4033.9	3965.1	3934.8
5°	4816.9	4808.6	4774.9	4702.6	4615.2	4531.4	4393.9	4266.9	4121.2	3980.2	3916.2
7.5°	5225.8	5204.8	5151.2	5047.5	4934.5	4795.9	4618.8	4433.5	4231.9	4049.0	3954.6
10°	5581.1	5562.5	5484.4	5349.3	5196.7	5033.5	4836.7	4640.9	4424.2	4187.6	4070.0
12.5°	5890.0	5855.0	5760.6	5589.4	5408.7	5246.8	5046.4	4868.1	4612.9	4360.1	4214.4
15°	6153.3	6114.8	6006.5	5795.5	5584.7	5442.6	5261.9	5084.8	4841.3	4539.5	4371.7
17.5°	6333.8	6297.7	6180.1	5943.5	5729.1	5609.2	5474.0	5299.2	5054.5	4727.1	4539.5
20°	6393.3	6353.7	6255.8	6014.6	5822.4	5758.3	5642.9	5494.9	5256.1	4919.4	4717.8
22.5°	6336.2	6297.7	6230.2	6008.8	5874.8	5870.2	5793.3	5674.4	5446.0	5107.0	4889.1
25°	6255.8	6219.7	6163.8	5975.0	5908.6	5971.5	5934.2	5835.2	5646.4	5307.3	5094.1
27.5°	6224.4	6184.8	6134.6	5979.7	5976.2	6098.5	6099.6	6027.5	5850.3	5515.9	5293.4
30°	6276.8	6232.5	6176.6	6044.9	6088.1	6274.5	6328.0	6246.5	6041.4	5709.3	5497.3
32.5°	6408.5	6329.2	6260.5	6141.6	6212.7	6455.1	6538.9	6410.8	6192.9	5907.4	5721.0
35°	6634.5	6512.1	6398.0	6268.6	6324.5	6570.4	6693.9	6596.1	6377.0	6147.4	5992.5
37.5°	7120.4	6966.6	6779.0	6521.5	6486.5	6710.2	6901.3	6888.5	6663.6	6463.2	6343.2
40°	8070.0	7876.6	7605.0	7049.3	6766.1	6965.4	7227.6	7294.0	7067.9	6894.3	6809.3
42.5°	9627.8	9432.1	8943.9	7894.0	7207.7	7376.7	7671.5	7847.5	7615.5	7502.5	7426.8
45°	11262.6	11112.3	10612.4	9145.4	7940.6	7958.1	8271.5	8599.0	8453.3	8327.5	8221.4
47.5°	12502.3	12356.7	11997.8	10660.2	9067.4	8680.6	9010.3	9506.6	9439.1	9330.7	9217.7
50°	13386.6	13230.5	13001.0	12087.5	10527.4	9589.4	9883.0	10558.8	10726.6	10662.5	10451.6
52.5°	14215.1	14057.8	13860.9	13330.7	12173.7	10768.5	10921.1	11840.4	12129.5	12162.1	11701.9
55°	14902.5	14779.0	14861.8	14525.0	13884.2	12347.4	12133.0	13171.1	13620.8	13855.0	13130.4
57.5°	15334.8	15199.7	15651.8	15838.2	15614.5	13812.0	13429.8	14633.4	15098.3	15683.3	14463.3
60°	15763.6	15608.6	16233.2	17005.7	17245.7	15230.0	14861.8	16106.2	16586.2	17781.7	15807.9
62.5°	16010.6	15840.5	16701.5	17894.7	18557.7	16679.5	16390.5	17602.2	18114.9	19974.6	16948.6
65°	15160.1	15119.3	16841.4	18478.5	19639.0	18273.4	18024.0	19094.9	19643.7	21981.0	17866.7
67.5°	14110.2	14102.1	16403.3	18844.3	20524.5	19821.9	19578.4	20624.7	21068.7	23173.0	18027.6
70°	13341.2	13343.6	15615.6	19327.9	21540.6	21363.5	21105.9	22056.7	21963.5	22300.2	16576.9
72.5°	11052.8	11163.5	13584.7	18612.5	22771.0	23606.4	22486.7	22711.5	20590.9	17273.7	12211.0
75°	5884.1	5931.9	9435.5	14911.8	21751.4	24903.2	22709.2	20468.6	15492.1	9622.0	6415.4
77.5°	1980.8	1938.9	3287.0	8046.7	16593.3	21773.6	18613.6	14396.9	8289.1	3172.8	2072.8
80°	625.7	646.7	1063.8	2558.7	8757.5	14939.9	11204.3	7130.9	2479.4	709.6	409.0
82.5°	282.0	305.3	489.4	1123.2	3440.7	5934.2	5421.6	2462.0	850.6	227.2	152.6
85°	106.0	113.0	240.0	639.7	1397.0	1628.9	1881.8	901.9	546.5	89.7	60.6
87.5°	25.6	29.1	99.0	207.4	326.3	221.4	309.9	333.2	306.5	31.5	24.4
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°	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0
2.5°	3905.7	3841.6	3797.3	3733.2	3674.9	3653.9	3622.5	3613.2	3614.3	3586.4
5°	3859.0	3741.3	3644.6	3536.3	3439.6	3365.0	3285.8	3241.5	3221.7	3211.2
7.5°	3869.5	3697.1	3528.1	3325.4	3108.7	2929.3	2767.3	2674.1	2624.0	2614.7
10°	3955.8	3716.9	3434.9	3050.4	2655.5	2356.0	2125.3	1998.3	1922.5	1912.1
12.5°	4075.7	3751.8	3284.6	2690.4	2138.1	1735.0	1482.1	1399.4	1376.0	1373.8
15°	4208.6	3769.4	3064.4	2261.6	1611.4	1267.7	1152.3	1162.8	1176.8	1178.0
17.5°	4353.1	3754.2	2772.0	1797.8	1228.1	1071.9	1039.4	1069.7	1109.3	1110.4
20°	4508.0	3691.3	2425.9	1383.1	1052.1	995.0	992.8	1016.0	1058.0	1062.6
22.5°	4664.2	3573.6	2000.6	1118.6	965.9	953.1	946.1	961.3	1003.2	1007.9
25°	4823.8	3393.0	1582.3	965.9	913.5	907.7	897.2	906.5	941.5	947.3
27.5°	4990.5	3183.3	1247.9	869.2	854.1	851.7	848.2	844.8	876.2	883.2
30°	5146.6	2883.8	991.6	800.5	783.0	785.3	781.8	781.8	807.4	813.3
32.5°	5310.9	2568.0	831.9	738.7	711.9	708.5	711.9	715.4	731.7	737.6
35°	5489.1	2202.2	741.0	681.6	645.5	629.2	630.4	636.2	647.9	653.6
37.5°	5694.2	1852.7	680.4	629.2	584.9	558.1	544.1	544.1	556.9	556.9
40°	5943.5	1483.2	636.2	580.3	529.0	489.4	462.6	442.8	436.9	446.2
42.5°	6245.3	1180.3	598.9	541.8	476.5	427.6	378.7	337.9	327.5	330.9
45°	6624.0	924.0	563.9	502.2	423.0	360.0	294.8	241.2	227.2	230.7
47.5°	7078.4	757.4	527.8	459.1	367.0	292.5	207.4	163.1	161.9	165.4
50°	7610.9	646.7	484.7	417.1	313.4	220.2	139.8	114.2	124.7	130.5
52.5°	8200.5	583.7	442.8	376.4	257.5	153.8	99.0	90.9	104.8	109.5
55°	8794.7	540.7	402.0	329.7	200.4	109.5	78.1	76.9	92.1	95.5
57.5°	9301.6	490.5	362.4	277.3	151.5	87.4	68.7	68.7	83.9	87.4
60°	9700.0	424.2	315.8	212.0	116.5	76.9	60.6	60.6	76.9	80.4
62.5°	10003.0	327.5	245.9	157.3	99.0	72.3	54.7	53.6	69.9	74.5
65°	10076.4	227.2	179.5	120.0	89.7	68.7	48.9	46.6	63.0	66.4
67.5°	9742.0	160.8	134.0	96.7	83.9	66.4	44.2	39.6	54.7	58.3
70°	8462.7	124.7	103.7	79.2	80.4	65.2	40.8	33.8	44.2	46.6
72.5°	5709.3	102.6	83.9	67.6	75.7	61.8	36.1	26.8	34.9	36.1
75°	2027.4	82.8	66.4	54.7	65.2	54.7	30.3	21.0	25.6	26.8
77.5°	364.7	60.6	47.8	39.6	50.1	43.1	24.4	15.1	18.6	18.6
80°	92.1	34.9	28.0	22.2	33.8	30.3	18.6	11.7	12.8	12.8
82.5°	38.4	18.6	18.6	15.1	18.6	18.6	11.7	7.0	8.1	8.1
85°	22.2	15.1	15.1	12.8	12.8	11.7	8.1	4.7	2.3	3.5
87.5°	15.1	14.0	12.8	11.7	10.5	7.0	4.7	2.3	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)