

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: P622852

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

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622852
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-PA6D-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: 52648.9 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - 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

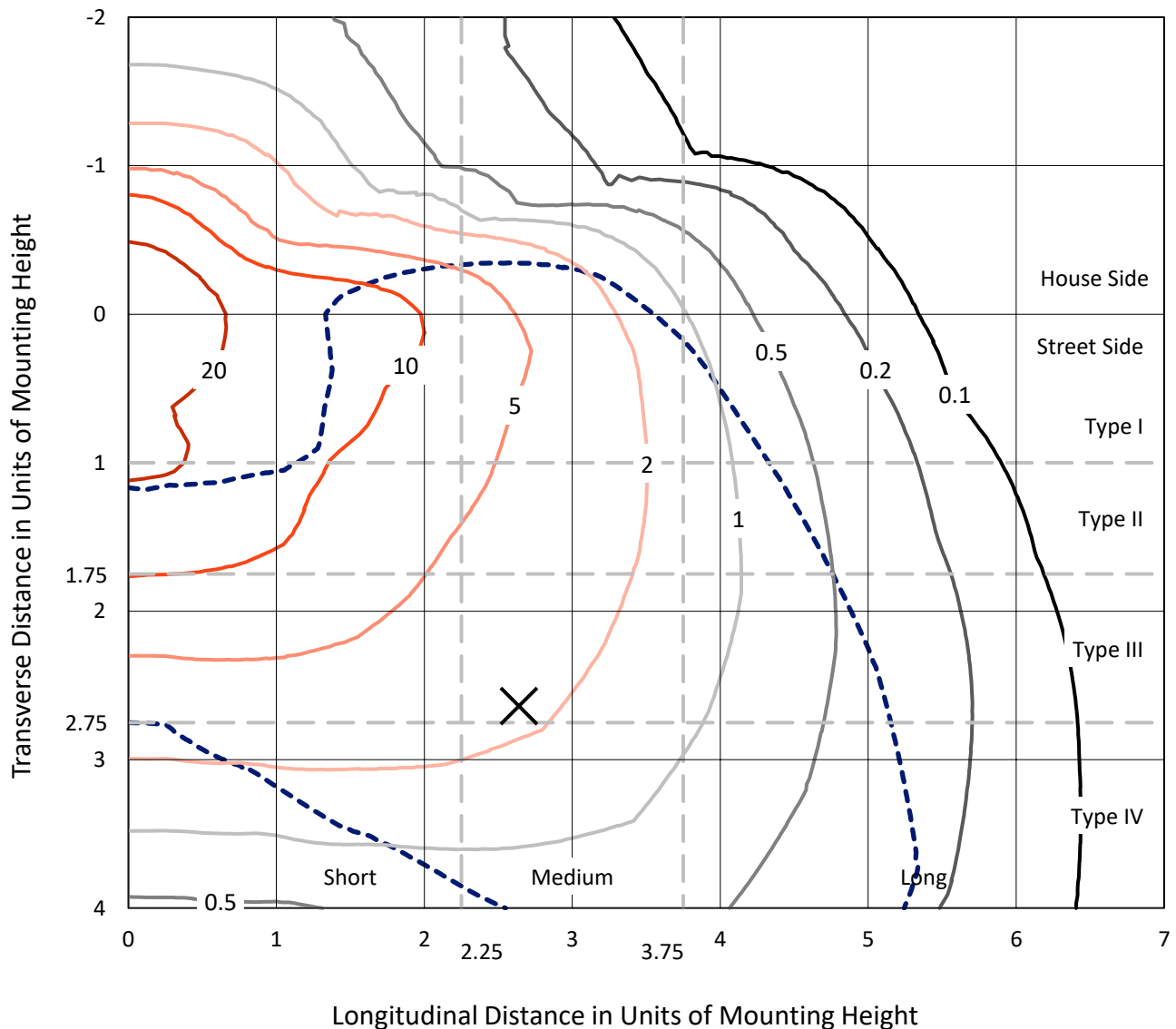


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

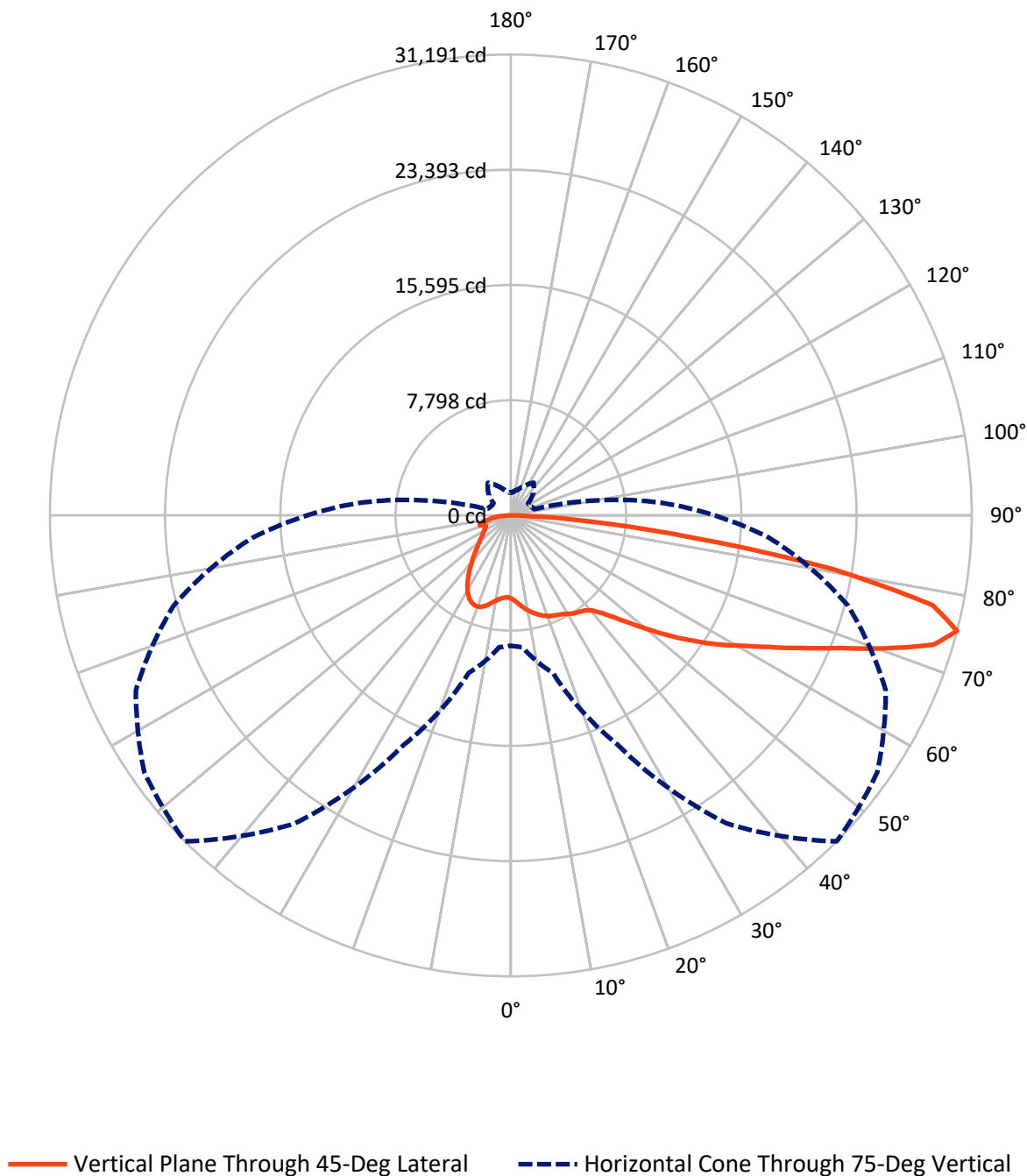


Based on 15 foot mounting height. Maximum calculated value = 30.8 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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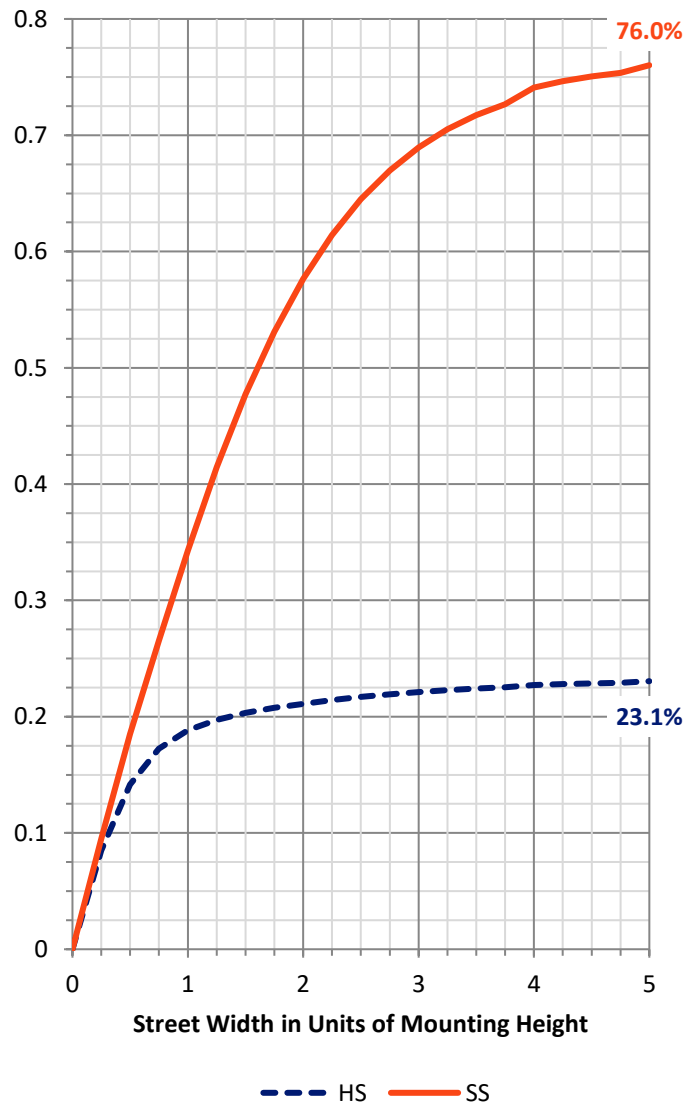
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12389.2	0.0	12389.2
	% Fixture	23.5	0.0	23.5
Street Side	Lumens	40259.7	0.0	40259.7
	% Fixture	76.5	0.0	76.5
Total	Lumens	52648.9	0.0	52648.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.9	1.1
10°-20°	1875.2	3.6
20°-30°	3227.4	6.1
30°-40°	4446.8	8.4
40°-50°	6194.8	11.8
50°-60°	9274.4	17.6
60°-70°	13145.7	25.0
70°-80°	11822.1	22.5
80°-90°	2095.5	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°	52648.9	100.0
0°-180°	52648.9	100.0

Coefficient of Utilization



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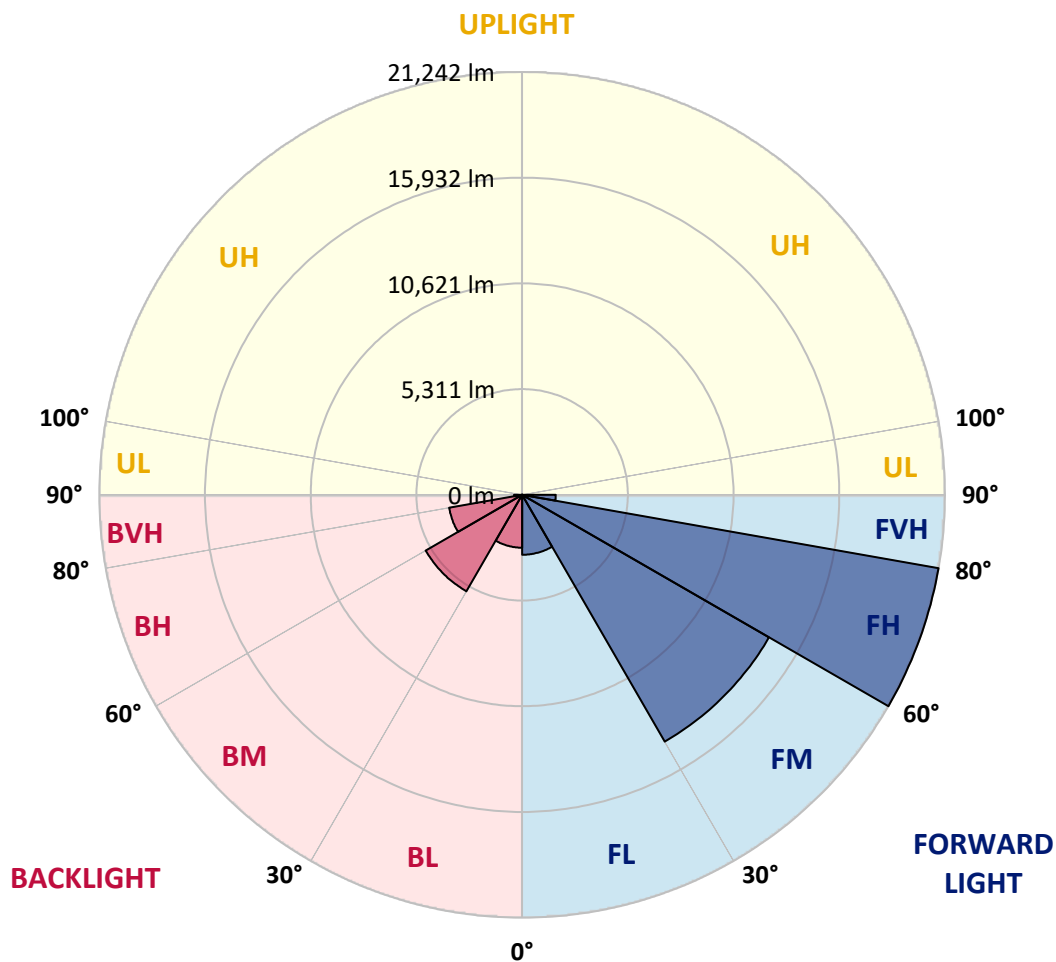
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3011.4	5.7			
FM	(30°-60°)	14317.1	27.2			
FH	(60°-80°)	21242.4	40.3			G5
FVH	(80°-90°)	1688.9	3.2			G5
BL	(0°-30°)	2658.1	5.0	B4/5000		
BM	(30°-60°)	5599.0	10.6	B4/8500		
BH	(60°-80°)	3725.5	7.1	B4/5000		G4/5000
BVH	(80°-90°)	406.7	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5623.0	5623.0	5623.0	5623.0	5623.0	5623.0	5623.0	5623.0	5623.0	5623.0	5623.0
2.5°	5938.7	5923.3	5914.4	5867.1	5831.3	5810.9	5762.3	5726.5	5676.8	5638.4	5626.9
5°	6355.2	6325.8	6301.5	6222.3	6138.0	6054.9	5937.4	5835.2	5724.0	5639.7	5611.6
7.5°	6764.0	6741.1	6691.2	6569.8	6444.6	6309.2	6139.3	5988.5	5831.3	5713.8	5669.1
10°	7123.1	7093.7	7008.1	6870.1	6707.8	6559.6	6368.0	6195.5	6014.1	5870.9	5813.5
12.5°	7432.2	7388.9	7280.3	7109.0	6916.1	6764.0	6583.9	6425.5	6226.1	6060.0	5991.0
15°	7690.4	7640.5	7528.1	7305.8	7088.6	6962.0	6804.9	6655.4	6449.7	6256.8	6178.9
17.5°	7878.2	7834.8	7708.2	7447.6	7227.9	7130.7	7004.2	6871.4	6670.8	6457.4	6383.3
20°	7949.7	7897.3	7787.5	7517.9	7322.4	7277.7	7180.6	7068.1	6880.3	6669.5	6589.0
22.5°	7885.8	7842.4	7754.2	7507.6	7362.0	7368.4	7309.6	7234.2	7073.2	6865.0	6796.0
25°	7790.0	7744.0	7677.5	7468.0	7391.4	7448.9	7427.1	7390.1	7271.3	7070.6	7000.4
27.5°	7751.7	7698.1	7646.9	7470.6	7451.4	7565.1	7574.1	7575.4	7475.7	7272.6	7220.2
30°	7862.8	7802.8	7731.3	7546.0	7560.0	7727.4	7782.3	7756.8	7649.4	7466.8	7420.8
32.5°	8201.5	8137.6	8008.5	7726.1	7692.9	7897.3	7963.8	7888.4	7787.5	7641.8	7623.9
35°	8964.2	8865.8	8607.8	8101.8	7865.4	8002.1	8095.4	8040.5	7958.6	7871.8	7892.2
37.5°	10211.3	10075.8	9660.6	8793.0	8191.2	8150.3	8280.6	8281.9	8206.5	8170.8	8225.7
40°	11679.3	11537.4	11105.6	9904.6	8823.6	8463.4	8582.1	8643.5	8575.8	8600.1	8680.6
42.5°	13106.5	12959.5	12650.3	11298.5	9675.8	9025.6	9048.5	9199.3	9131.6	9213.3	9355.2
45°	14250.0	14126.0	14002.1	12650.3	10855.2	9850.9	9686.1	9951.9	9927.6	10087.3	10285.3
47.5°	15057.5	14929.7	14945.0	13935.7	12260.6	10905.0	10506.4	10947.2	10961.2	11312.5	11531.1
50°	15707.8	15583.9	15624.8	15028.0	13675.0	12171.2	11541.3	12122.6	12351.4	12884.1	13146.0
52.5°	16443.8	16337.7	16427.1	16022.1	15164.8	13542.1	12744.9	13543.4	13898.6	14735.5	15002.5
55°	17273.0	17181.0	17463.3	17215.4	16773.4	14978.2	14082.6	15152.0	15595.4	16887.1	17226.9
57.5°	17938.6	17840.3	18436.9	18678.4	18482.9	16452.7	15567.3	16825.8	17275.5	19287.9	19616.3
60°	18706.5	18564.7	19312.1	20063.4	20290.8	17902.8	17238.4	18663.1	19101.4	21891.7	21988.9
62.5°	19174.2	19065.6	20071.1	21297.7	21913.5	19599.6	19148.6	20494.0	20968.0	24583.9	24117.5
65°	18522.6	18576.2	20488.9	22284.0	23385.4	21636.2	21250.4	22434.8	22920.3	26985.9	25551.1
67.5°	17178.4	17280.7	20009.7	22929.3	24890.5	23960.3	23463.3	24479.1	24811.3	28393.9	25792.6
70°	15591.6	15684.8	18473.9	23051.9	26299.8	26923.3	26184.8	26695.8	26272.9	27875.2	24029.3
72.5°	13211.2	13459.1	15612.0	21466.3	26911.8	29927.1	29113.2	28399.0	26189.9	24310.4	19822.0
75°	8821.1	8945.1	11045.5	17120.9	25434.8	31190.7	30283.6	27994.0	23623.0	17577.0	13784.9
77.5°	3898.2	4286.6	5741.9	10037.4	19873.0	29175.8	27785.7	23446.7	16383.7	9659.2	6845.8
80°	1428.4	1511.5	2241.0	4153.7	11527.2	22093.7	20154.1	14951.4	8281.9	3665.7	2557.9
82.5°	798.6	836.9	1218.9	1901.2	5174.6	12329.6	11213.0	6447.1	2855.6	1204.9	1074.5
85°	440.8	459.9	747.5	1193.4	2515.8	5357.3	4268.8	2186.1	1156.3	483.0	457.4
87.5°	194.2	227.5	402.5	604.3	1147.3	1225.3	1061.7	853.5	539.2	182.7	161.0
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°	5623.0	5623.0	5623.0	5623.0	5623.0	5623.0	5623.0	5623.0	5623.0	5623.0
2.5°	5614.1	5594.9	5583.5	5557.9	5542.5	5547.7	5550.2	5559.2	5574.5	5541.3
5°	5591.2	5564.3	5561.7	5561.7	5579.7	5607.8	5634.5	5656.3	5688.3	5646.1
7.5°	5641.0	5611.6	5612.9	5630.7	5666.5	5720.2	5778.9	5818.6	5864.6	5814.7
10°	5787.9	5752.2	5763.6	5777.7	5817.3	5879.9	5957.8	6026.8	6083.0	6046.0
12.5°	5966.8	5934.8	5942.5	5975.7	6024.2	6083.0	6154.6	6218.5	6273.4	6224.8
15°	6149.4	6135.4	6149.4	6203.2	6261.9	6290.0	6297.7	6328.4	6365.4	6324.5
17.5°	6364.1	6347.5	6362.8	6433.1	6447.1	6419.0	6362.8	6350.1	6371.8	6334.7
20°	6566.0	6558.3	6571.1	6606.9	6559.6	6457.4	6364.1	6327.1	6355.2	6318.1
22.5°	6783.2	6739.8	6727.0	6686.1	6555.7	6426.7	6327.1	6293.8	6334.7	6307.9
25°	6994.0	6890.6	6794.7	6638.8	6445.9	6330.9	6255.5	6226.1	6267.1	6255.5
27.5°	7190.8	7010.7	6776.8	6458.7	6244.0	6144.4	6111.2	6102.2	6154.6	6148.2
30°	7393.9	7106.4	6661.8	6184.0	5920.7	5842.8	5891.4	5950.2	6014.1	6025.6
32.5°	7598.4	7174.2	6461.2	5830.1	5543.9	5476.1	5611.6	5745.7	5832.6	5863.3
35°	7843.7	7222.7	6189.1	5414.8	5096.7	5078.8	5243.6	5418.7	5541.3	5564.3
37.5°	8146.5	7250.8	5855.6	4976.6	4631.6	4621.3	4772.2	4931.9	5035.3	5087.7
40°	8566.9	7256.0	5431.4	4488.5	4166.5	4152.5	4212.5	4298.1	4353.1	4411.8
42.5°	9163.5	7238.1	4998.3	3995.3	3762.8	3707.8	3682.3	3666.9	3580.0	3596.6
45°	9977.4	7216.4	4543.4	3566.0	3387.1	3267.1	3189.1	3075.4	2904.1	2901.6
47.5°	11017.4	7244.5	4137.1	3195.5	3065.1	2931.0	2778.9	2601.4	2416.1	2405.8
50°	12238.9	7363.3	3725.7	2876.0	2786.6	2657.6	2483.8	2271.7	2094.1	2077.5
52.5°	13638.0	7501.3	3316.9	2598.8	2573.3	2450.6	2260.2	2045.6	1906.3	1885.9
55°	15286.2	7749.1	2928.4	2368.8	2393.1	2285.7	2096.6	1897.4	1781.1	1769.6
57.5°	17054.4	7972.7	2569.4	2183.6	2239.8	2161.9	1986.8	1805.4	1718.5	1696.8
60°	18949.3	7765.7	2298.6	2023.8	2106.9	2067.3	1893.5	1719.8	1672.5	1661.0
62.5°	20532.3	6919.9	2082.6	1887.1	1993.2	1986.8	1822.0	1682.7	1672.5	1664.8
65°	21361.6	5525.9	1929.3	1772.2	1901.2	1911.4	1810.5	1696.8	1721.0	1730.0
67.5°	20997.4	4013.2	1825.8	1678.9	1824.5	2013.6	2110.7	2055.8	2058.4	2050.7
70°	19155.0	2826.2	1730.0	1606.0	1928.0	2563.0	2543.9	2260.2	2128.6	2053.3
72.5°	15535.3	2091.5	1621.4	1552.4	2202.7	2862.0	2501.7	2048.1	1845.0	1778.5
75°	10064.3	1655.9	1465.5	1428.4	2156.7	2698.5	2214.2	1801.5	1589.4	1524.3
77.5°	4620.1	1335.2	1268.8	1204.9	1818.1	2327.9	1865.4	1515.3	1335.2	1314.7
80°	1813.0	1102.6	1026.0	977.4	1488.5	2009.8	1638.0	1325.0	1162.7	1128.2
82.5°	905.9	871.4	793.4	743.6	1262.4	1814.3	1446.4	1142.2	999.1	936.5
85°	488.0	582.6	553.3	495.7	890.5	1349.3	1054.1	799.8	663.1	656.7
87.5°	241.5	265.8	223.6	236.4	456.1	724.4	650.4	502.1	379.4	397.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)