

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: STREETWORKS

Report Number: P320099

Luminaire Tested: **GAN-SA5D-760-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-760-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36849 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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: 24 FT

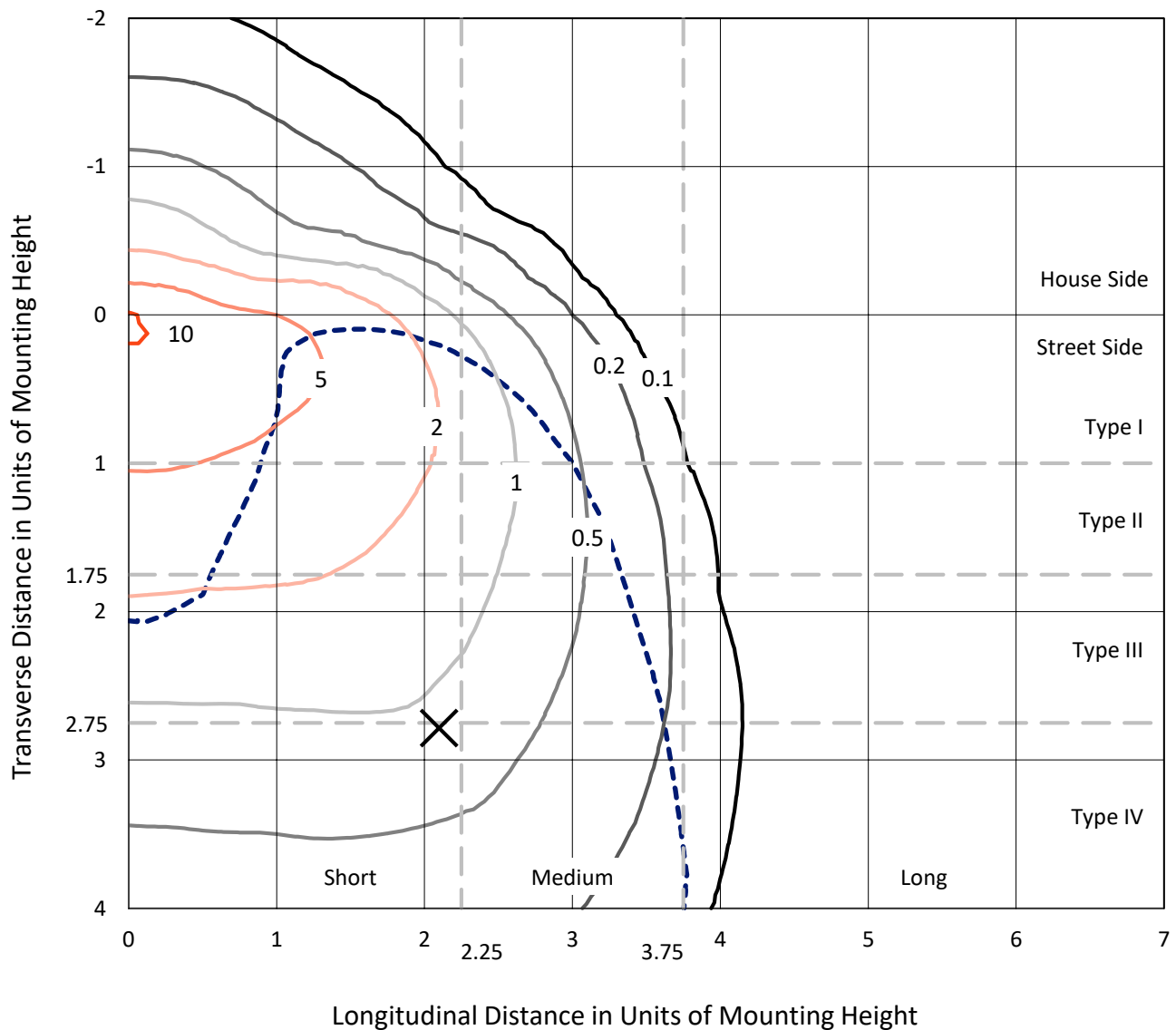


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Iso-Footcandle Lines of Horizontal Illumination

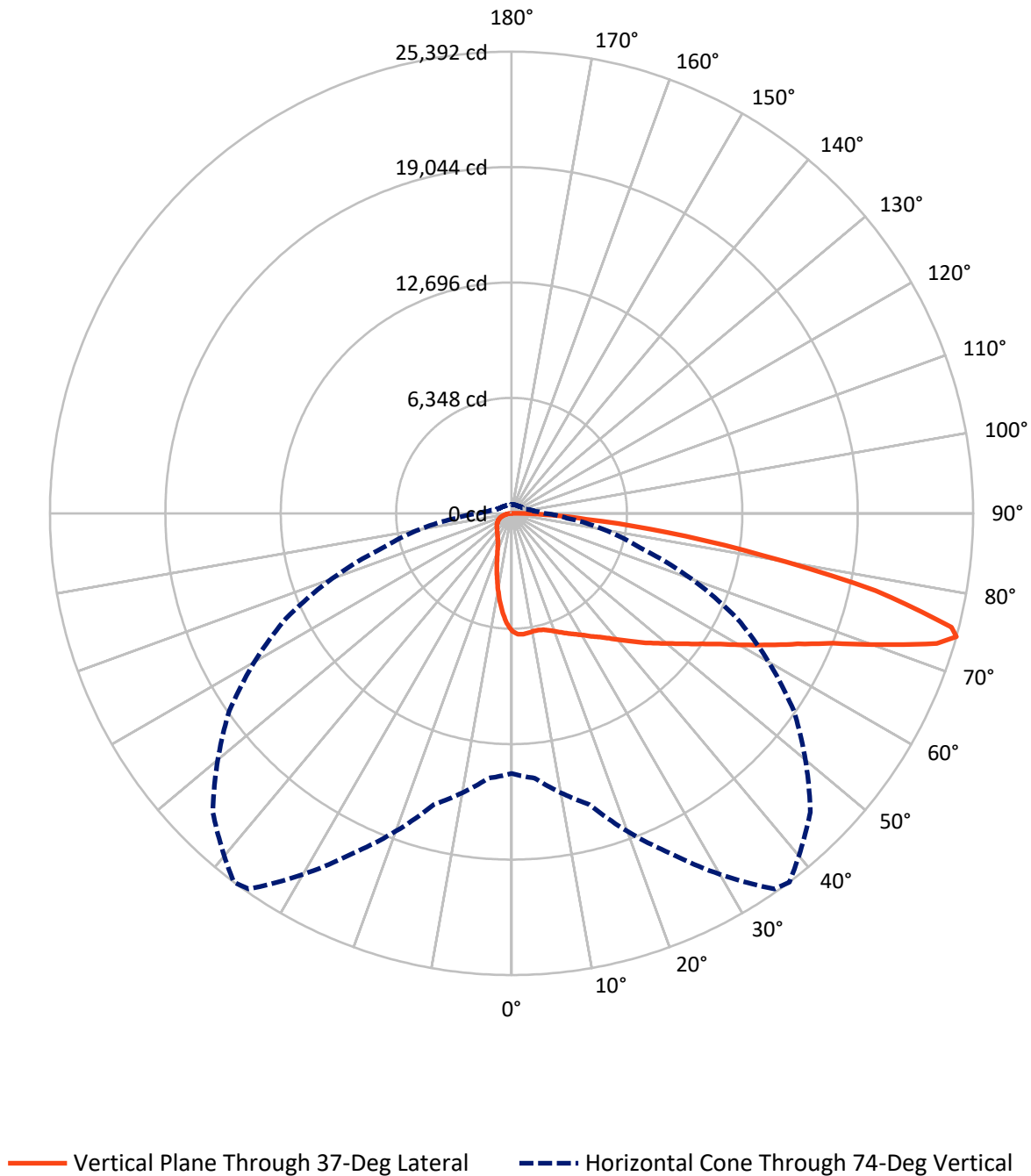
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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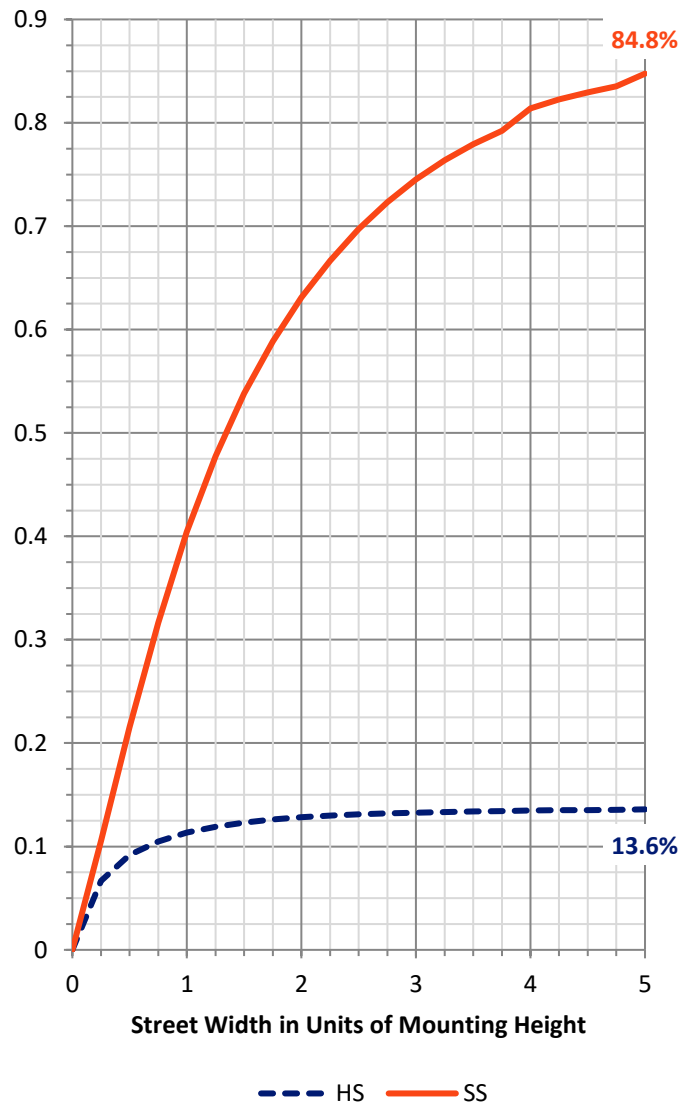
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5070.2	0.0	5070.2
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	31778.8	0.0	31778.8
	% Fixture	86.2	0.0	86.2
Total	Lumens	36849.0	0.0	36849.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.8	1.6
10°-20°	1465.5	4.0
20°-30°	2258.1	6.1
30°-40°	3283.6	8.9
40°-50°	4833.0	13.1
50°-60°	6787.0	18.4
60°-70°	8590.3	23.3
70°-80°	7564.1	20.5
80°-90°	1495.6	4.1
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°	36849.0	100.0
0°-180°	36849.0	100.0

Coefficient of Utilization



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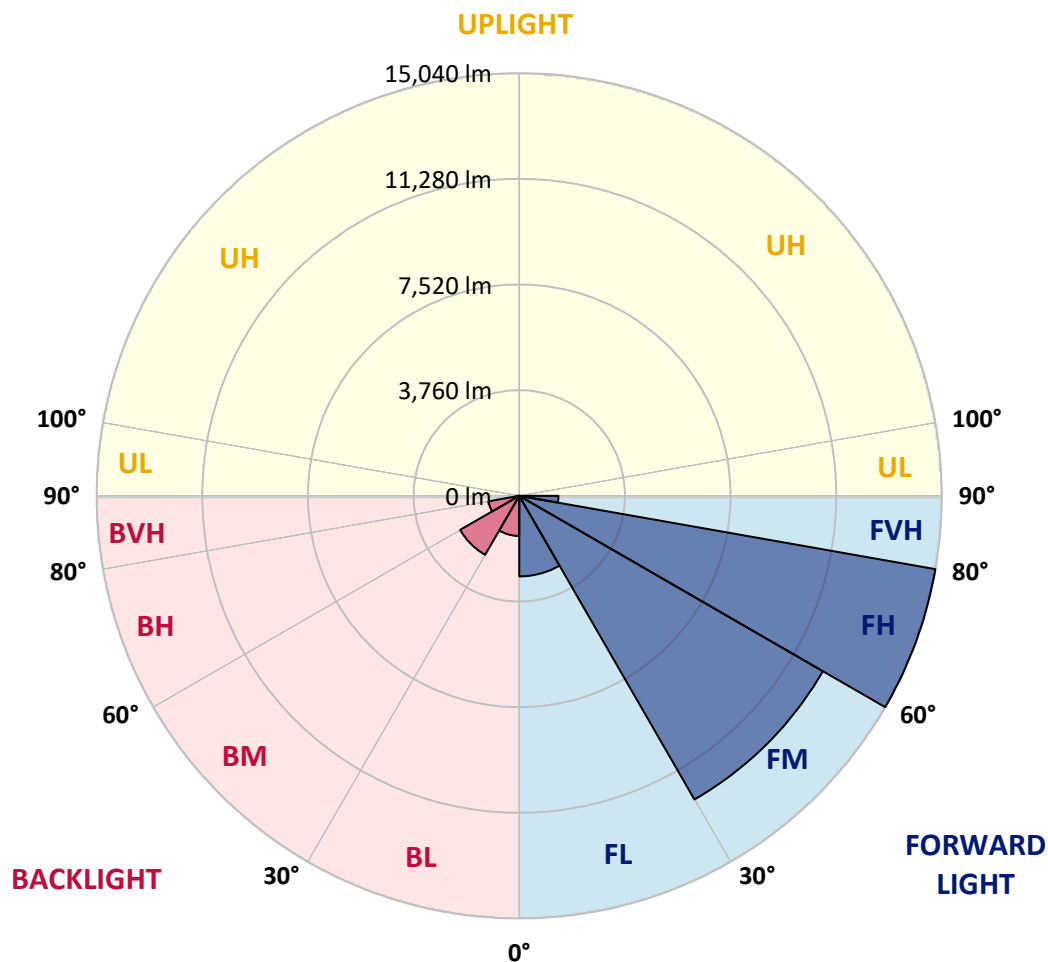
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2867.3	7.8			
FM	(30°-60°)	12477.4	33.9			
FH	(60°-80°)	15039.9	40.8			G5
FVH	(80°-90°)	1394.3	3.8			G5
BL	(0°-30°)	1428.1	3.9	B3/2500		
BM	(30°-60°)	2426.3	6.6	B2/2500		
BH	(60°-80°)	1114.5	3.0	B3/2500		G3/2500
BVH	(80°-90°)	101.3	0.3			G2/225
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	6492.7	6492.7	6492.7	6492.7	6492.7	6492.7	6492.7	6492.7	6492.7	6492.7	6492.7
2.5°	6714.6	6715.9	6714.6	6704.2	6679.6	6658.8	6641.9	6617.3	6562.7	6521.2	6458.9
5°	6778.2	6770.4	6765.2	6745.8	6706.8	6683.5	6651.0	6604.3	6514.7	6431.6	6330.4
7.5°	6748.4	6739.3	6727.6	6704.2	6660.1	6640.6	6595.2	6534.2	6426.5	6317.4	6172.0
10°	6656.2	6653.6	6648.4	6643.2	6605.6	6590.0	6548.5	6483.6	6377.1	6244.7	6074.7
12.5°	6553.7	6560.1	6580.9	6608.2	6591.3	6583.5	6557.6	6513.4	6404.4	6261.6	6056.5
15°	6488.8	6506.9	6562.7	6634.1	6648.4	6645.8	6639.3	6610.8	6495.2	6336.9	6098.1
17.5°	6466.7	6496.5	6603.0	6721.1	6762.6	6771.7	6774.3	6725.0	6596.5	6429.0	6140.9
20°	6506.9	6544.6	6700.3	6862.6	6928.8	6934.0	6922.3	6836.6	6692.5	6508.2	6164.3
22.5°	6628.9	6662.7	6857.4	7040.4	7115.7	7123.5	7088.4	6958.6	6793.8	6601.7	6196.7
25°	6863.9	6905.4	7100.1	7283.1	7322.1	7323.4	7272.8	7111.8	6926.2	6732.8	6266.8
27.5°	7170.2	7211.7	7387.0	7566.1	7545.3	7533.7	7464.9	7303.9	7098.8	6913.2	6391.4
30°	7511.6	7557.0	7723.2	7850.4	7801.0	7777.7	7721.9	7514.2	7339.0	7159.8	6582.2
32.5°	7864.6	7906.2	8051.6	8138.5	8076.2	8065.8	7981.5	7792.0	7651.8	7536.3	6891.1
35°	8226.8	8256.6	8399.4	8448.8	8365.7	8363.1	8339.7	8165.8	8077.5	8132.0	7340.3
37.5°	8596.7	8604.5	8726.5	8729.1	8704.5	8714.8	8739.5	8630.5	8655.1	8825.2	7924.4
40°	8926.4	8947.2	9035.5	9062.7	9105.5	9141.9	9265.2	9193.8	9384.6	9685.8	8651.2
42.5°	9170.4	9210.7	9352.2	9422.3	9561.1	9618.3	9792.2	9858.4	10242.6	10694.3	9515.7
45°	9376.8	9439.1	9666.3	9810.4	10045.3	10145.3	10394.5	10616.4	11212.2	11788.5	10425.6
47.5°	9600.1	9679.3	9963.5	10238.7	10558.0	10670.9	11124.0	11456.2	12246.7	12889.2	11283.6
50°	9928.5	9989.5	10267.3	10699.5	11098.0	11243.4	11870.3	12346.7	13298.1	13938.0	12027.4
52.5°	10386.7	10363.3	10598.3	11204.4	11739.2	11918.3	12667.3	13294.2	14363.8	14886.9	12655.6
55°	10847.5	10808.5	10973.4	11732.7	12486.9	12675.1	13544.7	14245.7	15377.5	15741.0	13137.2
57.5°	11360.2	11286.2	11425.1	12328.5	13338.4	13562.9	14527.3	15256.8	16374.4	16431.5	13443.5
60°	11888.5	11788.5	11944.3	13067.1	14419.6	14684.4	15677.4	16243.3	17314.2	16984.5	13542.1
62.5°	12350.6	12280.5	12520.6	13891.3	15638.4	15929.2	16806.6	17292.1	18240.9	17214.2	13186.5
65°	12754.3	12765.9	13181.3	14818.1	16997.5	17307.7	18102.1	18584.9	18970.4	17077.9	12354.5
67.5°	13235.8	13302.0	14010.7	16038.2	18708.2	19048.3	19986.8	19994.6	19378.0	16278.4	10716.4
70°	13938.0	14074.3	15151.7	17730.8	21140.7	21608.0	22332.3	20822.7	18805.6	14110.7	8431.9
72.5°	14561.1	14815.5	16365.3	19667.5	24105.4	24459.7	23704.3	20345.0	16413.3	10574.9	5253.1
74°	14308.0	14623.4	16586.0	20621.5	25221.7	25391.7	23240.9	18951.0	13684.9	7323.4	3052.9
75°	13762.8	14105.5	16264.1	20612.4	25080.2	24985.4	22122.0	17358.3	11270.6	4994.7	2031.4
77.5°	11107.1	11469.2	13704.4	17665.9	20564.4	20474.8	16993.6	11644.5	4936.3	1638.1	1031.9
80°	6457.6	6734.1	8507.2	11218.7	13866.7	14028.9	11175.9	5761.9	1941.8	920.3	699.6
82.5°	2868.6	3059.4	4109.5	5726.8	8368.3	8577.3	5852.7	3019.2	1199.4	559.4	420.6
85°	1882.1	2023.6	2494.8	2727.1	3984.9	4127.7	2864.7	2350.7	791.8	307.6	308.9
87.5°	1353.8	1490.1	1853.6	1618.6	1828.9	1731.5	1558.9	2175.5	318.0	175.2	103.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6492.7	6492.7	6492.7	6492.7	6492.7	6492.7	6492.7	6492.7	6492.7	6492.7	6492.7
2.5°	6431.6	6410.9	6364.1	6275.9	6226.6	6185.0	6116.2	6076.0	6057.8	6056.5	6064.3
5°	6272.0	6224.0	6103.2	5955.3	5837.2	5729.4	5595.7	5515.2	5458.1	5424.4	5433.5
7.5°	6086.4	6011.1	5821.6	5585.3	5395.8	5186.9	4980.5	4857.2	4761.1	4689.7	4702.7
10°	5959.2	5855.3	5578.9	5238.8	4923.4	4619.6	4335.4	4165.3	4030.3	3926.5	3934.3
12.5°	5916.3	5776.1	5393.2	4938.9	4496.3	4080.9	3709.7	3448.8	3309.9	3191.8	3200.9
15°	5922.8	5734.6	5237.5	4668.9	4112.1	3589.0	3138.6	2833.6	2645.3	2563.6	2564.9
17.5°	5928.0	5686.6	5073.9	4379.5	3731.8	3129.5	2640.2	2331.2	2153.4	2078.1	2079.4
20°	5911.1	5608.7	4871.4	4047.2	3334.6	2707.7	2233.9	1971.7	1836.7	1778.3	1778.3
22.5°	5889.1	5516.5	4643.0	3713.6	2942.6	2341.6	1943.1	1743.2	1665.3	1626.4	1625.1
25°	5899.5	5447.8	4409.3	3370.9	2581.7	2049.6	1749.7	1617.3	1565.4	1540.7	1539.4
27.5°	5955.3	5415.3	4193.9	3029.6	2266.3	1830.2	1619.9	1526.5	1492.7	1477.1	1477.1
30°	6056.5	5415.3	3969.3	2738.8	2004.1	1667.9	1520.0	1456.4	1433.0	1422.6	1422.6
32.5°	6233.0	5445.2	3752.5	2450.6	1795.1	1540.7	1436.9	1394.1	1375.9	1370.7	1370.7
35°	6536.8	5546.4	3541.0	2178.1	1626.4	1436.9	1357.7	1333.1	1320.1	1318.8	1322.7
37.5°	6963.8	5752.8	3342.4	1976.9	1507.0	1352.5	1291.5	1272.1	1264.3	1270.8	1275.9
40°	7501.2	6033.2	3162.0	1795.1	1416.1	1285.0	1230.5	1217.5	1213.6	1222.7	1230.5
42.5°	8150.2	6412.2	3014.0	1664.1	1346.0	1227.9	1178.6	1163.0	1159.1	1169.5	1179.9
45°	8852.4	6819.7	2910.1	1566.7	1291.5	1185.1	1133.2	1116.3	1108.5	1113.7	1125.4
47.5°	9491.1	7205.3	2868.6	1497.9	1239.6	1148.7	1092.9	1072.2	1059.2	1056.6	1065.7
50°	10029.7	7492.1	2888.1	1456.4	1198.1	1108.5	1054.0	1030.6	1011.2	999.5	1006.0
52.5°	10421.7	7672.5	2906.2	1438.2	1165.6	1064.4	1011.2	989.1	963.1	943.7	943.7
55°	10706.0	7714.1	2866.0	1423.9	1141.0	1016.3	963.1	942.4	916.4	894.3	891.7
57.5°	10817.6	7597.3	2716.7	1403.1	1124.1	970.9	912.5	896.9	874.9	848.9	847.6
60°	10667.1	7236.4	2428.6	1359.0	1102.0	933.3	861.9	851.5	841.1	816.4	815.2
62.5°	10062.2	6444.6	2056.0	1269.5	1057.9	893.0	815.2	820.3	821.6	804.8	802.2
65°	8965.4	5356.9	1692.6	1152.6	991.7	845.0	767.1	791.8	806.1	803.5	799.6
67.5°	7371.4	4169.2	1434.3	1029.3	904.7	778.8	715.2	743.8	755.4	764.5	761.9
70°	5471.1	2940.0	1186.4	899.5	799.6	700.9	647.7	662.0	654.2	664.6	668.5
72.5°	3050.3	1764.0	967.0	769.7	690.5	610.1	572.4	569.8	553.0	553.0	553.0
74°	1830.2	1294.1	850.2	689.2	624.3	550.4	517.9	506.2	490.6	491.9	490.6
75°	1471.9	1112.4	780.1	636.0	577.6	515.3	482.9	467.3	455.6	455.6	454.3
77.5°	929.4	845.0	628.2	506.2	462.1	424.4	402.4	381.6	381.6	380.3	379.0
80°	702.2	672.4	489.4	382.9	354.4	325.8	311.5	302.4	302.4	306.3	305.0
82.5°	481.6	506.2	344.0	267.4	253.1	232.3	229.7	231.0	227.2	222.0	220.7
85°	351.8	380.3	232.3	168.7	154.5	141.5	151.9	157.1	150.6	138.9	133.7
87.5°	135.0	249.2	124.6	70.1	64.9	55.8	64.9	67.5	72.7	57.1	58.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)