

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: P320162

Luminaire Tested: **GAN-SA8B-830-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320162
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-SA8B-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA 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: 34583 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 334
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

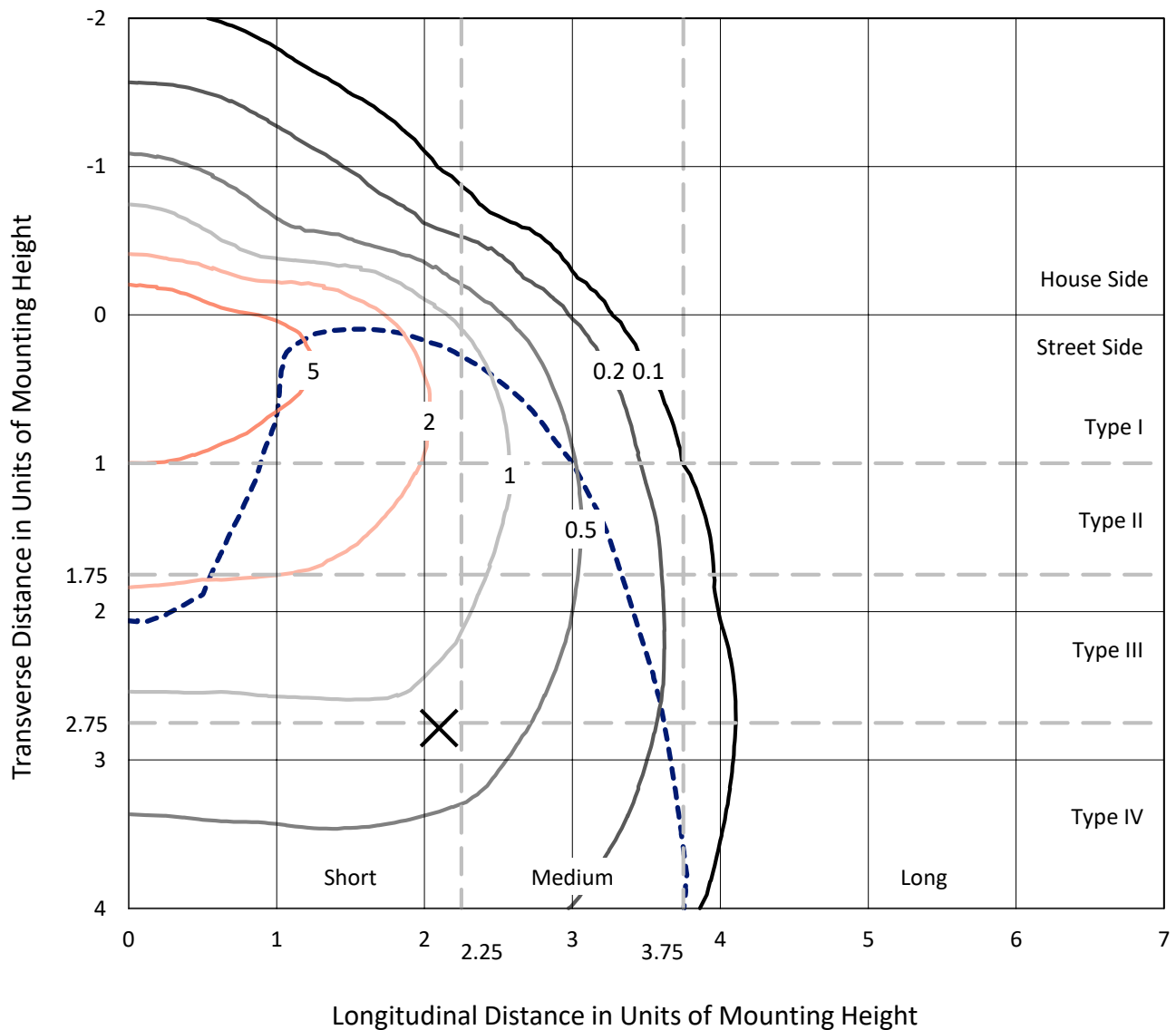


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Iso-Footcandle Lines of Horizontal Illumination

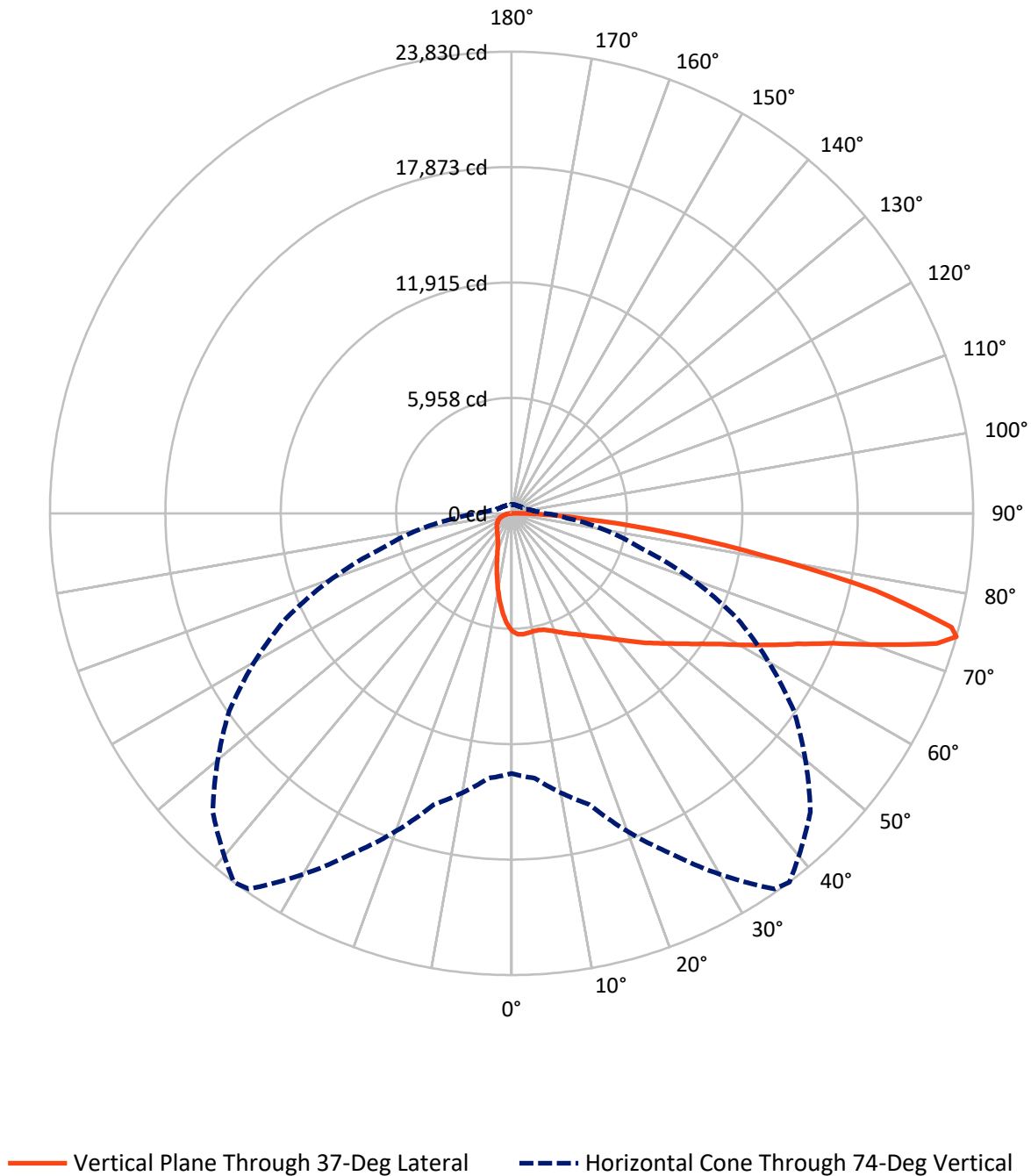
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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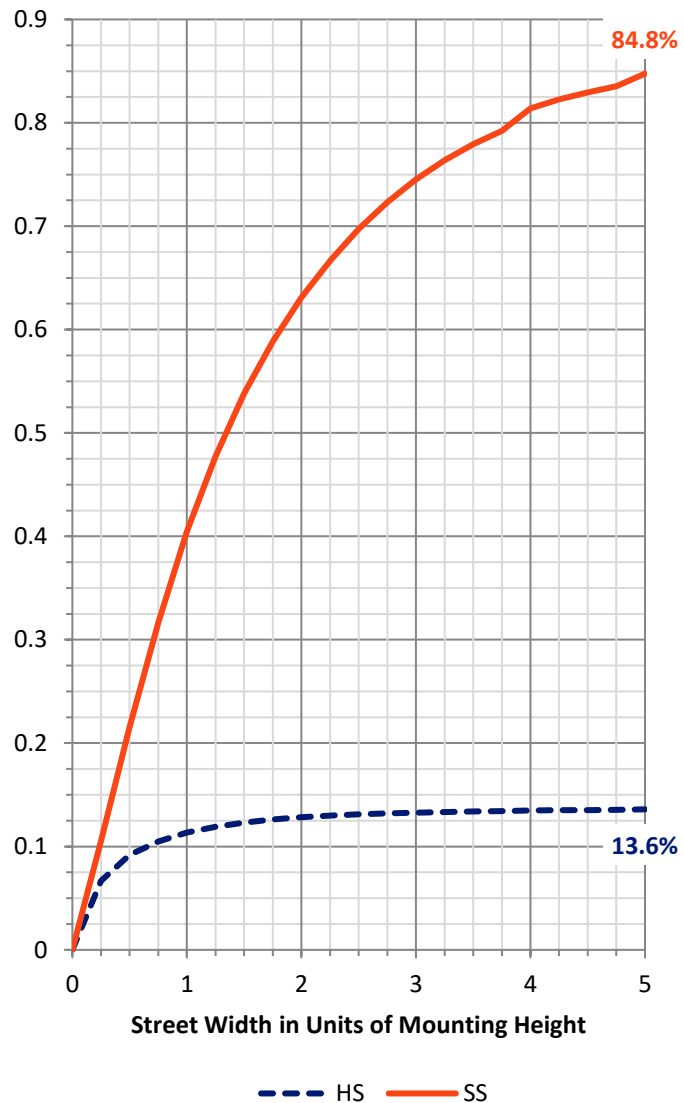
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4758.4	0.0	4758.4
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	29824.6	0.0	29824.6
	% Fixture	86.2	0.0	86.2
Total	Lumens	34583.0	0.0	34583.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.6	1.6
10°-20°	1375.4	4.0
20°-30°	2119.3	6.1
30°-40°	3081.7	8.9
40°-50°	4535.8	13.1
50°-60°	6369.7	18.4
60°-70°	8062.0	23.3
70°-80°	7098.9	20.5
80°-90°	1403.6	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°	34583.0	100.0
0°-180°	34583.0	100.0

Coefficient of Utilization



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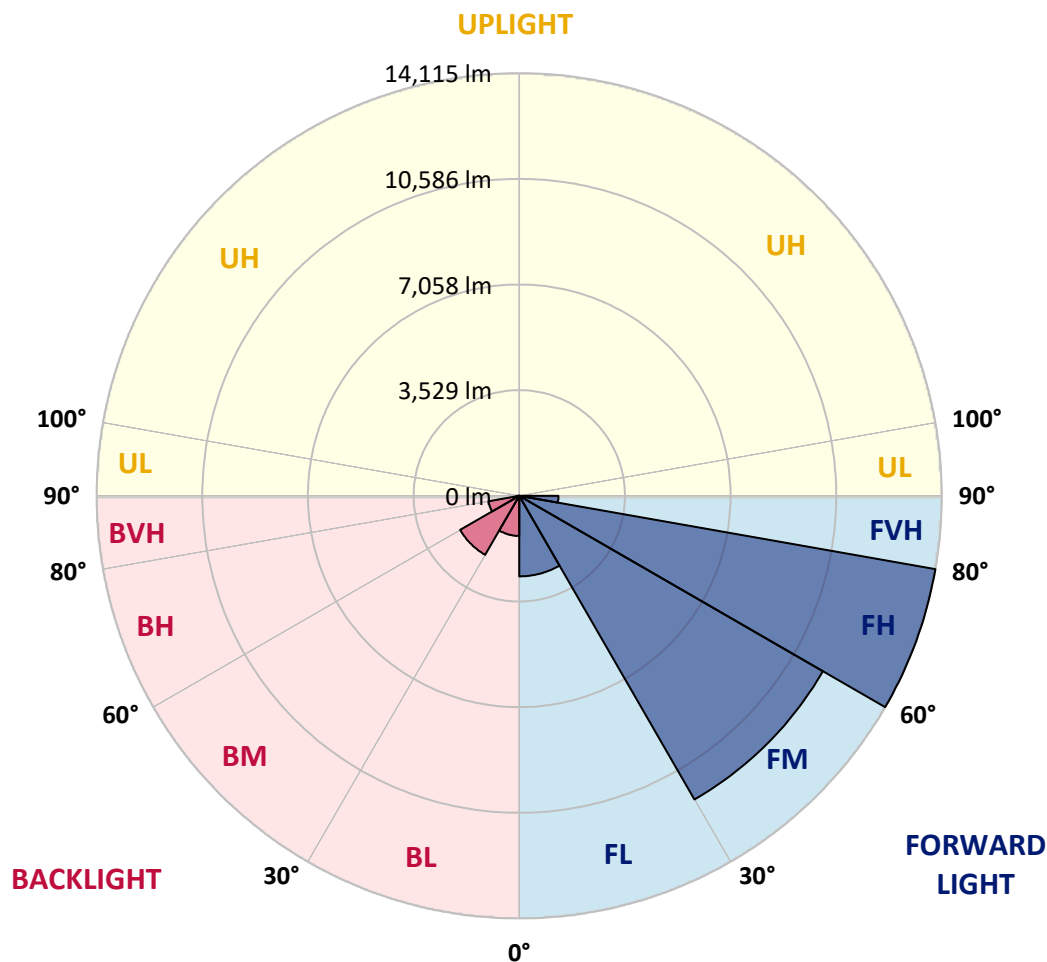
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2691.0	7.8			
FM	(30°-60°)	11710.1	33.9			
FH	(60°-80°)	14115.0	40.8			G5
FVH	(80°-90°)	1308.6	3.8			G5
BL	(0°-30°)	1340.3	3.9	B3/2500		
BM	(30°-60°)	2277.1	6.6	B2/2500		
BH	(60°-80°)	1045.9	3.0	B3/2500		G3/2500
BVH	(80°-90°)	95.0	0.3			G1/100
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°	6093.4	6093.4	6093.4	6093.4	6093.4	6093.4	6093.4	6093.4	6093.4	6093.4	6093.4
2.5°	6301.7	6302.9	6301.7	6292.0	6268.8	6249.3	6233.5	6210.3	6159.2	6120.2	6061.7
5°	6361.4	6354.1	6349.2	6330.9	6294.4	6272.5	6242.0	6198.2	6114.1	6036.1	5941.1
7.5°	6333.4	6324.8	6313.9	6292.0	6250.5	6232.3	6189.6	6132.4	6031.3	5928.9	5792.5
10°	6246.9	6244.4	6239.6	6234.7	6199.4	6184.8	6145.8	6084.9	5985.0	5860.7	5701.1
12.5°	6150.6	6156.7	6176.2	6201.8	6186.0	6178.7	6154.3	6112.9	6010.6	5876.6	5684.1
15°	6089.7	6106.8	6159.2	6226.2	6239.6	6237.1	6231.0	6204.2	6095.8	5947.2	5723.1
17.5°	6069.0	6097.0	6196.9	6307.8	6346.8	6355.3	6357.7	6311.4	6190.8	6033.7	5763.3
20°	6106.8	6142.1	6288.3	6440.6	6502.7	6507.6	6496.6	6416.2	6281.0	6108.0	5785.2
22.5°	6221.3	6253.0	6435.7	6607.5	6678.1	6685.4	6652.5	6530.7	6376.0	6195.7	5815.6
25°	6441.8	6480.8	6663.5	6835.3	6871.8	6873.0	6825.5	6674.5	6500.3	6318.8	5881.4
27.5°	6729.3	6768.3	6932.7	7100.8	7081.3	7070.4	7005.8	6854.8	6662.3	6488.1	5998.4
30°	7049.7	7092.3	7248.2	7367.6	7321.3	7299.4	7247.0	7052.1	6887.7	6719.5	6177.4
32.5°	7381.0	7420.0	7556.4	7638.1	7579.6	7569.8	7490.7	7312.8	7181.2	7072.8	6467.4
35°	7720.9	7748.9	7882.9	7929.2	7851.2	7848.8	7826.9	7663.6	7580.8	7632.0	6888.9
37.5°	8068.1	8075.4	8189.9	8192.3	8169.2	8178.9	8202.1	8099.8	8122.9	8282.5	7437.1
40°	8377.5	8397.0	8479.8	8505.4	8545.6	8579.7	8695.4	8628.4	8807.5	9090.1	8119.2
42.5°	8606.5	8644.3	8777.1	8842.8	8973.2	9026.8	9190.0	9252.2	9612.7	10036.7	8930.6
45°	8800.2	8858.7	9071.9	9207.1	9427.6	9521.4	9755.3	9963.6	10522.7	11063.6	9784.5
47.5°	9009.7	9084.0	9350.8	9609.1	9908.8	10014.7	10439.9	10751.8	11493.6	12096.6	10589.7
50°	9317.9	9375.2	9635.9	10041.5	10415.5	10552.0	11140.4	11587.4	12480.4	13080.9	11287.8
52.5°	9748.0	9726.0	9946.5	10515.4	11017.3	11185.4	11888.3	12476.7	13480.5	13971.4	11877.4
55°	10180.4	10143.9	10298.6	11011.2	11719.0	11895.6	12711.8	13369.6	14431.9	14773.0	12329.3
57.5°	10661.6	10592.2	10722.5	11570.4	12518.1	12728.9	13634.0	14318.6	15367.5	15421.1	12616.8
60°	11157.4	11063.6	11209.8	12263.5	13532.9	13781.4	14713.3	15244.4	16249.4	15940.0	12709.4
62.5°	11591.1	11525.3	11750.7	13037.1	14676.8	14949.6	15773.1	16228.7	17119.2	16155.6	12375.6
65°	11969.9	11980.9	12370.7	13906.9	15952.2	16243.4	16988.9	17442.1	17803.9	16027.7	11594.7
67.5°	12421.9	12484.0	13149.2	15052.0	17557.8	17877.0	18757.7	18765.0	18186.4	15277.3	10057.4
70°	13080.9	13208.8	14219.9	16640.5	19840.7	20279.2	20959.0	19542.2	17649.1	13243.0	7913.4
72.5°	13665.7	13904.4	15359.0	18458.0	22623.0	22955.6	22246.6	19093.9	15404.0	9924.6	4930.0
74°	13428.1	13724.1	15566.0	19353.4	23670.7	23830.2	21811.7	17785.6	12843.4	6873.0	2865.2
75°	12916.5	13238.1	15263.9	19344.9	23537.9	23449.0	20761.6	16290.9	10577.6	4687.6	1906.5
77.5°	10424.1	10763.9	12861.7	16579.6	19299.8	19215.7	15948.6	10928.4	4632.8	1537.4	968.5
80°	6060.5	6320.0	7984.0	10528.8	13013.9	13166.2	10488.6	5407.5	1822.4	863.7	656.6
82.5°	2692.2	2871.3	3856.8	5374.7	7853.7	8049.8	5492.8	2833.5	1125.6	525.0	394.7
85°	1766.4	1899.2	2341.4	2559.4	3739.8	3873.8	2688.5	2206.1	743.1	288.7	289.9
87.5°	1270.6	1398.5	1739.6	1519.1	1716.4	1625.1	1463.0	2041.7	298.5	164.5	97.5
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°	6093.4	6093.4	6093.4	6093.4	6093.4	6093.4	6093.4	6093.4	6093.4	6093.4	6093.4
2.5°	6036.1	6016.6	5972.8	5890.0	5843.7	5804.7	5740.1	5702.4	5685.3	5684.1	5691.4
5°	5886.3	5841.2	5727.9	5589.1	5478.2	5377.1	5251.6	5176.1	5122.5	5090.8	5099.3
7.5°	5712.1	5641.4	5463.6	5241.9	5064.0	4867.9	4674.2	4558.5	4468.3	4401.3	4413.5
10°	5592.7	5495.3	5235.8	4916.6	4620.6	4335.5	4068.8	3909.2	3782.5	3685.0	3692.3
12.5°	5552.5	5420.9	5061.6	4635.2	4219.8	3830.0	3481.6	3236.7	3106.4	2995.5	3004.1
15°	5558.6	5382.0	4915.4	4381.8	3859.2	3368.3	2945.6	2659.3	2482.7	2405.9	2407.1
17.5°	5563.5	5336.9	4761.9	4110.2	3502.3	2937.1	2477.8	2187.9	2021.0	1950.3	1951.5
20°	5547.6	5263.8	4571.9	3798.3	3129.5	2541.1	2096.5	1850.4	1723.7	1668.9	1668.9
22.5°	5526.9	5177.3	4357.5	3485.2	2761.6	2197.6	1823.6	1636.0	1562.9	1526.4	1525.2
25°	5536.7	5112.7	4138.2	3163.6	2423.0	1923.5	1642.1	1517.9	1469.1	1446.0	1444.8
27.5°	5589.1	5082.3	3936.0	2843.3	2127.0	1717.6	1520.3	1432.6	1400.9	1386.3	1386.3
30°	5684.1	5082.3	3725.2	2570.4	1880.9	1565.4	1426.5	1366.8	1344.9	1335.1	1335.1
32.5°	5849.8	5110.3	3521.8	2299.9	1684.8	1446.0	1348.5	1308.3	1291.3	1286.4	1286.4
35°	6134.8	5205.3	3323.2	2044.1	1526.4	1348.5	1274.2	1251.1	1238.9	1237.7	1241.3
37.5°	6535.6	5399.0	3136.8	1855.3	1414.3	1269.4	1212.1	1193.8	1186.5	1192.6	1197.5
40°	7039.9	5662.2	2967.5	1684.8	1329.0	1206.0	1154.8	1142.7	1139.0	1147.5	1154.8
42.5°	7649.0	6017.9	2828.6	1561.7	1263.3	1152.4	1106.1	1091.5	1087.8	1097.6	1107.3
45°	8308.1	6400.4	2731.2	1470.4	1212.1	1112.2	1063.5	1047.6	1040.3	1045.2	1056.2
47.5°	8907.4	6762.2	2692.2	1405.8	1163.4	1078.1	1025.7	1006.2	994.0	991.6	1000.1
50°	9413.0	7031.4	2710.5	1366.8	1124.4	1040.3	989.2	967.2	949.0	938.0	944.1
52.5°	9780.9	7200.7	2727.5	1349.8	1093.9	998.9	949.0	928.3	903.9	885.6	885.6
55°	10047.6	7239.7	2689.8	1336.4	1070.8	953.8	903.9	884.4	860.0	839.3	836.9
57.5°	10152.4	7130.1	2549.7	1316.9	1055.0	911.2	856.4	841.8	821.1	796.7	795.5
60°	10011.1	6791.4	2279.2	1275.4	1034.2	875.9	808.9	799.1	789.4	766.2	765.0
62.5°	9443.4	6048.3	1929.6	1191.4	992.8	838.1	765.0	769.9	771.1	755.3	752.8
65°	8414.0	5027.5	1588.5	1081.8	930.7	793.0	720.0	743.1	756.5	754.1	750.4
67.5°	6918.1	3912.8	1346.1	966.0	849.1	730.9	671.2	698.0	709.0	717.5	715.1
70°	5134.7	2759.2	1113.4	844.2	750.4	657.8	607.9	621.3	614.0	623.7	627.4
72.5°	2862.7	1655.5	907.6	722.4	648.1	572.5	537.2	534.8	518.9	518.9	518.9
74°	1717.6	1214.5	797.9	646.9	585.9	516.5	486.1	475.1	460.5	461.7	460.5
75°	1381.4	1044.0	732.1	596.9	542.1	483.6	453.2	438.5	427.6	427.6	426.4
77.5°	872.2	793.0	589.6	475.1	433.7	398.3	377.6	358.1	358.1	356.9	355.7
80°	659.0	631.0	459.3	359.4	332.6	305.8	292.4	283.8	283.8	287.5	286.3
82.5°	451.9	475.1	322.8	250.9	237.5	218.1	215.6	216.8	213.2	208.3	207.1
85°	330.1	356.9	218.1	158.4	145.0	132.8	142.5	147.4	141.3	130.3	125.5
87.5°	126.7	233.9	116.9	65.8	60.9	52.4	60.9	63.3	68.2	53.6	54.8
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)