

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: P319620

Luminaire Tested: **GAN-SA6D-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38812 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

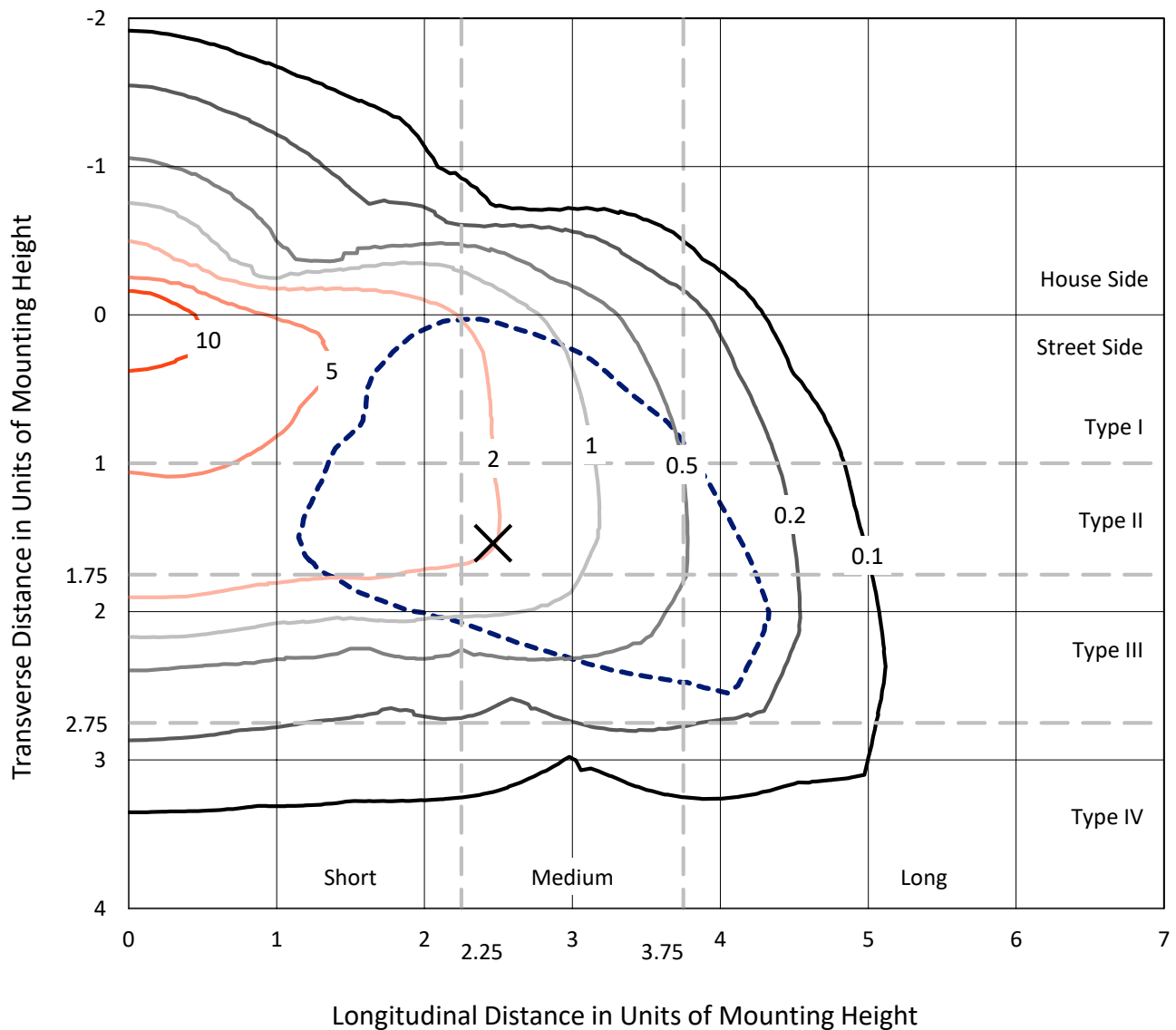
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

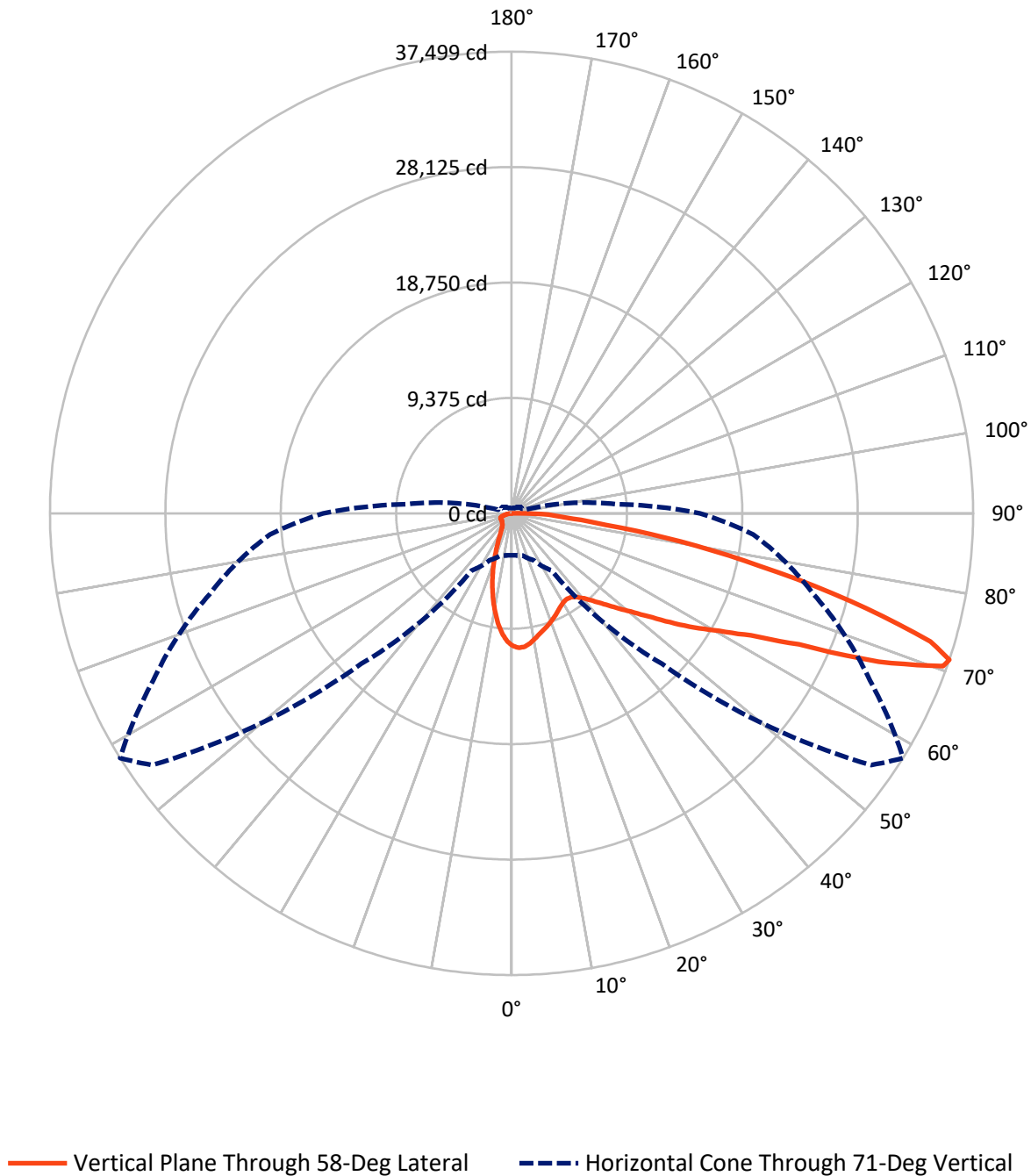
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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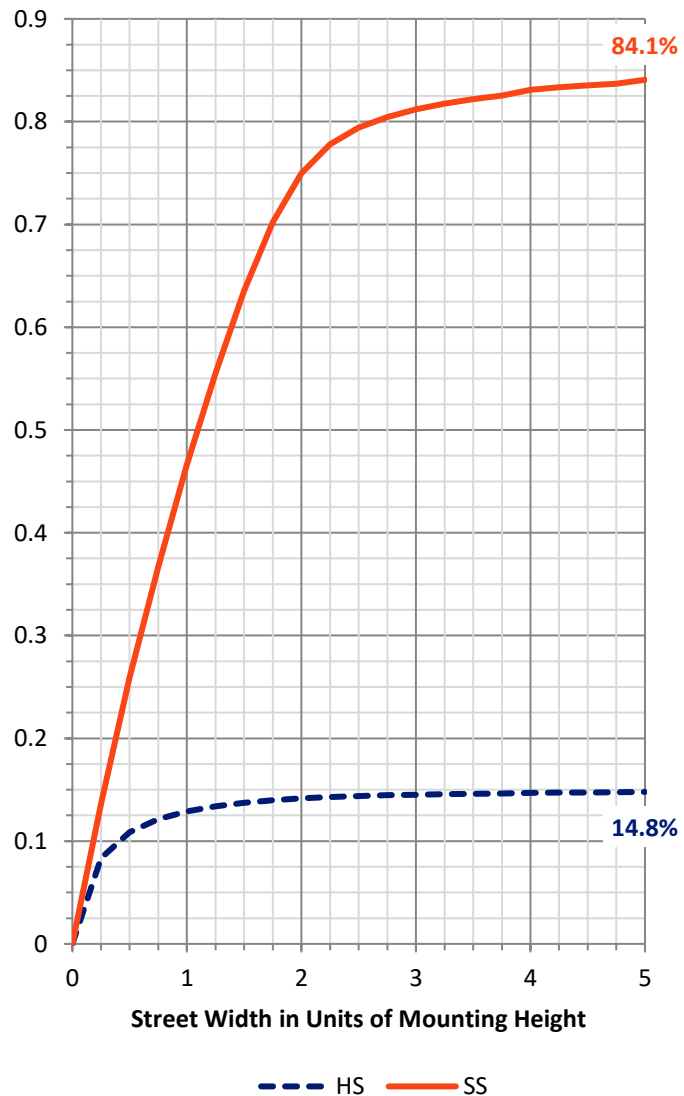
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5802.7	0.0	5802.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	33009.3	0.0	33009.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	38812.0	0.0	38812.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	927.7	2.4
10°-20°	2062.9	5.3
20°-30°	2621.7	6.8
30°-40°	3339.5	8.6
40°-50°	4735.6	12.2
50°-60°	7328.5	18.9
60°-70°	9976.8	25.7
70°-80°	6655.7	17.1
80°-90°	1163.7	3.0
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°	38812.0	100.0
0°-180°	38812.0	100.0

Coefficient of Utilization



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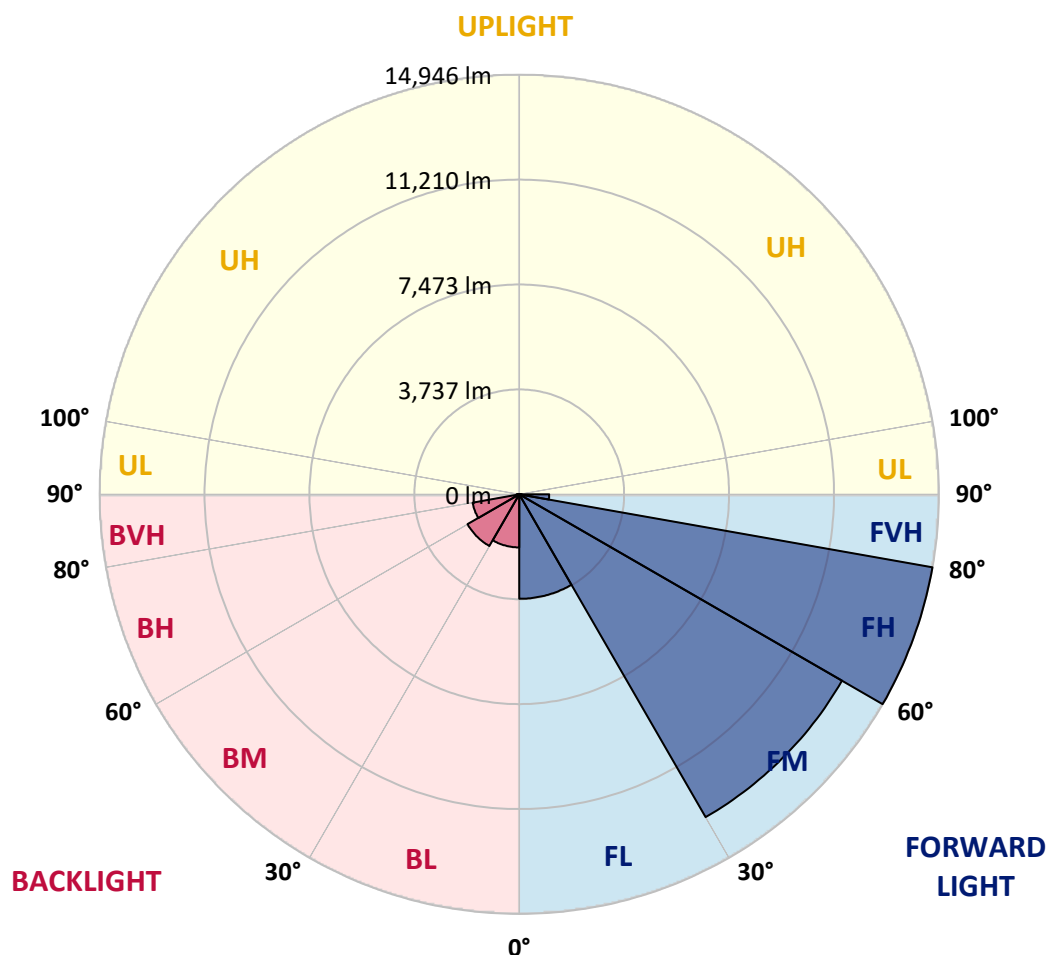
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3720.8	9.6			
FM	(30°-60°)	13275.6	34.2			
FH	(60°-80°)	14946.0	38.5			G5
FVH	(80°-90°)	1067.0	2.7			G5
BL	(0°-30°)	1891.5	4.9	B3/2500		
BM	(30°-60°)	2128.0	5.5	B2/2500		
BH	(60°-80°)	1686.5	4.3	B3/2500		G3/2500
BVH	(80°-90°)	96.7	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10753.5	10753.5	10753.5	10753.5	10753.5	10753.5	10753.5	10753.5	10753.5	10753.5	10753.5
2.5°	11038.8	11023.9	11029.3	11018.5	10992.8	10967.1	10929.3	10936.0	10883.3	10804.9	10707.6
5°	10830.6	10825.2	10865.7	10888.7	10907.6	10892.8	10882.0	10895.5	10818.4	10710.3	10541.3
7.5°	10393.9	10334.4	10385.8	10462.8	10535.9	10591.3	10664.3	10673.8	10625.1	10511.5	10289.8
10°	9773.3	9716.6	9792.3	9912.6	10058.6	10191.1	10338.5	10365.5	10375.0	10272.2	10003.2
12.5°	9129.8	9086.5	9162.3	9331.3	9573.3	9777.4	10012.6	10053.2	10137.0	10068.1	9738.2
15°	8553.9	8537.7	8629.6	8795.9	9074.4	9386.7	9726.0	9800.4	9942.3	9919.4	9531.3
17.5°	8056.4	8052.3	8122.6	8297.0	8605.2	9000.0	9440.8	9566.5	9777.4	9804.4	9361.0
20°	7685.9	7677.8	7726.5	7854.9	8172.6	8620.1	9132.5	9305.6	9609.8	9704.4	9185.2
22.5°	7487.2	7485.8	7487.2	7548.0	7807.6	8224.0	8832.4	9043.3	9446.2	9624.6	8990.6
25°	7453.4	7449.3	7419.6	7412.8	7560.2	7892.8	8534.9	8767.5	9290.7	9569.2	8805.3
27.5°	7541.3	7546.7	7507.5	7443.9	7473.7	7675.1	8276.7	8525.5	9166.3	9558.4	8676.9
30°	7723.8	7721.1	7687.3	7621.0	7562.9	7594.0	8092.9	8341.6	9082.5	9605.7	8589.0
32.5°	7925.2	7940.1	7933.3	7896.8	7810.3	7685.9	8037.4	8280.8	9058.2	9719.3	8551.2
35°	8167.2	8183.4	8232.1	8260.5	8159.1	7959.0	8156.4	8367.3	9128.5	9932.9	8612.0
37.5°	8397.0	8439.0	8575.5	8695.8	8609.3	8386.2	8472.8	8622.8	9346.1	10269.5	8775.6
40°	8662.0	8698.5	8921.6	9177.1	9163.6	8932.4	8982.4	9082.5	9730.1	10752.2	9071.7
42.5°	8923.0	8996.0	9319.1	9681.4	9785.5	9581.4	9661.1	9713.9	10270.9	11391.6	9588.1
45°	9270.4	9348.8	9797.7	10234.4	10477.7	10362.8	10489.9	10510.2	10950.9	12262.3	10338.5
47.5°	9796.3	9885.6	10408.8	10867.1	11238.9	11251.0	11460.6	11452.5	11799.9	13258.7	11283.5
50°	10615.6	10744.1	11172.6	11601.2	12052.8	12304.2	12584.1	12544.9	12818.0	14320.0	12371.8
52.5°	11689.1	11748.6	12066.3	12382.6	12943.7	13507.5	13909.0	13873.9	13972.5	15411.0	13607.5
55°	12801.7	12846.4	12977.5	13150.6	13904.9	14824.3	15673.3	15617.9	15367.8	16544.0	14828.3
57.5°	13802.2	13892.8	13983.4	14055.0	14873.0	16200.6	17478.2	17482.2	16882.0	17766.2	16089.7
60°	13957.7	14037.4	14636.4	15201.5	16529.1	18036.5	19410.1	19369.6	18448.9	19092.4	17495.8
62.5°	12338.0	12517.8	13518.3	15021.7	18124.4	21394.8	21874.8	21824.7	20322.7	20727.0	19133.0
65°	8841.8	9046.0	10253.3	12512.4	17351.1	25095.1	26322.7	25649.5	22877.9	22737.3	21050.1
67.5°	5101.0	5149.6	5672.8	7487.2	13211.4	25288.5	33108.2	32165.9	26845.9	25018.1	21988.3
70°	3772.0	3770.6	3895.0	4607.5	7149.2	20639.1	36335.4	37180.4	31023.5	25768.4	20662.1
71°	3411.0	3415.1	3554.3	4193.8	5662.0	17275.4	35649.9	37499.4	32124.0	25398.0	19702.2
72.5°	2917.5	2931.1	3124.4	3761.2	4763.0	11913.5	32697.2	35585.0	32645.9	24484.1	18200.1
75°	2213.2	2244.3	2511.9	3170.4	4353.3	6041.9	23997.4	28415.6	29001.0	21604.4	13523.7
77.5°	1579.1	1614.2	1917.1	2666.1	4138.4	4553.4	16070.8	20727.0	21342.1	13845.5	6100.1
80°	997.7	1039.7	1268.1	2121.2	3888.2	4323.6	10099.2	13932.0	11637.7	4430.4	1552.1
82.5°	585.4	617.8	786.8	1385.8	3175.8	4164.0	5941.9	7722.4	4529.1	1338.4	705.7
85°	339.3	354.2	490.8	882.8	2306.4	3930.2	4365.5	4316.8	1965.8	654.4	333.9
87.5°	158.2	175.8	290.7	461.0	1280.3	2848.6	3450.2	2981.1	1222.2	306.9	156.8
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°	10753.5	10753.5	10753.5	10753.5	10753.5	10753.5	10753.5	10753.5	10753.5	10753.5	10753.5
2.5°	10660.2	10637.2	10541.3	10456.1	10366.9	10250.6	10122.2	10105.9	10027.5	10042.4	10015.3
5°	10449.3	10391.2	10160.0	9950.5	9703.0	9481.3	9240.7	9129.8	8970.3	8959.5	8918.9
7.5°	10147.8	10039.7	9681.4	9283.9	8886.5	8507.9	8133.4	7887.4	7635.9	7529.1	7519.6
10°	9808.5	9624.6	9097.4	8509.3	7936.0	7383.1	6847.7	6451.6	6094.7	5925.7	5918.9
12.5°	9486.7	9215.0	8491.7	7691.3	6907.2	6190.6	5456.5	4936.0	4488.5	4338.5	4274.9
15°	9213.6	8831.0	7902.2	6878.8	5927.0	4932.0	4096.4	3548.9	3135.2	2991.9	2964.9
17.5°	8948.6	8456.5	7297.9	6058.1	4907.6	3813.9	2977.0	2570.1	2349.7	2291.6	2290.2
20°	8685.0	8071.2	6666.5	5218.6	3922.0	2852.6	2288.9	2106.4	2032.0	2025.2	2014.4
22.5°	8386.2	7662.9	6002.7	4376.3	3060.8	2242.9	1945.5	1872.5	1863.0	1887.3	1887.3
25°	8106.4	7257.3	5329.4	3551.6	2380.8	1871.1	1737.3	1722.4	1748.1	1791.4	1795.4
27.5°	7845.4	6866.6	4672.4	2818.8	1907.6	1648.0	1592.6	1610.2	1656.2	1706.2	1707.5
30°	7630.5	6497.5	4034.3	2221.3	1611.5	1481.8	1472.3	1507.4	1557.5	1596.7	1606.1
32.5°	7464.2	6182.5	3417.8	1785.9	1418.2	1357.4	1365.5	1395.2	1426.3	1448.0	1462.8
35°	7387.1	5912.1	2848.6	1506.1	1295.2	1261.4	1272.2	1288.4	1301.9	1318.2	1330.3
37.5°	7400.6	5702.6	2340.2	1331.7	1212.7	1195.1	1195.1	1195.1	1195.1	1203.2	1204.6
40°	7526.4	5582.3	1926.5	1220.8	1157.3	1138.4	1123.5	1110.0	1099.1	1104.6	1101.9
42.5°	7848.1	5571.4	1623.7	1150.5	1112.7	1081.6	1051.8	1032.9	1019.4	1024.8	1027.5
45°	8394.3	5706.6	1419.6	1100.5	1070.8	1023.4	985.6	965.3	955.8	973.4	976.1
47.5°	9101.4	6001.4	1295.2	1064.0	1031.5	969.4	928.8	909.9	912.6	938.3	945.0
50°	10012.6	6480.0	1235.7	1041.0	1004.5	923.4	881.5	865.3	873.4	909.9	918.0
52.5°	11013.1	7169.5	1242.5	1034.3	986.9	889.6	845.0	826.0	839.6	873.4	880.1
55°	12167.7	7998.2	1354.7	1043.7	961.2	868.0	815.2	782.8	793.6	824.7	830.1
57.5°	13450.7	8947.3	1580.4	1041.0	928.8	847.7	784.1	735.5	743.6	762.5	767.9
60°	14786.4	10093.8	1930.6	1049.1	913.9	823.3	742.2	681.4	678.7	694.9	697.6
62.5°	16389.9	11420.0	2330.8	1054.5	923.4	792.3	686.8	627.3	619.2	623.3	626.0
65°	18042.0	12379.9	2180.7	1032.9	953.1	766.6	638.1	574.6	559.7	557.0	558.4
67.5°	18093.3	11351.1	1529.1	989.6	965.3	753.0	601.6	530.0	505.6	496.2	494.8
70°	16226.3	9221.7	1191.1	943.7	916.6	731.4	567.8	493.5	457.0	442.1	440.7
71°	15315.0	8489.0	1128.9	920.7	880.1	709.8	553.0	477.2	439.4	423.2	420.5
72.5°	13886.0	7610.2	1053.2	884.2	809.8	654.4	524.6	454.3	415.1	396.1	392.1
75°	9965.3	4976.6	904.5	788.2	670.6	521.9	459.7	408.3	374.5	351.5	348.8
77.5°	3839.6	1980.6	684.1	655.7	513.7	408.3	378.5	352.9	328.5	305.5	304.2
80°	1187.0	885.5	498.9	493.5	371.8	304.2	294.7	288.0	278.5	254.2	248.8
82.5°	634.1	508.3	343.4	319.1	243.4	202.8	213.6	216.3	217.7	192.0	189.3
85°	302.8	269.0	193.3	181.2	142.0	113.6	131.1	142.0	143.3	117.6	109.5
87.5°	144.7	140.6	90.6	69.0	52.7	37.9	46.0	56.8	62.2	44.6	39.2
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)