

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: P458464

Luminaire Tested: **GLAN-SA9D-827-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9D-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 51099 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 552
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

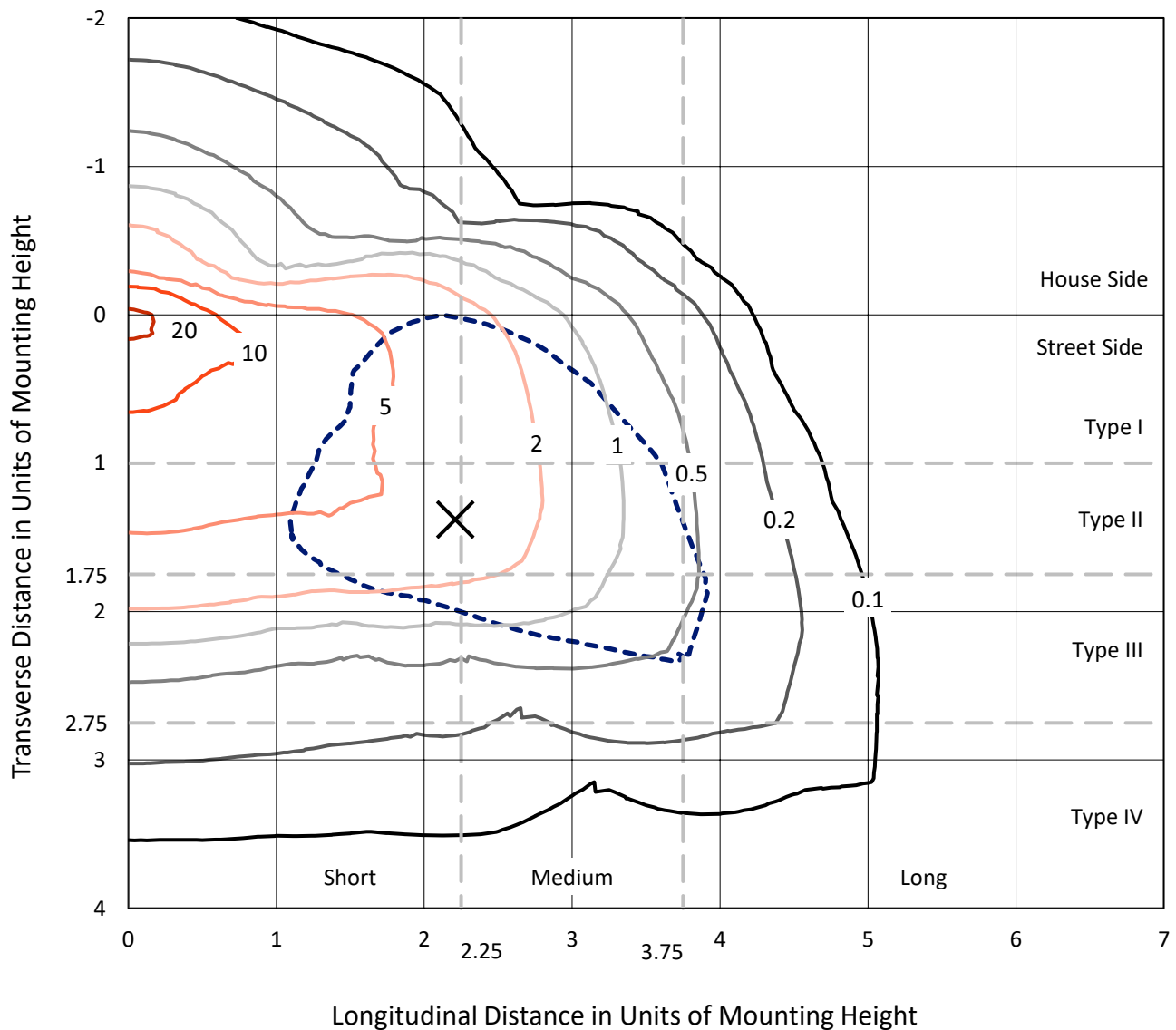


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd



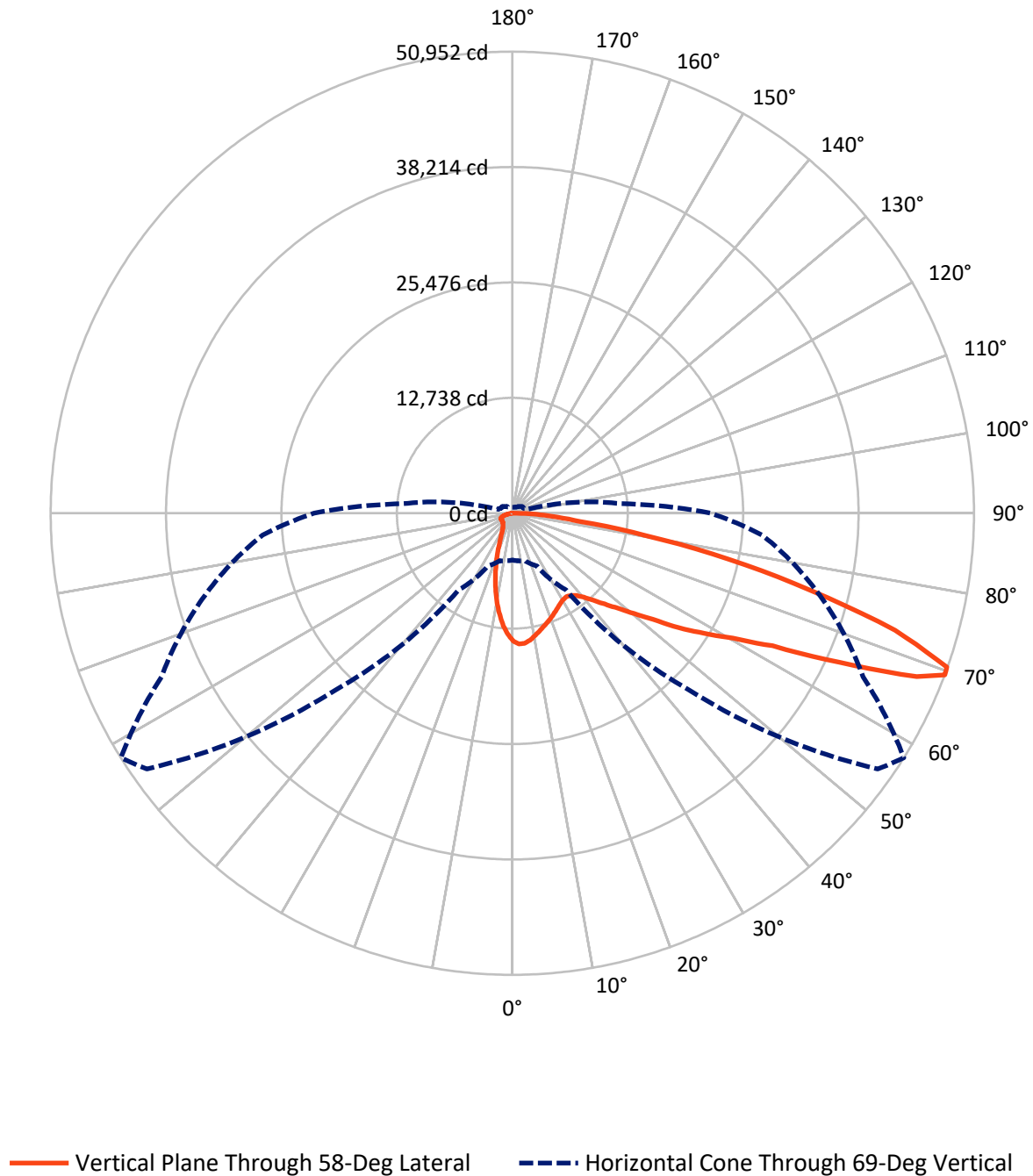
Based on 25 foot mounting height. Maximum calculated value = 22.6 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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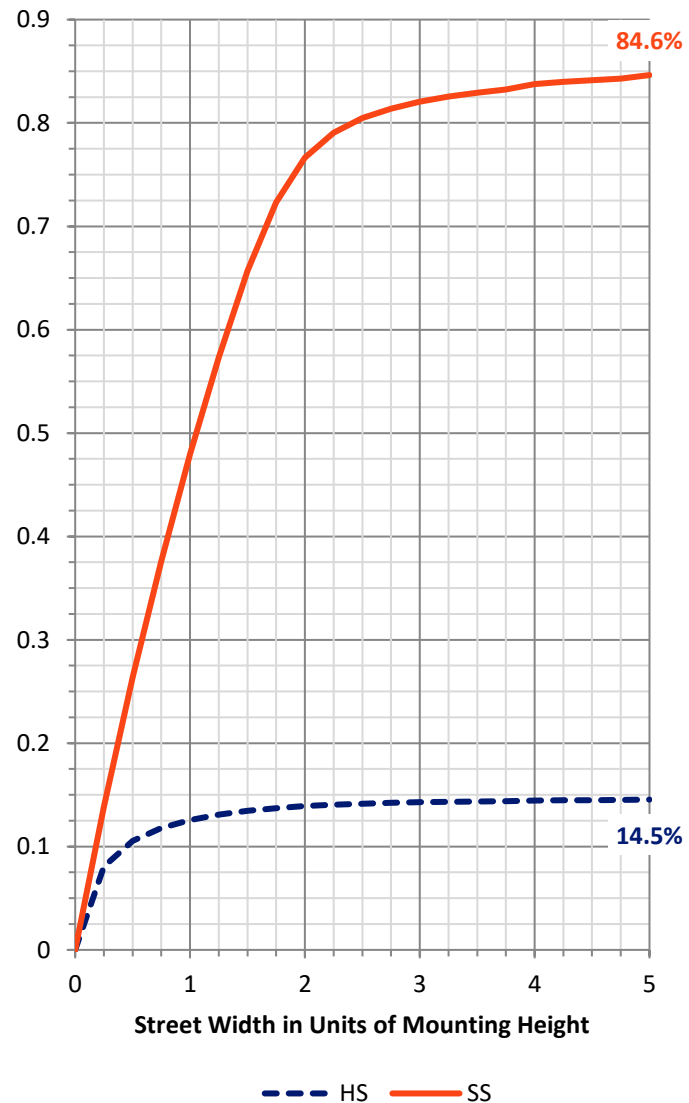
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7488.6	0.0	7488.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	43610.5	0.0	43610.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	51099.0	0.0	51099.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1199.2	2.3
10°-20°	2633.2	5.2
20°-30°	3402.2	6.7
30°-40°	4418.8	8.6
40°-50°	6424.2	12.6
50°-60°	10251.0	20.1
60°-70°	13694.0	26.8
70°-80°	7894.1	15.4
80°-90°	1182.4	2.3
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°	51099.0	100.0
0°-180°	51099.0	100.0

Coefficient of Utilization



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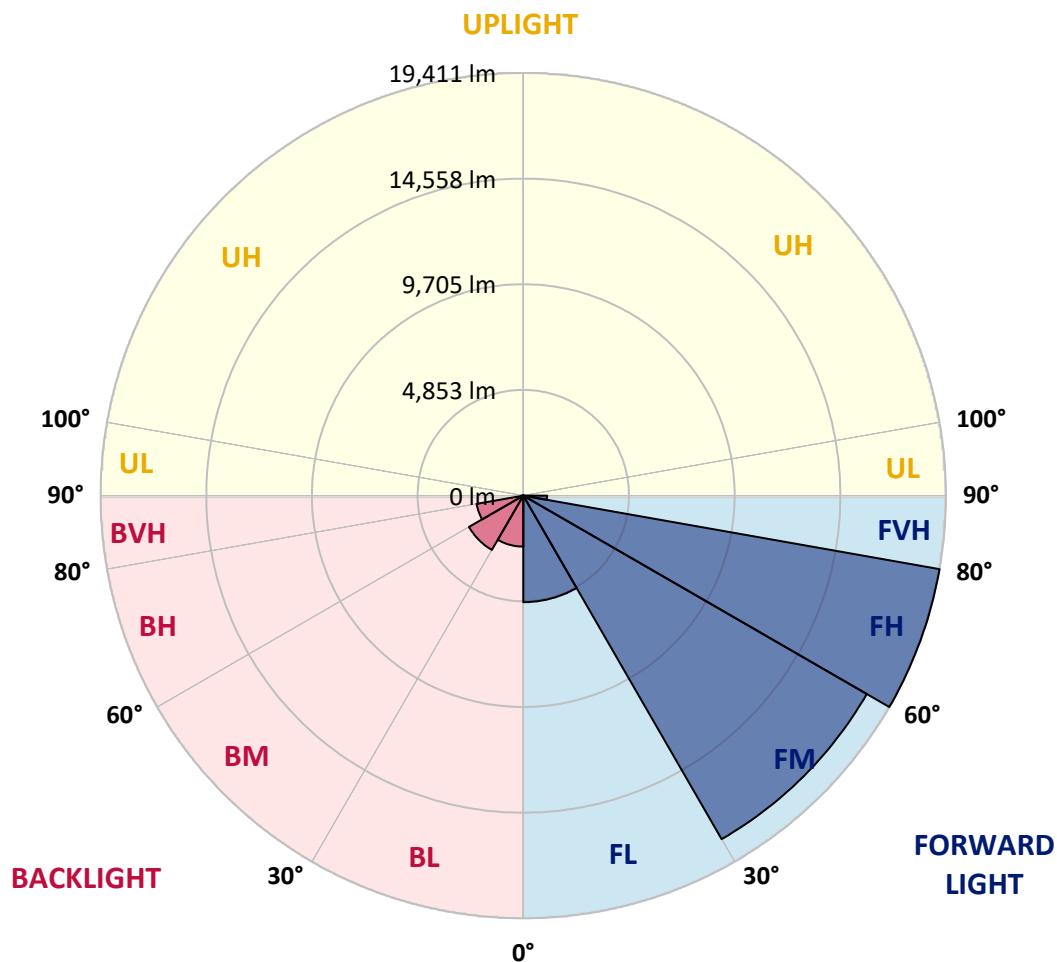
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4894.0	9.6			
FM	(30°-60°)	18214.1	35.6			
FH	(60°-80°)	19410.6	38.0			G5
FVH	(80°-90°)	1091.8	2.1			G5
BL	(0°-30°)	2340.6	4.6	B3/2500		
BM	(30°-60°)	2879.8	5.6	B3/5000		
BH	(60°-80°)	2177.5	4.3	B3/2500		G3/2500
BVH	(80°-90°)	90.6	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	14120.8	14120.8	14120.8	14120.8	14120.8	14120.8	14120.8	14120.8	14120.8	14120.8	14120.8
2.5°	14645.1	14685.0	14673.6	14659.4	14636.6	14573.9	14471.3	14454.2	14388.7	14249.0	14075.2
5°	14420.0	14454.2	14457.0	14477.0	14505.5	14494.1	14420.0	14411.5	14314.6	14126.5	13835.8
7.5°	13647.7	13693.3	13793.0	13904.2	14003.9	14098.0	14120.8	14135.0	14075.2	13858.6	13471.0
10°	12778.5	12824.1	12869.7	13035.0	13280.1	13513.8	13707.6	13733.2	13747.4	13548.0	13074.9
12.5°	11815.3	11909.3	12006.2	12251.3	12579.0	12946.7	13288.6	13342.8	13439.7	13288.6	12732.9
15°	10997.4	11094.3	11233.9	11453.4	11849.5	12379.5	12861.2	12949.5	13140.4	13063.5	12413.7
17.5°	10430.3	10464.5	10561.4	10812.2	11239.6	11798.2	12442.2	12618.9	12923.9	12903.9	12140.2
20°	9982.9	10025.6	10085.5	10239.3	10683.9	11273.8	12051.8	12279.8	12693.0	12761.4	11869.4
22.5°	9794.8	9826.1	9817.6	9900.2	10202.3	10795.1	11655.7	11926.4	12487.8	12664.5	11618.6
25°	9806.2	9834.7	9791.9	9772.0	9951.5	10373.3	11242.5	11587.3	12322.5	12599.0	11390.7
27.5°	9997.1	10017.1	9937.3	9857.5	9871.7	10111.1	10900.5	11282.4	12182.9	12627.5	11199.7
30°	10253.6	10290.6	10239.3	10142.4	10037.0	10048.4	10681.1	11057.2	12117.4	12727.2	11108.5
32.5°	10584.2	10618.4	10595.6	10518.6	10381.8	10230.8	10626.9	10974.6	12123.1	12929.6	11088.6
35°	10931.8	11000.2	11037.3	11031.6	10920.4	10658.3	10840.6	11128.5	12259.9	13268.7	11205.4
37.5°	11325.1	11382.1	11541.7	11644.3	11541.7	11236.8	11322.3	11521.8	12561.9	13758.8	11461.9
40°	11707.0	11792.5	12026.2	12345.3	12305.4	12037.6	12057.5	12188.6	13094.8	14488.4	11963.5
42.5°	12106.0	12208.6	12616.1	13089.1	13183.2	12975.2	13029.3	13146.1	13852.9	15500.1	12824.1
45°	12618.9	12741.5	13243.0	13832.9	14203.4	14075.2	14229.1	14286.1	14867.4	16816.7	13958.3
47.5°	13280.1	13422.6	14041.0	14776.2	15300.6	15417.4	15685.3	15651.1	16124.2	18375.5	15428.8
50°	14394.4	14474.1	15058.4	15807.9	16528.9	17056.1	17346.7	17400.9	17683.0	19891.6	17073.2
52.5°	15719.5	15790.8	16212.5	16868.0	17771.4	18888.5	19606.6	19430.0	19498.3	21738.3	18996.8
55°	17210.0	17329.6	17597.5	18033.6	19204.8	20849.2	22291.2	22333.9	21575.9	23505.2	20840.6
57.5°	18364.1	18566.5	19025.3	19646.5	21131.3	23029.3	24967.1	24995.6	24026.7	25391.7	22875.4
60°	17782.8	18022.2	19070.9	20584.1	23659.1	26833.7	28164.6	28002.2	26412.0	27540.5	25357.5
62.5°	15274.9	15317.7	16842.3	19207.7	24437.1	31923.5	32923.8	32237.0	29595.2	30264.9	27879.6
65°	9886.0	10165.2	11373.6	14687.9	21880.8	34747.6	41262.3	39675.0	34058.0	33356.9	29991.3
67.5°	6241.1	6169.8	6671.4	8387.0	15049.8	32259.8	48378.2	48127.5	39894.4	35309.1	29486.9
69°	5175.2	5255.0	5426.0	6429.2	10356.2	27543.3	49218.9	50951.6	42724.2	35155.2	27654.5
70°	4693.6	4730.7	4910.2	5699.6	7990.8	23069.2	47839.6	50874.7	43835.7	34511.1	26326.5
72.5°	3724.7	3721.8	4029.6	4742.1	5973.2	13168.9	39281.7	44169.1	42593.2	31513.1	21752.5
75°	2829.9	2875.5	3214.6	4012.5	5503.0	7195.8	27412.3	34015.2	34018.1	24890.2	13573.6
77.5°	2040.5	2069.0	2465.1	3368.5	5183.8	5833.5	18258.7	24397.2	22935.2	11404.9	4266.2
80°	1336.6	1353.7	1655.7	2667.4	4673.7	5503.0	10826.4	14933.0	10817.9	3026.5	1410.7
82.5°	732.4	817.9	1011.7	1727.0	3750.3	5084.0	6580.2	7557.7	4058.1	1348.0	735.2
85°	367.6	390.4	570.0	1008.8	2450.8	4206.3	4582.5	4334.5	2094.6	669.7	381.9
87.5°	108.3	136.8	236.5	390.4	994.6	2191.5	2550.6	2288.4	806.5	242.2	79.8
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°	14120.8	14120.8	14120.8	14120.8	14120.8	14120.8	14120.8	14120.8	14120.8	14120.8	14120.8
2.5°	14003.9	13952.6	13724.6	13519.5	13331.4	13131.9	12963.8	12815.6	12829.8	12832.7	12681.6
5°	13684.8	13567.9	13134.7	12730.1	12388.1	11954.9	11584.4	11345.1	11225.4	11065.8	11122.8
7.5°	13251.6	13026.4	12425.1	11752.6	11122.8	10561.4	9951.5	9532.6	9264.7	9005.4	9039.6
10°	12804.2	12442.2	11567.3	10678.2	9863.2	8965.5	8187.5	7520.6	7024.8	6839.5	6717.0
12.5°	12345.3	11869.4	10758.0	9575.3	8449.7	7375.3	6272.4	5557.1	5010.0	4719.3	4756.3
15°	11926.4	11347.9	9914.5	8472.5	7010.5	5731.0	4630.9	3949.8	3568.0	3488.2	3533.8
17.5°	11538.9	10780.8	9125.1	7400.9	5693.9	4297.5	3479.6	3094.9	2941.0	2898.2	2895.4
20°	11139.9	10299.2	8238.8	6255.3	4437.1	3331.4	2855.5	2676.0	2647.5	2664.6	2667.4
22.5°	10735.2	9703.6	7326.8	5118.2	3533.8	2724.4	2496.4	2448.0	2470.8	2510.7	2516.4
25°	10361.9	9179.2	6449.1	4120.8	2821.3	2393.8	2282.7	2282.7	2334.0	2393.8	2396.7
27.5°	10054.1	8671.9	5574.2	3271.6	2362.5	2154.5	2117.4	2137.4	2208.6	2254.2	2257.0
30°	9800.5	8198.9	4747.8	2621.8	2077.5	1963.5	1955.0	1989.2	2040.5	2083.2	2086.1
32.5°	9609.5	7782.8	3975.5	2202.9	1880.9	1818.2	1815.3	1841.0	1869.5	1880.9	1892.3
35°	9535.4	7438.0	3268.7	1937.9	1749.8	1709.9	1709.9	1707.0	1718.4	1724.1	1729.8
37.5°	9595.3	7173.0	2721.6	1766.9	1652.9	1624.4	1607.3	1590.2	1584.5	1584.5	1587.3
40°	9848.9	7033.3	2314.0	1655.7	1584.5	1541.7	1510.4	1490.4	1470.5	1476.2	1481.9
42.5°	10387.5	7059.0	2037.6	1581.6	1524.6	1464.8	1419.2	1396.4	1382.2	1399.3	1396.4
45°	11245.3	7315.4	1860.9	1530.3	1464.8	1387.9	1345.1	1322.3	1322.3	1348.0	1356.5
47.5°	12445.1	7805.6	1766.9	1490.4	1419.2	1328.0	1285.3	1268.2	1273.9	1316.6	1319.5
50°	13909.9	8657.7	1749.8	1470.5	1396.4	1285.3	1236.8	1219.7	1234.0	1279.6	1285.3
52.5°	15525.7	9754.9	1832.4	1473.3	1376.5	1259.6	1196.9	1171.3	1185.5	1222.6	1234.0
55°	17440.8	11128.5	2046.2	1484.7	1348.0	1245.4	1168.4	1111.4	1128.5	1154.2	1157.0
57.5°	19395.8	12861.2	2422.3	1487.6	1325.2	1219.7	1120.0	1045.9	1045.9	1063.0	1071.5
60°	21783.9	14747.7	2918.2	1490.4	1328.0	1182.7	1054.4	971.8	960.4	968.9	971.8
62.5°	24154.9	16326.5	3000.8	1481.9	1356.5	1145.6	983.2	897.7	877.7	874.9	869.2
65°	25200.8	16033.0	2459.4	1442.0	1387.9	1122.8	926.2	826.4	792.2	780.8	780.8
67.5°	23496.6	13562.2	1849.5	1387.9	1367.9	1100.0	872.0	766.6	726.7	703.9	703.9
69°	21895.0	12063.2	1661.4	1350.8	1316.6	1063.0	837.8	735.2	686.8	661.2	652.6
70°	20658.2	11031.6	1581.6	1319.5	1268.2	1020.2	812.2	712.5	658.3	629.8	624.1
72.5°	16486.1	8654.9	1385.0	1199.8	1080.1	857.8	721.0	641.2	589.9	558.6	550.0
75°	9501.2	4690.8	1148.5	1043.0	869.2	666.9	609.9	558.6	518.7	490.2	481.6
77.5°	2923.9	1812.5	832.1	823.6	638.4	515.8	487.3	467.4	438.9	407.5	401.8
80°	1231.1	923.3	564.3	555.7	424.6	359.1	350.5	347.7	336.3	310.6	302.1
82.5°	675.4	521.5	393.3	342.0	256.5	208.0	216.6	219.4	210.9	185.2	168.1
85°	330.6	285.0	190.9	153.9	116.8	74.1	71.2	85.5	79.8	57.0	62.7
87.5°	65.5	79.8	51.3	22.8	11.4	0.0	0.0	0.0	0.0	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	0.0

(END OF REPORT)