

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: P319942

Luminaire Tested: **GAN-SA8D-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319942
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-SA8D-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 49415 lumens
Efficiency: N/A
Efficacy: 96.7 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): 511
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

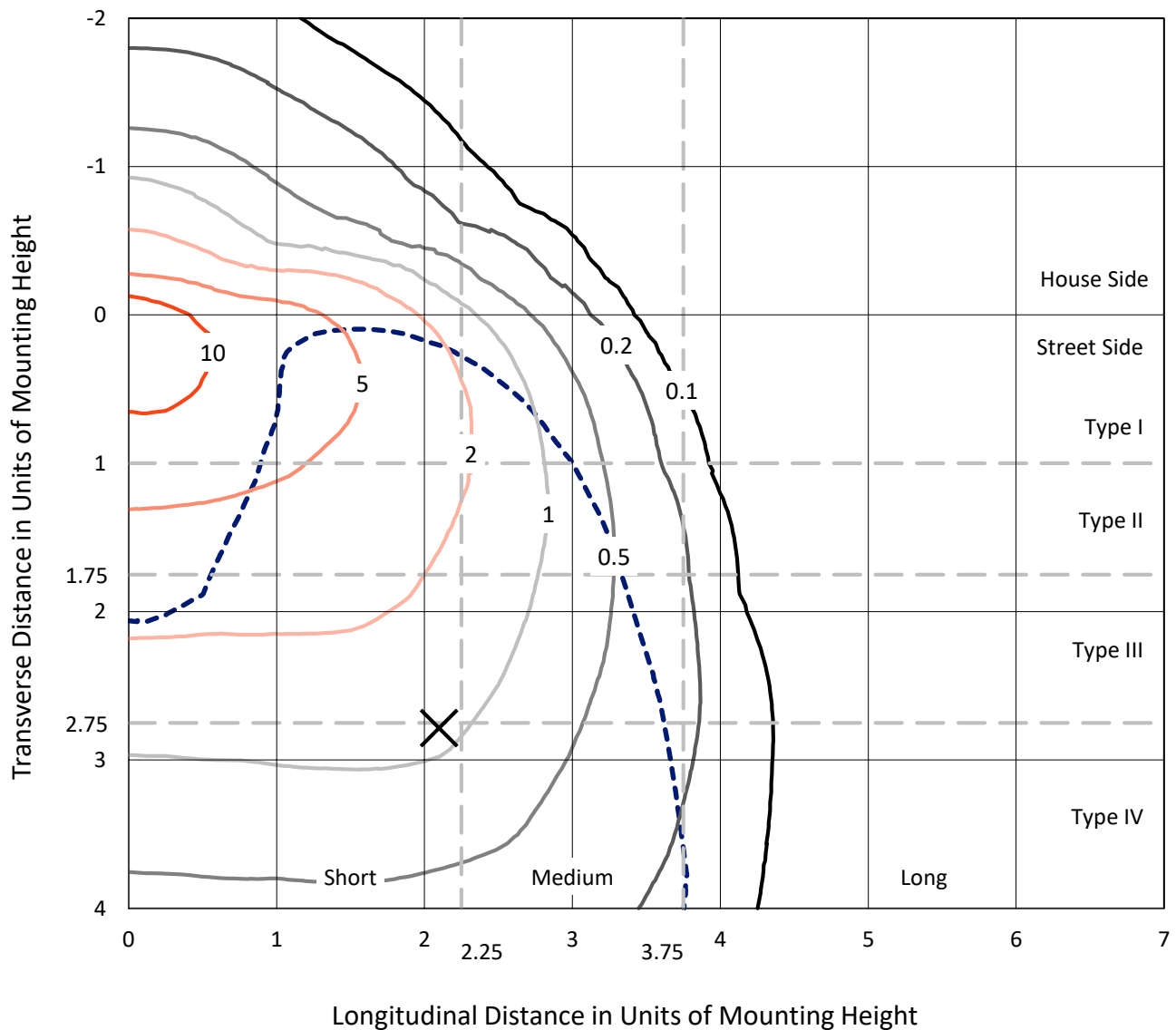


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Iso-Footcandle Lines of Horizontal Illumination

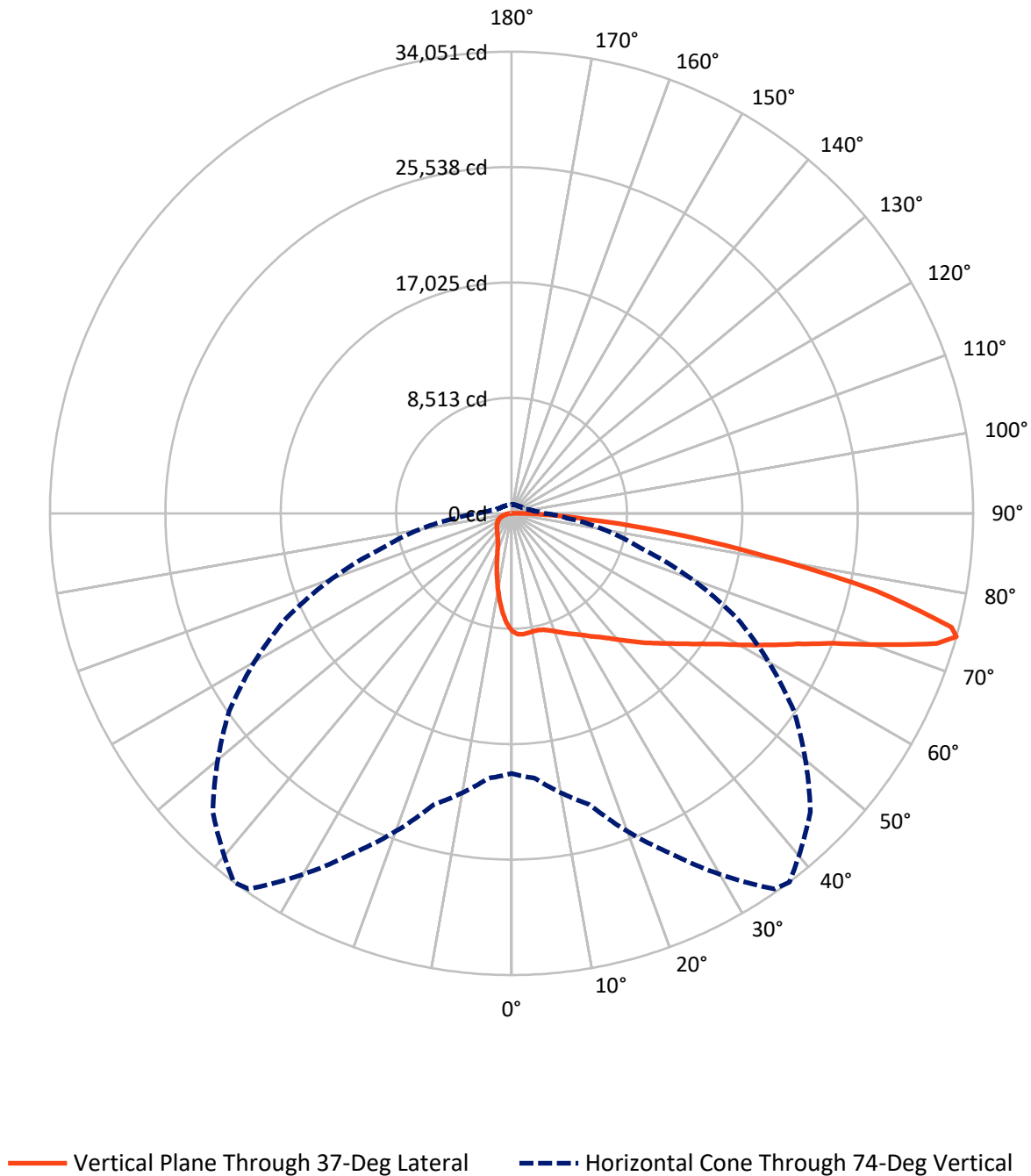
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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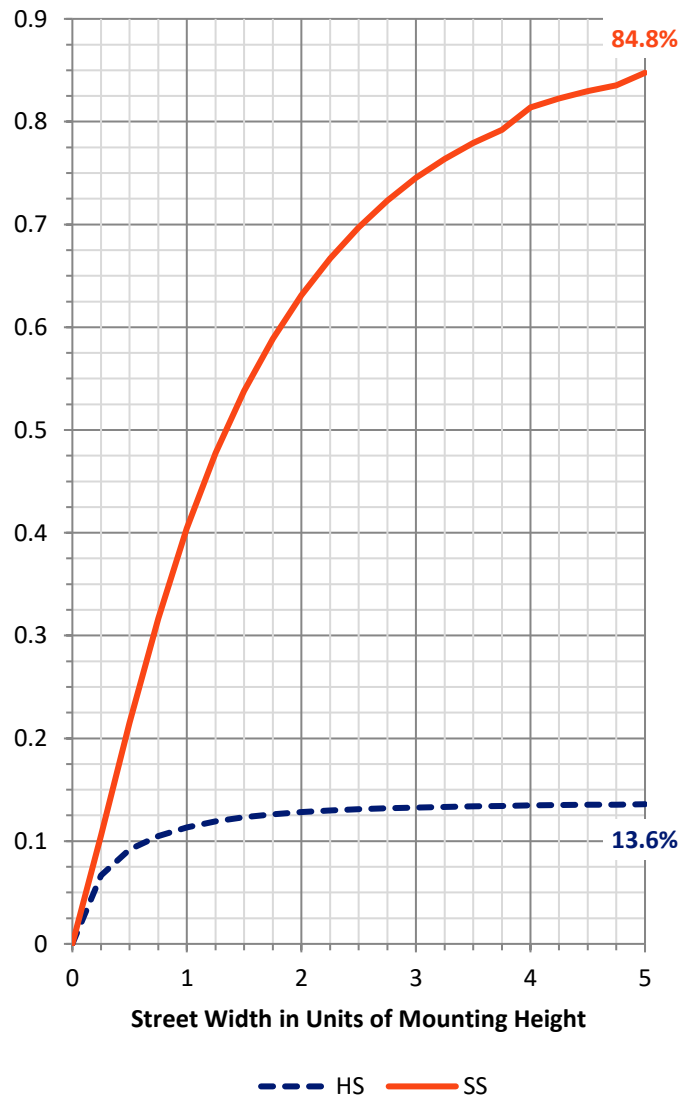
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6799.2	0.0	6799.2
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	42615.8	0.0	42615.8
	% Fixture	86.2	0.0	86.2
Total	Lumens	49415.0	0.0	49415.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	766.7	1.6
10°-20°	1965.3	4.0
20°-30°	3028.2	6.1
30°-40°	4403.4	8.9
40°-50°	6481.1	13.1
50°-60°	9101.5	18.4
60°-70°	11519.7	23.3
70°-80°	10143.5	20.5
80°-90°	2005.6	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°	49415.0	100.0
0°-180°	49415.0	100.0

Coefficient of Utilization



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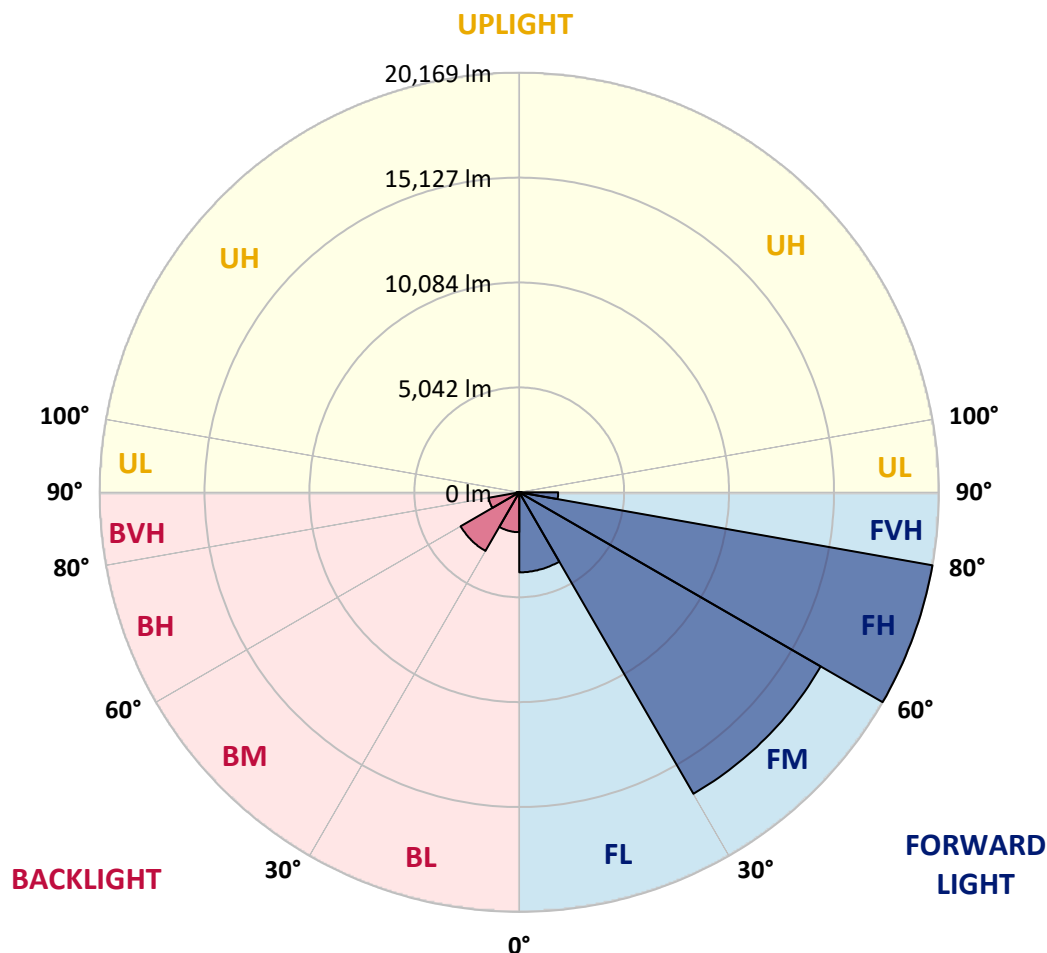
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3845.1	7.8			
FM	(30°-60°)	16732.3	33.9			
FH	(60°-80°)	20168.7	40.8			G5
FVH	(80°-90°)	1869.8	3.8			G5
BL	(0°-30°)	1915.2	3.9	B3/2500		
BM	(30°-60°)	3253.7	6.6	B3/5000		
BH	(60°-80°)	1494.5	3.0	B3/2500		G3/2500
BVH	(80°-90°)	135.8	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°	8706.7	8706.7	8706.7	8706.7	8706.7	8706.7	8706.7	8706.7	8706.7	8706.7	8706.7
2.5°	9004.4	9006.1	9004.4	8990.5	8957.4	8929.5	8906.9	8873.8	8800.7	8745.0	8661.5
5°	9089.7	9079.2	9072.3	9046.2	8993.9	8962.6	8919.1	8856.4	8736.3	8624.9	8489.2
7.5°	9049.6	9037.5	9021.8	8990.5	8931.3	8905.2	8844.2	8762.4	8618.0	8471.7	8276.8
10°	8926.1	8922.6	8915.6	8908.6	8858.2	8837.3	8781.6	8694.5	8551.8	8374.3	8146.2
12.5°	8788.5	8797.2	8825.1	8861.6	8839.0	8828.6	8793.8	8734.6	8588.4	8396.9	8121.9
15°	8701.5	8725.9	8800.7	8896.5	8915.6	8912.1	8903.4	8865.1	8710.2	8497.9	8177.6
17.5°	8671.9	8712.0	8854.7	9013.1	9068.8	9081.0	9084.5	9018.3	8846.0	8621.4	8235.0
20°	8725.9	8776.4	8985.2	9202.8	9291.6	9298.6	9282.9	9168.0	8974.8	8727.6	8266.3
22.5°	8889.5	8934.8	9195.9	9441.3	9542.2	9552.7	9505.7	9331.6	9110.6	8852.9	8309.9
25°	9204.6	9260.3	9521.4	9766.8	9819.0	9820.7	9752.9	9537.0	9288.1	9028.8	8403.9
27.5°	9615.4	9671.1	9906.0	10146.2	10118.4	10102.7	10010.5	9794.6	9519.6	9270.7	8571.0
30°	10073.1	10134.1	10356.9	10527.5	10461.3	10430.0	10355.1	10076.6	9841.6	9601.4	8826.8
32.5°	10546.6	10602.3	10797.3	10913.9	10830.3	10816.4	10703.3	10449.1	10261.1	10106.2	9241.1
35°	11032.2	11072.3	11263.7	11329.9	11218.5	11215.0	11183.7	10950.4	10832.1	10905.2	9843.4
37.5°	11528.3	11538.8	11702.4	11705.9	11672.8	11686.7	11719.8	11573.6	11606.7	11834.7	10626.7
40°	11970.5	11998.3	12116.7	12153.2	12210.7	12259.4	12424.8	12329.0	12584.9	12988.7	11601.4
42.5°	12297.7	12351.7	12541.4	12635.4	12821.6	12898.2	13131.5	13220.2	13735.5	14341.2	12760.7
45°	12574.5	12658.0	12962.6	13155.8	13470.9	13604.9	13939.1	14236.8	15035.7	15808.6	13980.9
47.5°	12873.8	12980.0	13361.2	13730.2	14158.4	14309.9	14917.4	15363.0	16423.0	17284.7	15131.5
50°	13314.2	13396.0	13768.5	14348.2	14882.6	15077.5	15918.2	16557.1	17833.0	18691.1	16128.9
52.5°	13928.7	13897.3	14212.4	15025.3	15742.4	15982.6	16987.0	17827.7	19262.0	19963.5	16971.3
55°	14546.6	14494.4	14715.5	15733.7	16745.1	16997.4	18163.7	19103.6	20621.5	21108.9	17617.1
57.5°	15234.2	15135.0	15321.2	16532.7	17886.9	18188.1	19481.4	20459.6	21958.3	22034.9	18027.9
60°	15942.6	15808.6	16017.5	17523.1	19336.9	19692.0	21023.6	21782.5	23218.5	22776.4	18160.2
62.5°	16562.3	16468.3	16790.3	18628.4	20971.4	21361.3	22537.9	23188.9	24461.4	23084.5	17683.3
65°	17103.6	17119.3	17676.3	19871.3	22793.8	23209.8	24275.1	24922.6	25439.6	22901.7	16567.5
67.5°	17749.4	17838.2	18788.6	21507.5	25088.0	25544.0	26802.5	26813.0	25986.2	21829.5	14370.8
70°	18691.1	18873.9	20318.6	23777.3	28350.0	28976.6	29947.9	27923.5	25218.5	18922.6	11307.3
72.5°	19526.6	19867.8	21946.1	26374.3	32325.6	32800.8	31787.8	27282.9	22010.5	14181.1	7044.4
74°	19187.2	19610.2	22242.0	27653.7	33822.6	34050.6	31166.3	25413.5	18351.7	9820.7	4094.0
75°	18456.1	18915.6	21810.3	27641.5	33632.8	33505.8	29665.9	23277.7	15114.1	6698.0	2724.1
77.5°	14894.7	15380.4	18377.8	23690.2	27577.1	27457.0	22788.6	15615.4	6619.7	2196.7	1383.8
80°	8659.7	9030.5	11408.2	15044.4	18595.4	18812.9	14987.0	7726.7	2604.0	1234.1	938.2
82.5°	3846.8	4102.7	5510.9	7679.7	11222.0	11502.2	7848.6	4048.8	1608.4	750.2	564.0
85°	2523.9	2713.7	3345.5	3657.1	5343.8	5535.3	3841.6	3152.3	1061.8	412.5	414.3
87.5°	1815.5	1998.3	2485.6	2170.6	2452.6	2322.0	2090.5	2917.3	426.5	235.0	139.3
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°	8706.7	8706.7	8706.7	8706.7	8706.7	8706.7	8706.7	8706.7	8706.7	8706.7	8706.7
2.5°	8624.9	8597.1	8534.4	8416.0	8349.9	8294.2	8201.9	8148.0	8123.6	8121.9	8132.3
5°	8410.8	8346.4	8184.5	7986.1	7827.7	7683.2	7503.9	7396.0	7319.4	7274.2	7286.4
7.5°	8161.9	8061.0	7806.8	7490.0	7235.9	6955.6	6678.9	6513.5	6384.7	6289.0	6306.4
10°	7991.3	7852.1	7481.3	7025.3	6602.3	6195.0	5813.8	5585.7	5404.7	5265.5	5275.9
12.5°	7933.9	7745.9	7232.4	6623.2	6029.6	5472.6	4974.8	4624.9	4438.7	4280.3	4292.4
15°	7942.6	7690.2	7023.5	6261.1	5514.4	4812.9	4208.9	3799.8	3547.4	3437.8	3439.5
17.5°	7949.5	7625.8	6804.2	5873.0	5004.4	4196.7	3540.5	3126.2	2887.7	2786.8	2788.5
20°	7926.9	7521.3	6532.7	5427.3	4471.7	3631.0	2995.7	2644.0	2463.0	2384.7	2384.7
22.5°	7897.3	7397.8	6226.3	4980.0	3946.1	3140.1	2605.8	2337.7	2233.3	2181.0	2179.3
25°	7911.3	7305.5	5913.0	4520.5	3462.2	2748.5	2346.4	2168.8	2099.2	2066.2	2064.4
27.5°	7986.1	7262.0	5624.0	4062.7	3039.2	2454.3	2172.3	2047.0	2001.7	1980.9	1980.9
30°	8121.9	7262.0	5322.9	3672.8	2687.6	2236.7	2038.3	1953.0	1921.7	1907.8	1907.8
32.5°	8358.6	7302.0	5032.2	3286.3	2407.3	2066.2	1926.9	1869.5	1845.1	1838.1	1838.1
35°	8765.9	7437.8	4748.5	2920.8	2181.0	1926.9	1820.7	1787.6	1770.2	1768.5	1773.7
37.5°	9338.6	7714.6	4482.2	2651.0	2020.9	1813.8	1731.9	1705.8	1695.4	1704.1	1711.1
40°	10059.2	8090.5	4240.2	2407.3	1899.0	1723.2	1650.1	1632.7	1627.5	1639.7	1650.1
42.5°	10929.5	8598.8	4041.8	2231.5	1805.1	1646.7	1580.5	1559.6	1554.4	1568.3	1582.3
45°	11871.2	9145.4	3902.5	2101.0	1731.9	1589.2	1519.6	1497.0	1486.5	1493.5	1509.1
47.5°	12727.6	9662.3	3846.8	2008.7	1662.3	1540.5	1465.6	1437.8	1420.4	1416.9	1429.1
50°	13450.0	10047.0	3872.9	1953.0	1606.6	1486.5	1413.4	1382.1	1356.0	1340.3	1349.0
52.5°	13975.7	10289.0	3897.3	1928.6	1563.1	1427.3	1356.0	1326.4	1291.6	1265.5	1265.5
55°	14356.9	10344.7	3843.4	1909.5	1530.0	1362.9	1291.6	1263.7	1228.9	1199.3	1195.8
57.5°	14506.6	10188.0	3643.2	1881.6	1507.4	1302.0	1223.7	1202.8	1173.2	1138.4	1136.6
60°	14304.7	9704.1	3256.8	1822.5	1477.8	1251.5	1155.8	1141.9	1127.9	1094.9	1093.1
62.5°	13493.5	8642.3	2757.2	1702.4	1418.6	1197.6	1093.1	1100.1	1101.8	1079.2	1075.7
65°	12022.7	7183.7	2269.8	1545.7	1329.9	1133.2	1028.7	1061.8	1080.9	1077.5	1072.2
67.5°	9885.2	5591.0	1923.4	1380.3	1213.2	1044.4	959.1	997.4	1013.1	1025.2	1021.8
70°	7336.8	3942.6	1591.0	1206.3	1072.2	940.0	868.6	887.7	877.3	891.2	896.4
72.5°	4090.5	2365.5	1296.8	1032.2	926.0	818.1	767.6	764.1	741.5	741.5	741.5
74°	2454.3	1735.4	1140.1	924.3	837.3	738.0	694.5	678.9	658.0	659.7	658.0
75°	1973.9	1491.7	1046.1	852.9	774.6	691.0	647.5	626.6	611.0	611.0	609.2
77.5°	1246.3	1133.2	842.5	678.9	619.7	569.2	539.6	511.8	511.8	510.0	508.3
80°	941.7	901.7	656.2	513.5	475.2	436.9	417.8	405.6	405.6	410.8	409.1
82.5°	645.8	678.9	461.3	358.6	339.4	311.6	308.1	309.8	304.6	297.7	295.9
85°	471.7	510.0	311.6	226.3	207.1	189.7	203.7	210.6	201.9	186.2	179.3
87.5°	181.0	334.2	167.1	94.0	87.0	74.8	87.0	90.5	97.5	76.6	78.3
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)