

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: P319303

Luminaire Tested: **GAN-SA9D-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56827 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

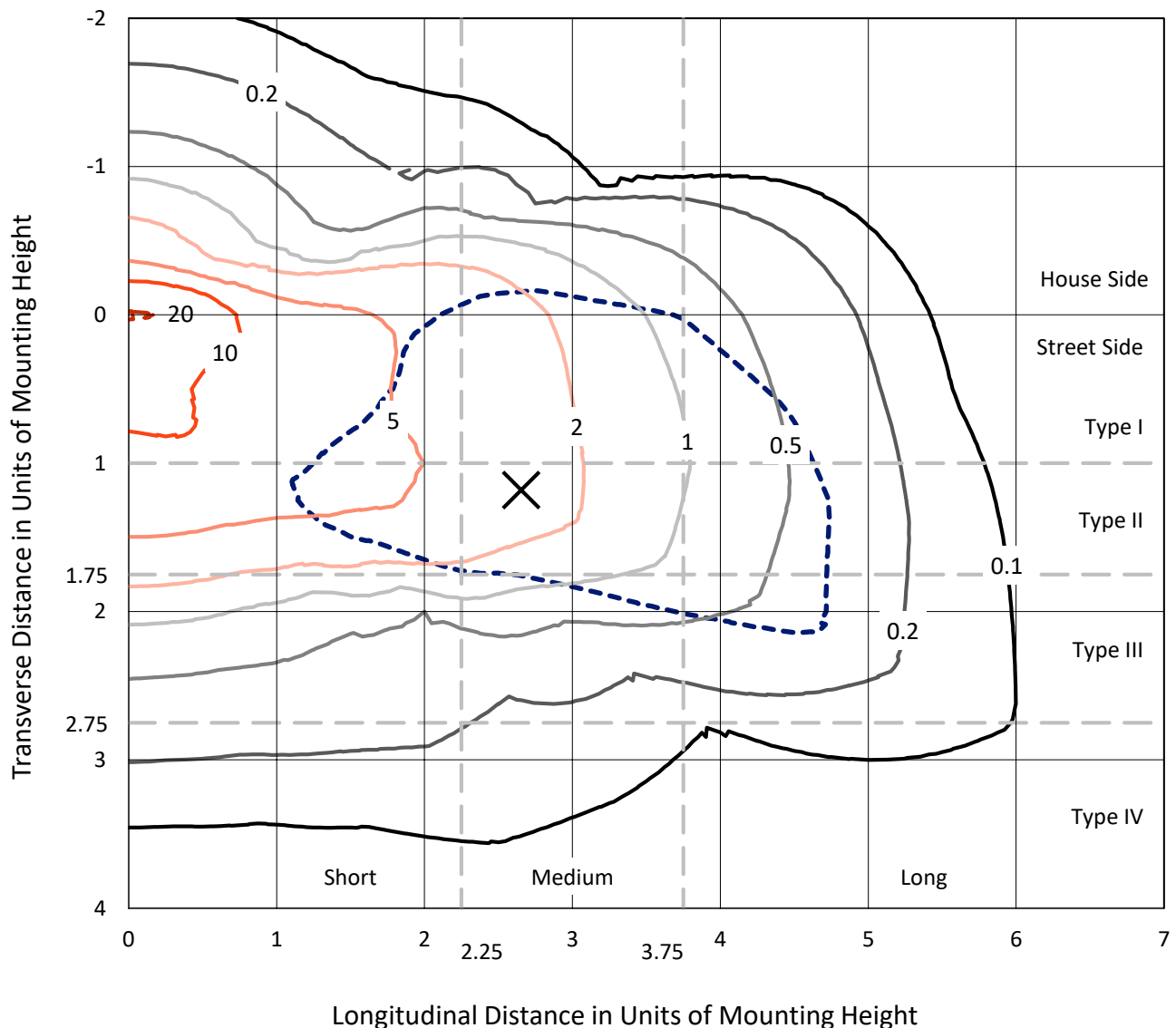
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

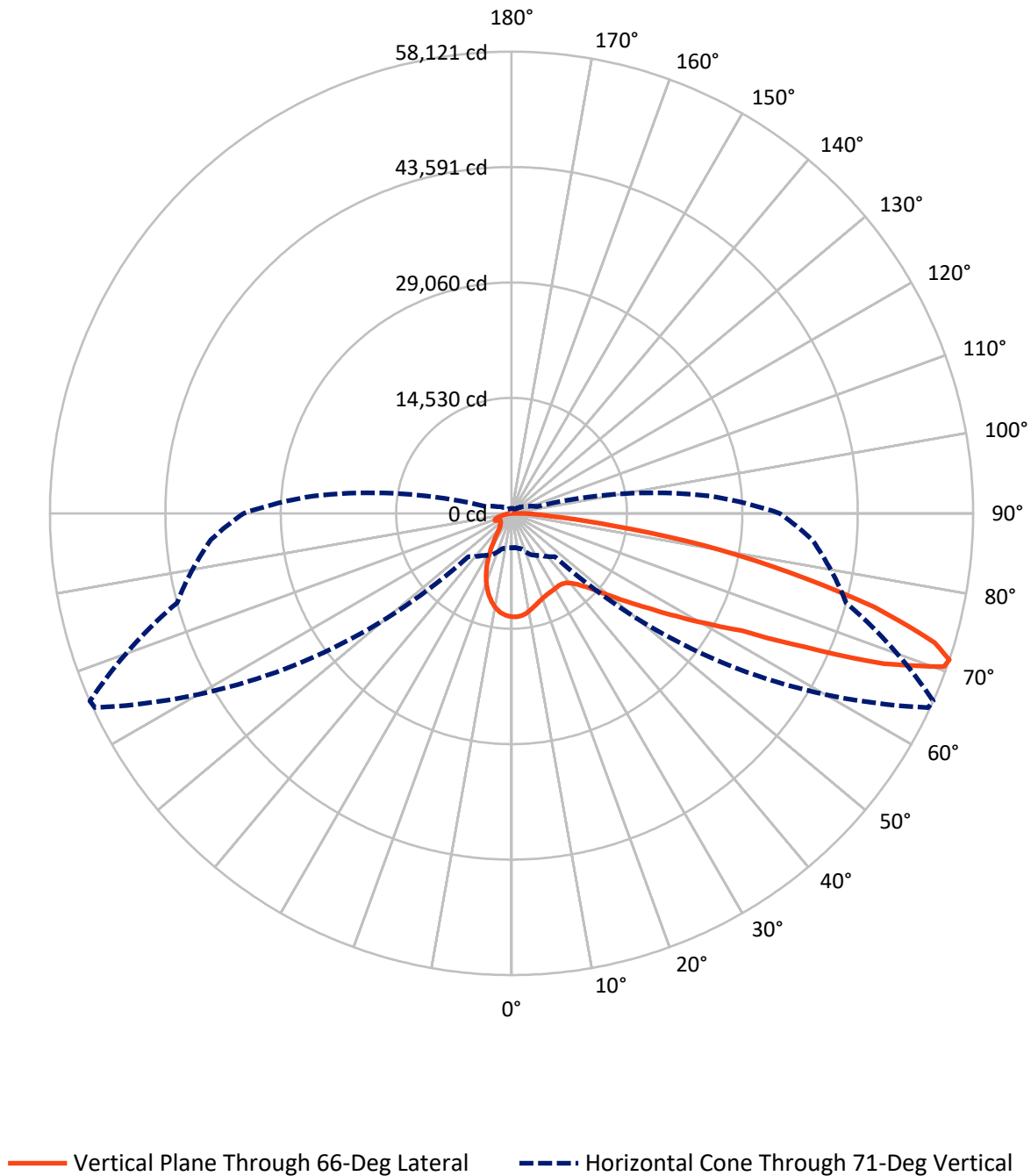
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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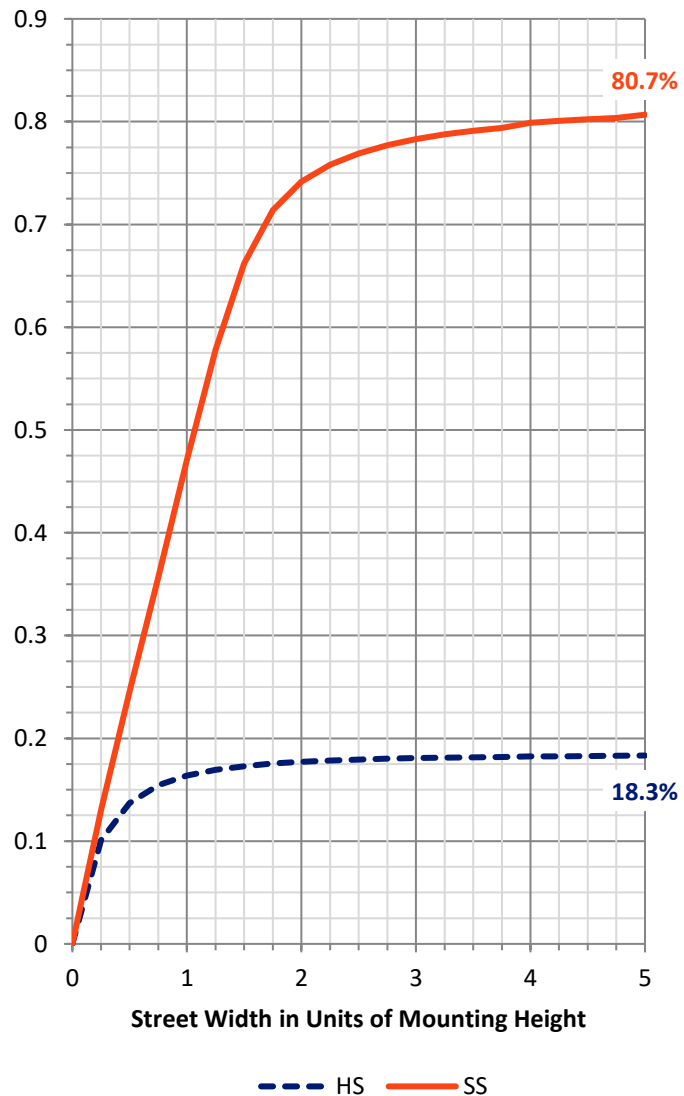
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10531.6	0.0	10531.6
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	46295.4	0.0	46295.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	56827.0	0.0	56827.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1145.9	2.0
10°-20°	2748.3	4.8
20°-30°	3691.7	6.5
30°-40°	4856.4	8.5
40°-50°	7064.8	12.4
50°-60°	11035.9	19.4
60°-70°	13824.3	24.3
70°-80°	10544.8	18.6
80°-90°	1914.8	3.4
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°	56827.0	100.0
0°-180°	56827.0	100.0

Coefficient of Utilization



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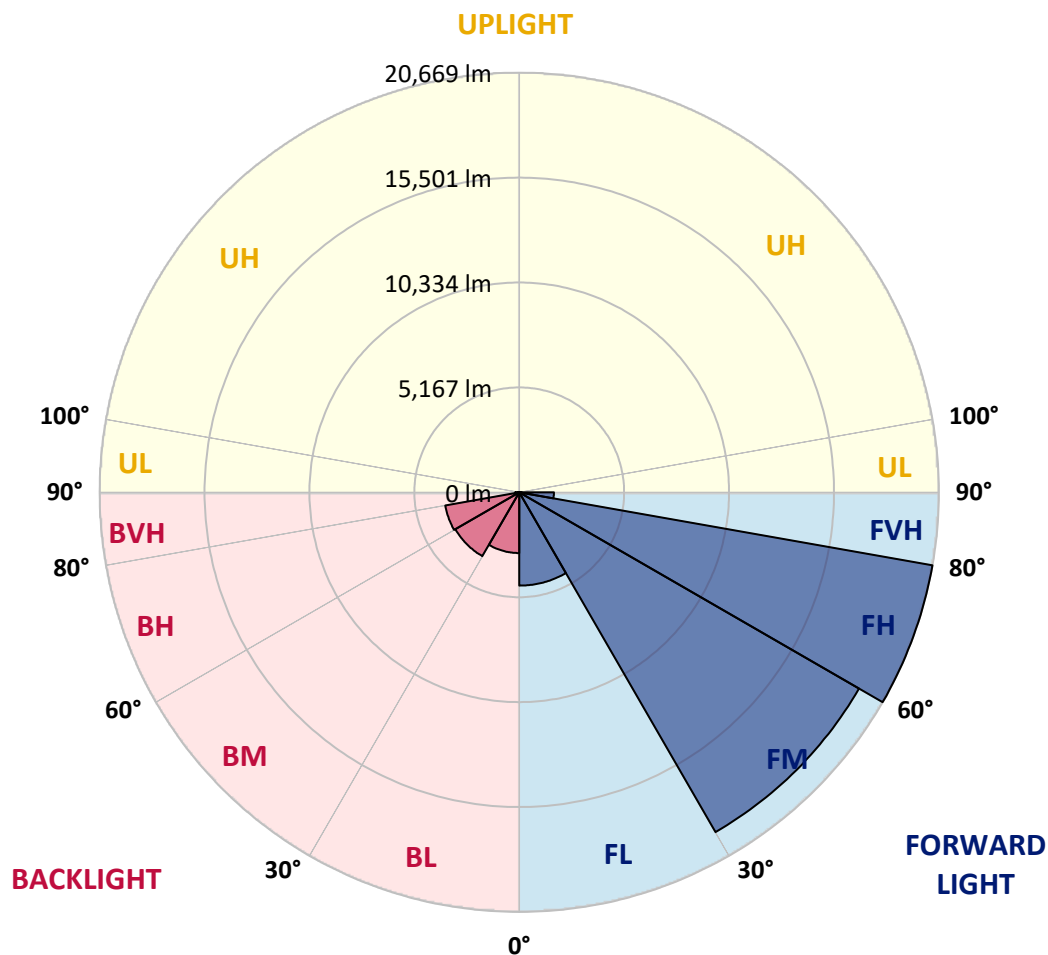
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4595.3	8.1			
FM	(30°-60°)	19324.0	34.0			
FH	(60°-80°)	20668.6	36.4			G5
FVH	(80°-90°)	1707.6	3.0			G5
BL	(0°-30°)	2990.7	5.3	B4/5000		
BM	(30°-60°)	3633.1	6.4	B3/5000		
BH	(60°-80°)	3700.6	6.5	B4/5000		G4/5000
BVH	(80°-90°)	207.3	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	13018.0	13018.0	13018.0	13018.0	13018.0	13018.0	13018.0	13018.0	13018.0	13018.0	13018.0
2.5°	12776.6	12757.0	12815.9	12876.7	12900.2	12939.5	12998.3	13031.7	13029.7	13035.6	13016.0
5°	11929.0	11903.5	12021.3	12117.4	12301.8	12509.8	12762.9	12943.4	12947.3	13049.4	13076.8
7.5°	11126.6	11108.9	11244.3	11399.3	11613.2	11931.0	12341.1	12729.5	12753.1	13029.7	13125.9
10°	10483.0	10479.1	10610.6	10779.3	11028.5	11383.6	11854.5	12423.5	12458.8	12935.6	13133.7
12.5°	9980.8	9988.6	10102.4	10294.7	10557.6	10928.4	11438.5	12080.1	12137.0	12786.4	13088.6
15°	9609.9	9641.3	9733.6	9927.8	10186.8	10563.5	11087.3	11762.3	11848.6	12619.7	13063.1
17.5°	9398.0	9433.4	9498.1	9659.0	9902.3	10265.3	10761.6	11501.3	11579.8	12492.1	13065.1
20°	9335.3	9364.7	9402.0	9500.1	9706.1	10035.7	10504.6	11265.9	11350.3	12390.1	13084.7
22.5°	9458.9	9480.5	9484.4	9476.5	9602.1	9870.9	10318.2	11093.2	11183.5	12323.4	13098.4
25°	9723.7	9753.2	9731.6	9659.0	9617.8	9782.6	10222.1	10979.4	11069.7	12274.4	13070.9
27.5°	10122.0	10126.0	10108.3	10014.1	9819.9	9792.4	10192.7	10912.7	10999.1	12217.5	13014.0
30°	10663.5	10689.1	10657.7	10530.1	10212.3	9949.4	10228.0	10848.0	10926.5	12144.9	12921.8
32.5°	11297.3	11360.1	11358.1	11224.7	10769.5	10300.6	10373.2	10808.7	10869.6	12068.4	12810.0
35°	11954.6	12040.9	12201.8	12144.9	11581.8	10855.8	10651.8	10871.5	10912.7	12058.5	12731.5
37.5°	12637.3	12723.7	13055.2	13208.3	12549.0	11650.4	11091.3	11093.2	11112.8	12178.2	12725.6
40°	13351.5	13443.7	13942.1	14340.4	13802.8	12657.0	11799.6	11556.3	11534.7	12472.5	12841.4
42.5°	14352.1	14434.5	15033.0	15541.1	15193.8	13946.0	12778.6	12270.4	12225.3	13049.4	13212.2
45°	15617.6	15688.3	16324.0	16867.4	16688.9	15417.5	14008.8	13253.4	13245.6	14010.7	13963.7
47.5°	17122.5	17177.4	17748.4	18274.2	18338.9	17110.7	15554.9	14770.0	14642.5	15329.2	15127.1
50°	18690.1	18751.0	19139.5	19704.5	20185.2	19376.9	17544.3	16628.1	16457.4	17069.5	16775.2
52.5°	19728.1	19808.5	20146.0	20862.1	22261.0	21860.8	19896.8	18880.5	18621.5	19178.7	18953.1
55°	19265.0	19445.5	19961.5	21109.3	23920.9	25655.3	22798.6	21507.6	21215.3	21678.3	21544.9
57.5°	17159.8	17407.0	18111.4	19883.1	24154.4	28998.6	27185.7	24601.7	24395.7	24262.3	24323.1
60°	13312.3	13549.7	14422.8	16732.1	22527.8	31439.3	33787.8	28415.9	28117.6	26856.1	26911.0
62.5°	9421.6	9301.9	9900.3	11589.6	18305.6	31725.8	41300.4	33517.1	32536.1	29595.0	29353.7
65°	7184.9	7157.4	7426.2	7963.8	11087.3	28298.1	45775.8	42091.1	40558.8	32816.7	32247.7
67.5°	5903.7	5854.7	6119.5	6902.4	7139.8	18256.5	45873.9	52038.5	50533.6	36827.0	35594.9
70°	4854.0	4799.1	5046.3	6056.7	6598.3	9258.7	38608.5	57863.7	57783.3	41904.7	38121.9
71°	4351.7	4312.5	4608.8	5731.0	6482.5	7716.6	33334.6	57879.4	58120.8	43623.4	37972.8
72.5°	3543.4	3557.1	3871.1	5101.2	6396.2	6814.1	24499.7	55181.7	55691.8	45261.7	36617.1
75°	2354.4	2366.2	2778.2	3924.0	6201.9	6666.9	13465.3	46303.5	47241.4	44280.7	33413.1
77.5°	1581.4	1577.5	1858.0	2691.9	5403.4	6666.9	7895.1	34631.5	35661.6	35233.9	25759.3
80°	1088.9	1081.1	1279.2	1858.0	4090.8	6747.4	6103.8	24270.1	24582.1	19027.6	10469.3
82.5°	667.1	673.0	835.8	1312.6	2784.1	6072.4	5762.4	13233.8	12894.4	5336.7	2615.4
85°	382.6	380.6	533.7	888.8	1787.4	5124.8	5619.2	5695.7	5224.8	1606.9	945.7
87.5°	137.3	147.2	286.5	492.5	1024.2	3568.9	4767.7	2962.6	2670.3	725.9	427.7
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°	13018.0	13018.0	13018.0	13018.0	13018.0	13018.0	13018.0	13018.0	13018.0	13018.0	13018.0
2.5°	13002.3	13014.0	13000.3	12921.8	12855.1	12747.2	12686.4	12602.0	12576.5	12564.7	12596.1
5°	13051.3	13055.2	12939.5	12733.5	12502.0	12229.2	12033.0	11791.7	11677.9	11628.9	11660.3
7.5°	13096.4	13078.8	12825.7	12431.3	12003.6	11528.8	11107.0	10720.4	10494.8	10402.6	10410.4
10°	13102.3	13027.8	12621.6	12011.5	11348.3	10651.8	10004.3	9407.9	9031.2	8785.9	8860.5
12.5°	13041.5	12915.9	12321.5	11468.0	10547.8	9598.2	8723.1	7828.4	7290.8	7041.7	7049.5
15°	12994.4	12766.8	11952.6	10828.4	9592.3	8334.6	7139.8	6088.1	5515.2	5260.2	5140.5
17.5°	12955.2	12605.9	11524.9	10108.3	8464.1	6869.0	5432.8	4495.0	4181.1	4106.5	4075.1
20°	12900.2	12435.2	11048.1	9274.4	7179.0	5228.8	3967.2	3504.2	3506.1	3592.4	3604.2
22.5°	12823.7	12241.0	10539.9	8338.6	5799.7	3808.3	3109.8	2976.4	3111.8	3276.6	3306.0
25°	12709.9	12011.5	9974.9	7304.6	4422.4	2927.3	2656.6	2650.7	2815.5	2988.1	3013.7
27.5°	12549.0	11711.3	9347.0	6194.1	3258.9	2487.8	2379.9	2421.1	2542.8	2668.3	2678.1
30°	12333.2	11362.0	8654.4	5022.8	2554.5	2215.1	2203.3	2240.6	2315.2	2403.5	2411.3
32.5°	12095.8	11006.9	7914.8	3888.7	2187.6	2068.0	2079.7	2097.4	2132.7	2168.0	2175.9
35°	11880.0	10643.9	7157.4	2954.8	2013.0	1971.8	1964.0	1960.1	1964.0	1952.2	1954.2
37.5°	11740.7	10343.7	6368.7	2352.5	1913.0	1887.5	1863.9	1834.5	1801.1	1781.5	1785.4
40°	11689.7	10120.1	5570.2	2032.6	1830.6	1812.9	1767.8	1705.0	1665.8	1654.0	1654.0
42.5°	11827.0	10004.3	4799.1	1871.8	1761.9	1732.5	1657.9	1585.3	1555.9	1553.9	1552.0
45°	12246.9	10051.4	4065.3	1783.5	1699.1	1642.2	1544.1	1483.3	1463.7	1467.6	1465.6
47.5°	13000.3	10347.7	3437.4	1724.6	1636.3	1561.8	1451.9	1402.8	1379.3	1379.3	1381.3
50°	14281.5	11040.3	2937.1	1675.6	1583.3	1487.2	1385.2	1324.4	1293.0	1291.0	1291.0
52.5°	16147.4	12280.2	2625.2	1634.4	1524.5	1420.5	1318.5	1242.0	1204.7	1196.8	1192.9
55°	18486.1	14057.8	2538.8	1606.9	1446.0	1347.9	1238.0	1161.5	1120.3	1102.7	1100.7
57.5°	21101.5	16220.0	2709.5	1573.5	1365.6	1261.6	1149.7	1077.1	1034.0	1012.4	1010.4
60°	23748.2	18580.3	3406.1	1526.4	1298.9	1167.4	1059.5	992.8	949.6	926.1	922.1
62.5°	26398.9	21068.1	4828.5	1522.5	1251.8	1077.1	967.3	910.4	869.2	843.7	837.8
65°	29389.0	23791.4	6445.2	1626.5	1236.1	994.7	873.1	828.0	792.7	769.1	767.1
67.5°	32822.5	26865.9	6290.2	1840.4	1289.0	920.2	784.8	749.5	724.0	704.4	702.4
70°	34433.4	26385.2	3910.3	1991.4	1363.6	847.6	700.4	674.9	655.3	641.6	635.7
71°	33758.4	25053.0	3278.5	1973.8	1355.8	816.2	667.1	647.5	627.8	616.1	610.2
72.5°	31918.1	22847.7	2735.0	1836.4	1267.5	759.3	623.9	604.3	586.6	572.9	569.0
75°	28641.5	20404.9	2189.6	1467.6	1010.4	641.6	547.4	525.8	512.1	504.2	496.4
77.5°	21054.4	14562.1	1693.2	1159.6	743.6	523.9	467.0	451.3	437.5	425.8	419.9
80°	8065.8	5640.8	1139.9	865.2	545.4	414.0	376.7	368.9	355.1	347.3	347.3
82.5°	2171.9	1685.4	608.2	523.9	364.9	302.2	288.4	284.5	272.7	257.0	259.0
85°	879.0	743.6	341.4	288.4	223.7	178.5	194.2	196.2	182.5	162.8	164.8
87.5°	386.5	315.9	190.3	127.5	98.1	68.7	88.3	88.3	80.4	66.7	60.8
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)