

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: P319621

Luminaire Tested: **GAN-SA7D-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319621
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-SA7D-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 45900 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

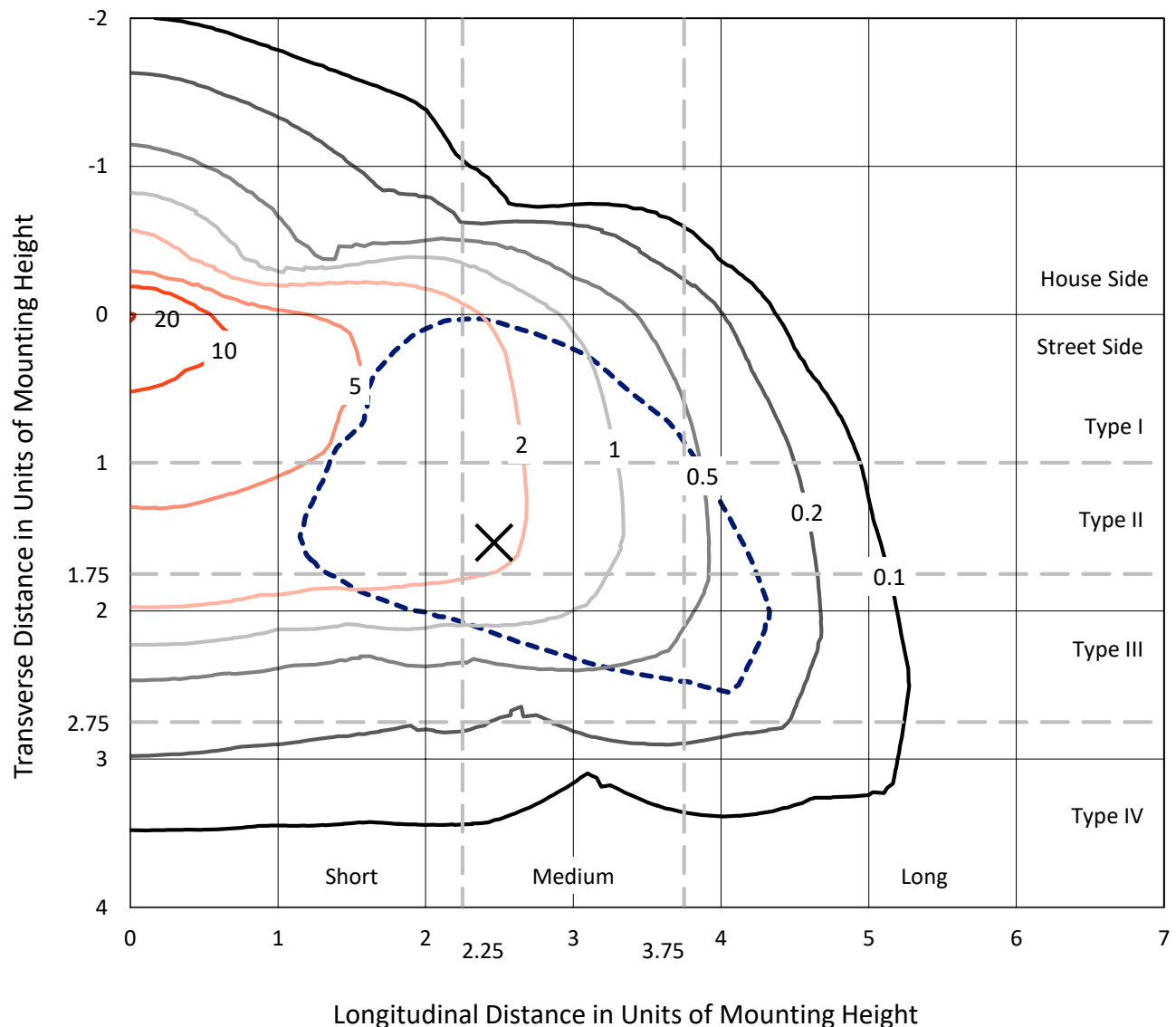
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

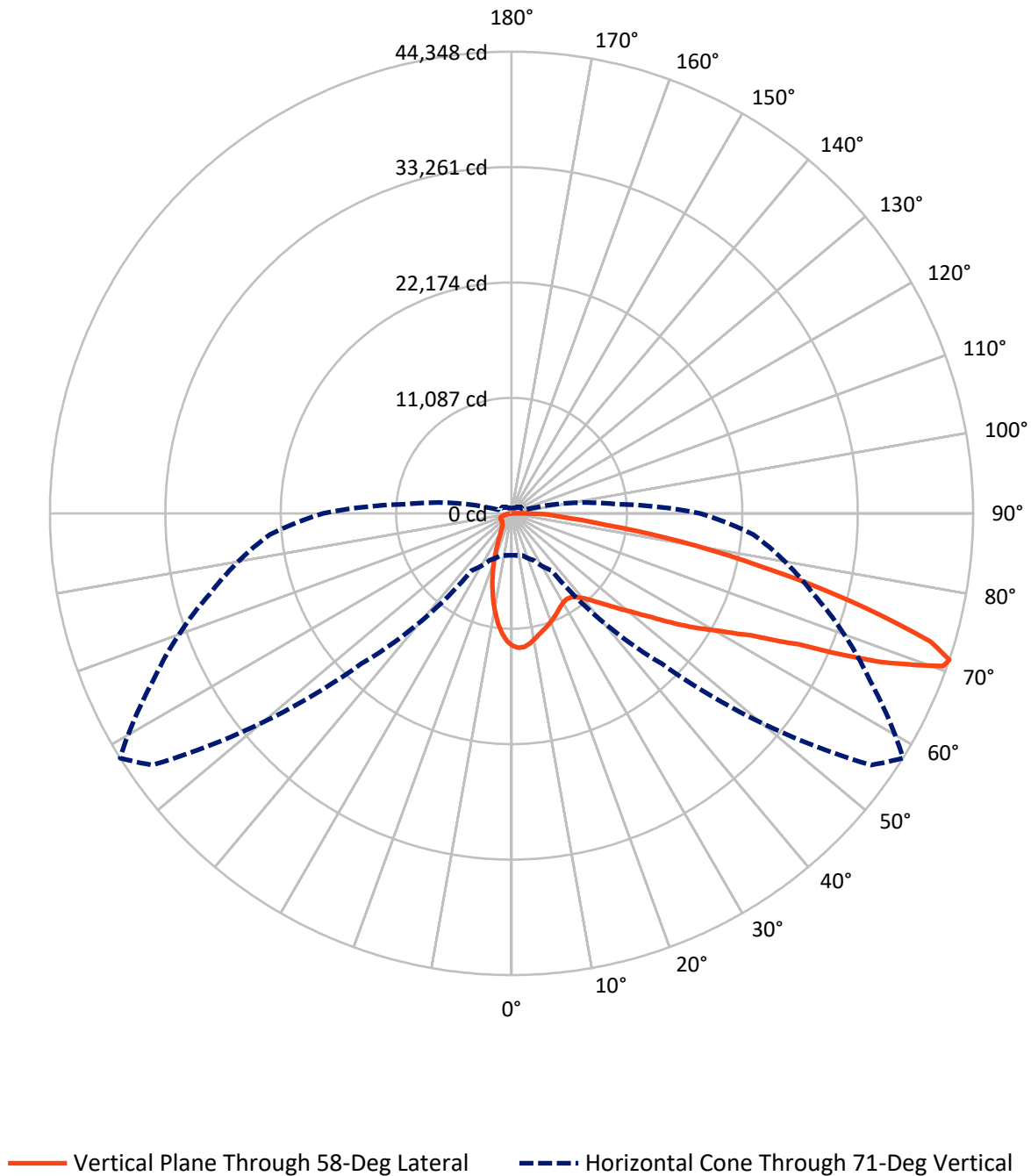
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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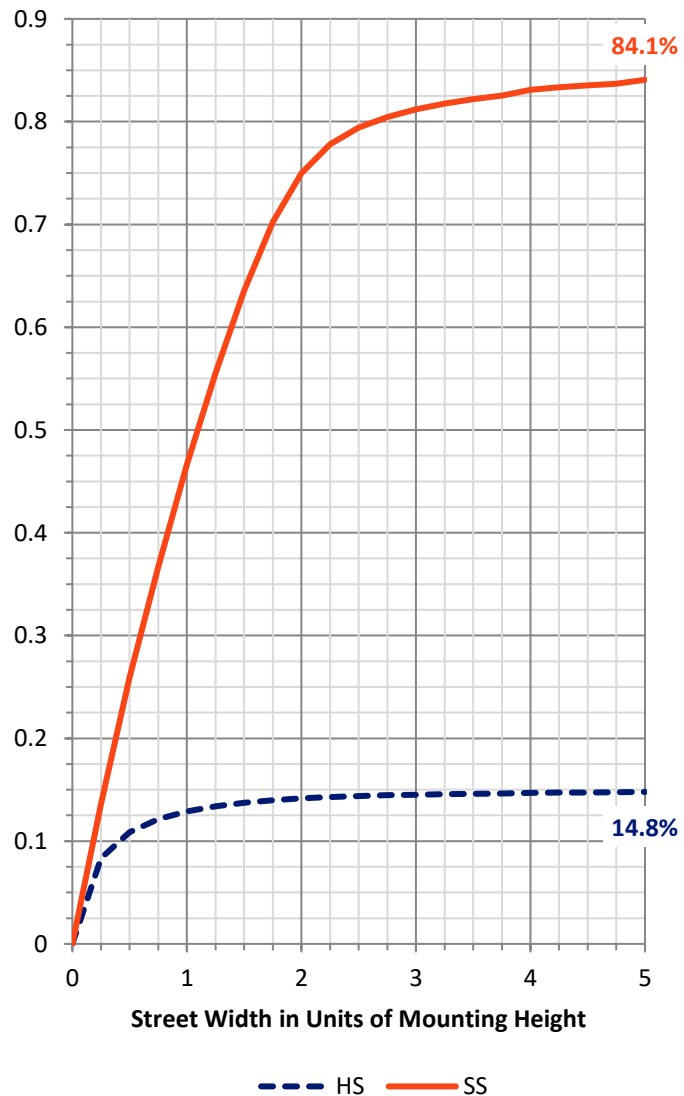
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6862.4	0.0	6862.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	39037.6	0.0	39037.6
	% Fixture	85.0	0.0	85.0
Total	Lumens	45900.0	0.0	45900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1097.1	2.4
10°-20°	2439.6	5.3
20°-30°	3100.5	6.8
30°-40°	3949.4	8.6
40°-50°	5600.4	12.2
50°-60°	8666.9	18.9
60°-70°	11798.8	25.7
70°-80°	7871.2	17.1
80°-90°	1376.2	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°	45900.0	100.0
0°-180°	45900.0	100.0

Coefficient of Utilization



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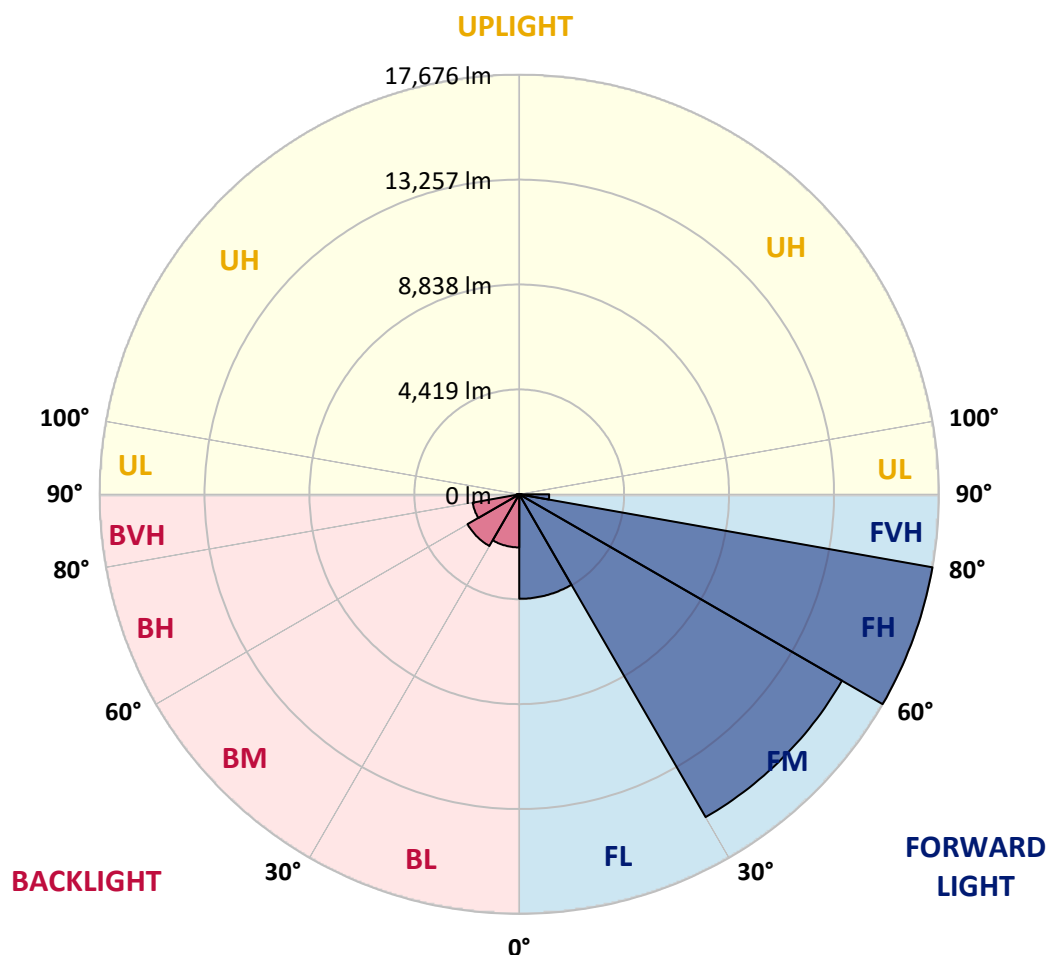
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4400.3	9.6			
FM	(30°-60°)	15700.0	34.2			
FH	(60°-80°)	17675.5	38.5			G5
FVH	(80°-90°)	1261.8	2.7			G5
BL	(0°-30°)	2236.9	4.9	B3/2500		
BM	(30°-60°)	2516.6	5.5	B3/5000		
BH	(60°-80°)	1994.5	4.3	B3/2500		G3/2500
BVH	(80°-90°)	114.3	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12717.4	12717.4	12717.4	12717.4	12717.4	12717.4	12717.4	12717.4	12717.4	12717.4	12717.4
2.5°	13054.7	13037.1	13043.5	13030.7	13000.4	12970.0	12925.2	12933.2	12870.9	12778.1	12663.0
5°	12808.5	12802.1	12850.1	12877.3	12899.6	12882.1	12869.3	12885.2	12794.1	12666.2	12466.3
7.5°	12292.1	12221.7	12282.5	12373.6	12460.0	12525.5	12611.8	12623.0	12565.5	12431.2	12169.0
10°	11558.2	11491.0	11580.6	11722.9	11895.6	12052.2	12226.5	12258.5	12269.7	12148.2	11830.0
12.5°	10797.1	10746.0	10835.5	11035.4	11321.6	11563.0	11841.2	11889.2	11988.3	11906.7	11516.6
15°	10116.0	10096.8	10205.6	10402.2	10731.6	11100.9	11502.2	11590.2	11758.0	11730.9	11272.0
17.5°	9527.6	9522.8	9606.0	9812.2	10176.8	10643.6	11164.9	11313.6	11563.0	11595.0	11070.5
20°	9089.5	9080.0	9137.5	9289.4	9665.1	10194.4	10800.3	11005.0	11364.7	11476.6	10862.7
22.5°	8854.5	8852.9	8854.5	8926.5	9233.4	9725.9	10445.4	10694.8	11171.3	11382.3	10632.4
25°	8814.5	8809.7	8774.6	8766.6	8940.9	9334.2	10093.6	10368.6	10987.4	11316.8	10413.4
27.5°	8918.5	8924.9	8878.5	8803.3	8838.5	9076.8	9788.2	10082.4	10840.3	11304.0	10261.5
30°	9134.3	9131.1	9091.1	9012.8	8944.0	8980.8	9570.8	9865.0	10741.2	11359.9	10157.6
32.5°	9372.5	9390.1	9382.1	9339.0	9236.6	9089.5	9505.2	9793.0	10712.4	11494.2	10112.8
35°	9658.7	9677.9	9735.5	9769.1	9649.1	9412.5	9645.9	9895.4	10795.5	11746.9	10184.8
37.5°	9930.5	9980.1	10141.6	10283.9	10181.6	9917.8	10020.1	10197.6	11053.0	12145.0	10378.2
40°	10243.9	10287.1	10550.9	10853.1	10837.1	10563.7	10622.9	10741.2	11507.0	12715.8	10728.4
42.5°	10552.5	10638.8	11021.0	11449.5	11572.6	11331.2	11425.5	11487.8	12146.6	13472.0	11339.1
45°	10963.4	11056.1	11587.0	12103.4	12391.2	12255.3	12405.6	12429.6	12950.8	14501.7	12226.5
47.5°	11585.4	11690.9	12309.7	12851.7	13291.4	13305.8	13553.6	13544.0	13954.9	15680.1	13344.1
50°	12554.3	12706.2	13213.0	13719.9	14253.9	14551.3	14882.2	14835.9	15158.8	16935.2	14631.2
52.5°	13823.8	13894.1	14269.9	14644.0	15307.5	15974.3	16449.1	16407.5	16524.3	18225.5	16092.6
55°	15139.6	15192.4	15347.5	15552.2	16444.3	17531.5	18535.6	18470.1	18174.3	19565.3	17536.3
57.5°	16322.8	16429.9	16537.1	16621.8	17589.1	19159.2	20670.1	20674.9	19965.0	21010.7	19028.1
60°	16506.7	16601.0	17309.3	17977.6	19547.7	21330.5	22954.9	22906.9	21818.1	22579.2	20690.9
62.5°	14591.2	14803.9	15987.0	17765.0	21434.4	25302.0	25869.6	25810.5	24034.1	24512.2	22627.1
65°	10456.6	10698.0	12125.8	14797.5	20519.8	29678.1	31129.9	30333.7	27056.0	26889.7	24894.3
67.5°	6032.5	6090.1	6708.8	8854.5	15624.1	29906.8	39154.6	38040.2	31748.7	29587.0	26003.9
70°	4460.8	4459.2	4606.3	5448.9	8454.8	24408.3	42971.1	43970.4	36689.1	30474.4	24435.4
71°	4033.9	4038.7	4203.4	4959.7	6696.0	20430.3	42160.5	44347.7	37990.6	30036.3	23300.3
72.5°	3450.3	3466.3	3695.0	4448.0	5632.8	14089.2	38668.5	42083.7	38607.8	28955.4	21523.9
75°	2617.3	2654.1	2970.7	3749.3	5148.3	7145.3	28379.8	33604.9	34297.2	25549.9	15993.4
77.5°	1867.5	1909.0	2267.2	3153.0	4894.1	5385.0	19005.7	24512.2	25239.7	16374.0	7214.1
80°	1180.0	1229.5	1499.7	2508.6	4598.3	5113.2	11943.5	16476.3	13763.0	5239.5	1835.5
82.5°	692.3	730.7	930.5	1638.8	3755.7	4924.5	7027.0	9132.7	5356.2	1582.9	834.6
85°	401.3	418.9	580.4	1044.1	2727.7	4647.9	5162.7	5105.2	2324.7	773.9	394.9
87.5°	187.1	207.9	343.8	545.2	1514.1	3368.8	4080.3	3525.5	1445.4	362.9	185.5
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°	12717.4	12717.4	12717.4	12717.4	12717.4	12717.4	12717.4	12717.4	12717.4	12717.4	12717.4
2.5°	12607.0	12579.9	12466.3	12365.6	12260.1	12122.6	11970.7	11951.5	11858.8	11876.4	11844.4
5°	12357.6	12288.9	12015.5	11767.6	11475.1	11212.8	10928.2	10797.1	10608.5	10595.7	10547.7
7.5°	12001.1	11873.2	11449.5	10979.4	10509.3	10061.7	9618.8	9327.8	9030.4	8904.1	8892.9
10°	11599.8	11382.3	10758.8	10063.3	9385.3	8731.4	8098.2	7629.8	7207.7	7007.8	6999.8
12.5°	11219.2	10897.9	10042.5	9095.9	8168.6	7321.2	6453.0	5837.5	5308.2	5130.8	5055.6
15°	10896.3	10443.8	9345.4	8135.0	7009.4	5832.7	4844.6	4197.0	3707.8	3538.3	3506.3
17.5°	10582.9	10000.9	8630.7	7164.5	5803.9	4510.4	3520.7	3039.4	2778.8	2710.1	2708.5
20°	10271.1	9545.2	7884.0	6171.6	4638.3	3373.6	2706.9	2491.0	2403.1	2395.1	2382.3
22.5°	9917.8	9062.4	7099.0	5175.5	3619.8	2652.5	2300.8	2214.4	2203.2	2232.0	2232.0
25°	9586.8	8582.7	6302.7	4200.2	2815.6	2212.8	2054.5	2037.0	2067.3	2118.5	2123.3
27.5°	9278.2	8120.6	5525.7	3333.6	2256.0	1949.0	1883.5	1904.2	1958.6	2017.8	2019.4
30°	9024.0	7684.1	4771.0	2626.9	1905.8	1752.4	1741.2	1782.7	1841.9	1888.3	1899.5
32.5°	8827.3	7311.6	4041.9	2112.1	1677.2	1605.3	1614.9	1650.0	1686.8	1712.4	1730.0
35°	8736.2	6991.8	3368.8	1781.1	1531.7	1491.7	1504.5	1523.7	1539.7	1558.9	1573.3
37.5°	8752.2	6744.0	2767.6	1574.9	1434.2	1413.4	1413.4	1413.4	1413.4	1423.0	1424.6
40°	8900.9	6601.7	2278.4	1443.8	1368.6	1346.2	1328.7	1312.7	1299.9	1306.3	1303.1
42.5°	9281.4	6588.9	1920.2	1360.6	1315.9	1279.1	1243.9	1221.5	1205.5	1211.9	1215.1
45°	9927.3	6748.8	1678.8	1301.5	1266.3	1210.3	1165.6	1141.6	1130.4	1151.2	1154.4
47.5°	10763.6	7097.4	1531.7	1258.3	1219.9	1146.4	1098.4	1076.0	1079.2	1109.6	1117.6
50°	11841.2	7663.4	1461.4	1231.1	1188.0	1092.0	1042.5	1023.3	1032.9	1076.0	1085.6
52.5°	13024.4	8478.8	1469.4	1223.1	1167.2	1052.1	999.3	976.9	992.9	1032.9	1040.9
55°	14389.8	9458.9	1602.1	1234.3	1136.8	1026.5	964.1	925.7	938.5	975.3	981.7
57.5°	15907.1	10581.3	1869.1	1231.1	1098.4	1002.5	927.3	869.8	879.4	901.8	908.2
60°	17486.8	11937.1	2283.2	1240.7	1080.8	973.7	877.8	805.8	802.6	821.8	825.0
62.5°	19383.0	13505.6	2756.4	1247.1	1092.0	936.9	812.2	741.9	732.3	737.1	740.3
65°	21336.8	14640.8	2579.0	1221.5	1127.2	906.6	754.7	679.5	661.9	658.7	660.3
67.5°	21397.6	13424.1	1808.3	1170.4	1141.6	890.6	711.5	626.8	598.0	586.8	585.2
70°	19189.6	10905.9	1408.6	1116.0	1084.0	865.0	671.5	583.6	540.4	522.8	521.2
71°	18111.9	10039.3	1335.1	1088.8	1040.9	839.4	653.9	564.4	519.6	500.4	497.2
72.5°	16421.9	9000.0	1245.5	1045.7	957.7	773.9	620.4	537.2	490.9	468.5	463.7
75°	11785.2	5885.4	1069.6	932.1	793.0	617.2	543.6	482.9	442.9	415.7	412.5
77.5°	4540.8	2342.3	809.0	775.4	607.6	482.9	447.7	417.3	388.5	361.3	359.7
80°	1403.8	1047.3	590.0	583.6	439.7	359.7	348.6	340.6	329.4	300.6	294.2
82.5°	749.9	601.2	406.1	377.3	287.8	239.8	252.6	255.8	257.4	227.0	223.8
85°	358.1	318.2	228.6	214.2	167.9	134.3	155.1	167.9	169.5	139.1	129.5
87.5°	171.1	166.3	107.1	81.5	62.4	44.8	54.4	67.2	73.5	52.8	46.4
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)