

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: P323783

Luminaire Tested: **GAN-SA9D-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47081 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

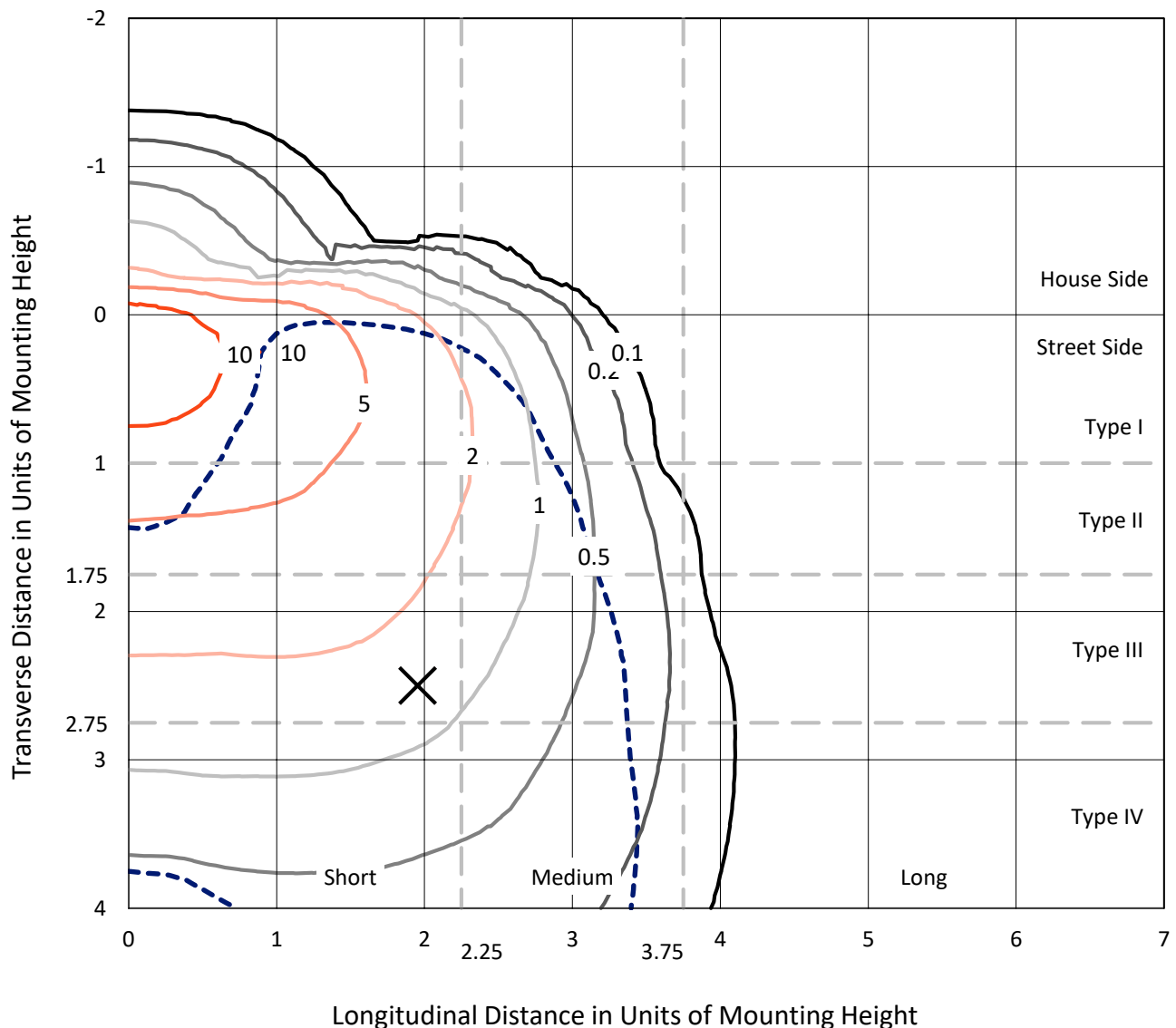
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

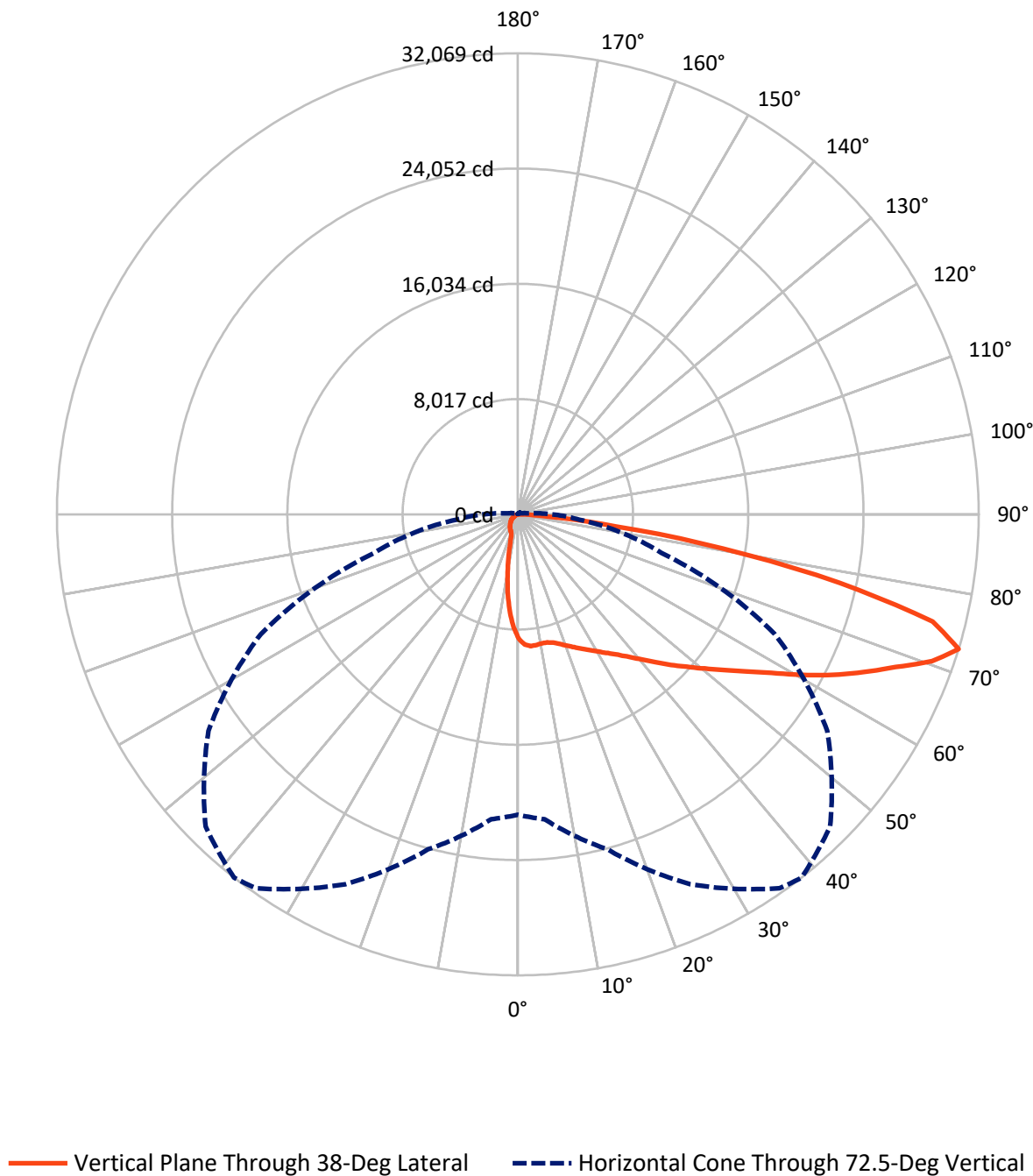
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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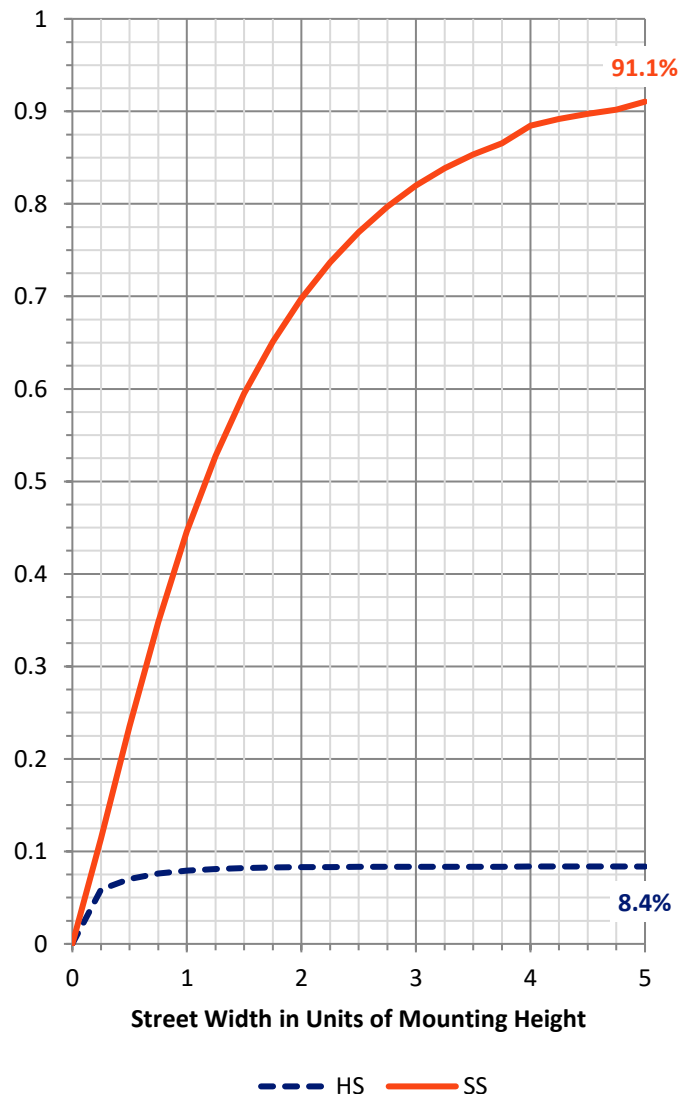
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3962.1	0.0	3962.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	43119.0	0.0	43119.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	47081.0	0.0	47081.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	737.8	1.6
10°-20°	1804.2	3.8
20°-30°	2869.5	6.1
30°-40°	4314.0	9.2
40°-50°	6581.3	14.0
50°-60°	9301.5	19.8
60°-70°	11667.2	24.8
70°-80°	8723.8	18.5
80°-90°	1081.7	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°	47081.0	100.0
0°-180°	47081.0	100.0

Coefficient of Utilization



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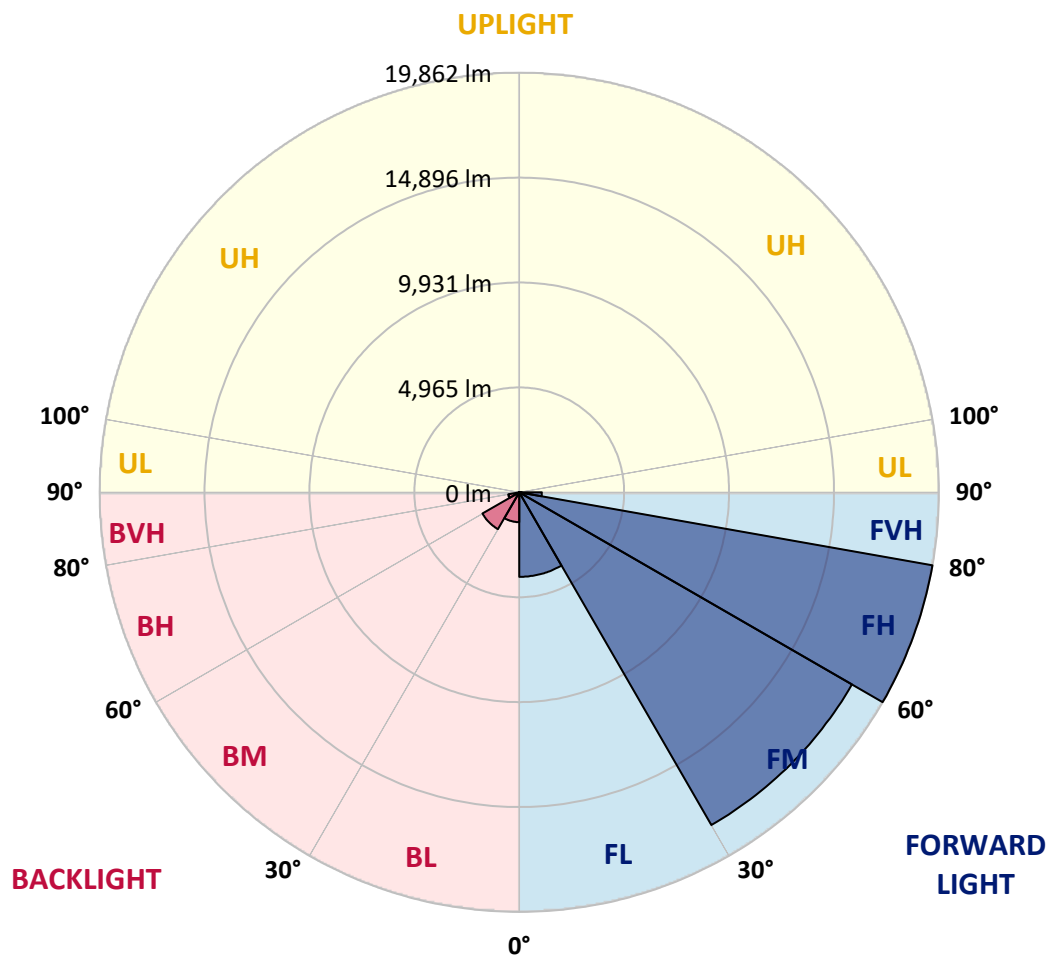
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4000.7	8.5			
FM	(30°-60°)	18184.8	38.6			
FH	(60°-80°)	19861.8	42.2			G5
FVH	(80°-90°)	1071.6	2.3			G5
BL	(0°-30°)	1410.7	3.0	B3/2500		
BM	(30°-60°)	2012.0	4.3	B2/2500		
BH	(60°-80°)	529.2	1.1	B2/1000		G2/1000
BVH	(80°-90°)	10.1	0.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	8658.0	8658.0	8658.0	8658.0	8658.0	8658.0	8658.0	8658.0	8658.0	8658.0	8658.0
2.5°	9189.9	9191.8	9170.3	9135.1	9090.2	9066.7	9027.6	8965.0	8898.5	8779.3	8650.2
5°	9377.6	9377.6	9350.2	9303.3	9230.9	9209.4	9135.1	9035.4	8898.5	8705.0	8487.9
7.5°	9358.0	9361.9	9324.8	9275.9	9203.6	9184.0	9094.1	8982.6	8812.5	8577.9	8300.2
10°	9256.4	9266.1	9236.8	9213.3	9146.9	9125.4	9041.3	8929.8	8759.7	8509.4	8190.7
12.5°	9152.7	9162.5	9172.3	9193.8	9152.7	9144.9	9078.4	8984.6	8822.3	8562.2	8202.5
15°	9086.3	9105.8	9176.2	9260.3	9270.0	9262.2	9219.2	9131.2	8967.0	8697.1	8286.5
17.5°	9086.3	9117.5	9264.2	9424.5	9481.2	9487.1	9449.9	9326.8	9131.2	8841.8	8364.7
20°	9162.5	9205.5	9434.3	9661.1	9755.0	9755.0	9682.6	9510.5	9281.8	8972.8	8417.5
22.5°	9358.0	9414.7	9702.2	9964.2	10063.9	10042.4	9944.6	9694.3	9438.2	9121.4	8484.0
25°	9743.2	9786.2	10085.4	10349.4	10410.0	10361.1	10237.9	9917.2	9637.6	9322.8	8605.2
27.5°	10239.9	10245.7	10554.7	10777.6	10740.4	10707.2	10552.7	10196.9	9925.1	9610.3	8814.5
30°	10785.4	10785.4	11057.2	11227.3	11113.9	11086.5	10932.0	10535.1	10292.7	10001.3	9111.7
32.5°	11313.3	11336.8	11557.7	11665.3	11538.2	11510.8	11360.3	10963.3	10781.5	10597.7	9575.1
35°	11823.7	11841.3	12050.5	12109.1	11987.9	11995.7	11888.2	11551.9	11483.4	11460.0	10273.1
37.5°	12318.4	12322.3	12535.4	12572.5	12511.9	12578.4	12588.2	12291.0	12418.1	12607.7	11256.6
40°	12770.0	12773.9	12985.1	13080.9	13184.5	13270.6	13346.8	13188.5	13608.8	14048.8	12427.8
42.5°	13131.8	13172.8	13440.7	13622.5	13896.3	14060.5	14267.8	14260.0	15026.4	15687.3	13843.5
45°	13450.5	13520.9	13894.3	14213.0	14682.3	14944.3	15268.9	15523.1	16622.0	17511.6	15276.7
47.5°	13870.9	13937.3	14363.6	14885.7	15511.3	15855.5	16393.2	16942.6	18375.9	19302.7	16676.7
50°	14463.3	14434.0	14854.4	15603.2	16406.9	16858.5	17625.0	18448.2	20116.1	20863.0	17499.9
52.5°	15094.9	15083.1	15394.0	16383.4	17462.7	17990.7	19003.5	20004.6	21780.0	21938.4	17877.3
55°	15877.0	15792.9	16054.9	17273.1	18716.1	19283.1	20475.8	21545.4	23105.7	22544.5	18066.9
57.5°	16696.3	16557.4	16807.7	18264.4	20129.7	20800.4	22106.6	23047.0	23987.5	22959.1	18065.0
60°	17542.9	17378.7	17675.9	19504.1	21885.6	22661.9	23874.1	24061.8	24810.7	23168.3	17932.0
62.5°	18250.7	18152.9	18594.8	20829.7	23846.8	24609.3	25209.6	24984.7	25504.9	23330.6	17621.1
65°	18999.6	19005.5	19719.1	22376.4	25931.1	26445.3	26496.2	26181.4	26085.6	23297.3	16569.2
67.5°	20012.4	20106.3	21297.1	24476.4	27958.7	28355.7	28351.8	27477.7	26509.9	21975.5	14236.5
70°	21083.9	21304.9	23115.5	26879.4	30172.1	30574.9	30367.7	28302.9	24961.3	17769.7	10075.6
72.5°	20904.0	21287.3	24126.4	28394.8	31761.8	32068.8	30721.6	26275.2	19728.9	10327.9	4289.9
75°	16127.3	16571.1	22122.2	26893.1	30093.9	29818.2	26396.5	20446.5	10781.5	2882.1	965.9
77.5°	8519.2	8755.8	14613.9	20487.6	23465.5	22888.7	18594.8	11342.7	3286.8	713.7	434.1
80°	4462.0	4516.7	6368.4	11624.2	14482.9	14486.8	11020.0	4982.1	1355.0	365.6	291.3
82.5°	2389.4	2436.3	3365.1	5371.2	7588.5	6878.7	4219.5	2741.3	788.0	207.3	279.6
85°	574.9	584.6	1908.4	2453.9	2983.8	2131.3	1253.3	2301.4	213.1	121.2	226.8
87.5°	220.9	224.9	707.8	1061.7	760.6	492.7	586.6	858.4	27.4	46.9	35.2
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°	8658.0	8658.0	8658.0	8658.0	8658.0	8658.0	8658.0	8658.0	8658.0	8658.0	8658.0
2.5°	8572.0	8521.2	8396.0	8237.7	8096.9	7995.2	7842.7	7743.0	7676.5	7674.5	7649.1
5°	8355.0	8251.3	7981.5	7660.8	7369.5	7107.5	6798.6	6554.1	6372.3	6343.0	6280.4
7.5°	8122.3	7952.2	7537.7	7037.1	6548.3	6051.6	5474.8	5117.0	4810.0	4663.4	4647.7
10°	7979.6	7741.0	7152.5	6429.0	5662.5	4855.0	4100.3	3578.2	3200.8	3093.3	3013.1
12.5°	7950.2	7635.4	6855.3	5858.1	4763.1	3695.5	2860.6	2305.3	2004.2	1908.4	1882.9
15°	7979.6	7586.5	6605.0	5293.0	3851.9	2622.0	1920.1	1597.5	1484.1	1456.7	1454.7
17.5°	7997.2	7527.9	6321.5	4665.3	2968.1	1873.2	1470.4	1376.5	1358.9	1357.0	1360.9
20°	7995.2	7437.9	5983.2	3965.3	2207.5	1472.3	1329.6	1310.0	1306.1	1308.1	1306.1
22.5°	7981.5	7332.4	5611.7	3243.8	1667.9	1315.9	1269.0	1257.3	1255.3	1255.3	1255.3
25°	8006.9	7248.3	5203.0	2553.6	1374.6	1243.6	1214.2	1204.5	1202.5	1202.5	1198.6
27.5°	8098.8	7201.3	4755.3	1965.1	1241.6	1179.0	1155.6	1153.6	1147.8	1145.8	1149.7
30°	8247.4	7201.3	4264.5	1529.0	1161.4	1112.6	1095.0	1091.1	1089.1	1087.1	1089.1
32.5°	8509.4	7256.1	3728.7	1270.9	1085.2	1038.3	1026.5	1032.4	1026.5	1026.5	1026.5
35°	8982.6	7420.3	3167.6	1108.7	1005.0	965.9	954.2	962.0	958.1	958.1	956.1
37.5°	9672.8	7725.4	2602.5	1010.9	934.6	893.6	877.9	889.7	885.7	885.7	883.8
40°	10513.6	8169.2	2064.8	936.6	866.2	823.2	809.5	815.4	805.6	805.6	809.5
42.5°	11551.9	8732.3	1595.5	864.2	797.8	756.7	748.9	743.0	725.4	715.6	717.6
45°	12705.5	9318.9	1243.6	793.8	733.2	700.0	688.3	672.6	643.3	623.7	625.7
47.5°	13735.9	9770.6	1010.9	725.4	674.6	649.2	631.6	602.2	559.2	535.8	537.7
50°	14277.6	9839.0	860.3	657.0	619.8	594.4	569.0	524.0	473.2	447.8	445.8
52.5°	14416.4	9518.4	748.9	594.4	565.1	535.8	502.5	441.9	385.2	357.8	353.9
55°	14467.2	9029.5	649.2	535.8	506.4	473.2	430.2	361.7	308.9	281.6	279.6
57.5°	14299.1	8300.2	570.9	483.0	447.8	406.7	353.9	289.4	238.5	217.0	217.0
60°	13925.6	7312.8	510.3	426.3	387.1	340.2	285.5	224.9	177.9	160.3	160.3
62.5°	13180.6	6034.0	453.6	367.6	330.4	281.6	230.7	170.1	125.1	115.4	117.3
65°	11774.8	4577.3	396.9	314.8	281.6	232.7	179.9	121.2	84.1	84.1	88.0
67.5°	9602.4	3179.3	338.3	267.9	242.5	189.7	136.9	84.1	58.7	66.5	74.3
70°	6356.7	1783.2	289.4	220.9	207.3	150.6	101.7	56.7	46.9	62.6	76.3
72.5°	2399.1	694.1	242.5	177.9	179.9	115.4	72.3	43.0	43.0	68.4	89.9
75°	668.7	340.2	174.0	131.0	140.8	84.1	52.8	37.2	41.1	78.2	105.6
77.5°	393.0	250.3	113.4	76.3	95.8	58.7	35.2	29.3	35.2	66.5	101.7
80°	316.8	133.0	66.5	39.1	52.8	33.2	23.5	17.6	9.8	25.4	52.8
82.5°	316.8	80.2	31.3	27.4	27.4	17.6	11.7	7.8	2.0	0.0	13.7
85°	213.1	33.2	19.6	17.6	13.7	5.9	3.9	2.0	0.0	0.0	0.0
87.5°	35.2	13.7	7.8	3.9	2.0	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)