

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: P533702

Luminaire Tested: **GLAN-SA9A-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9A-827-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26781 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

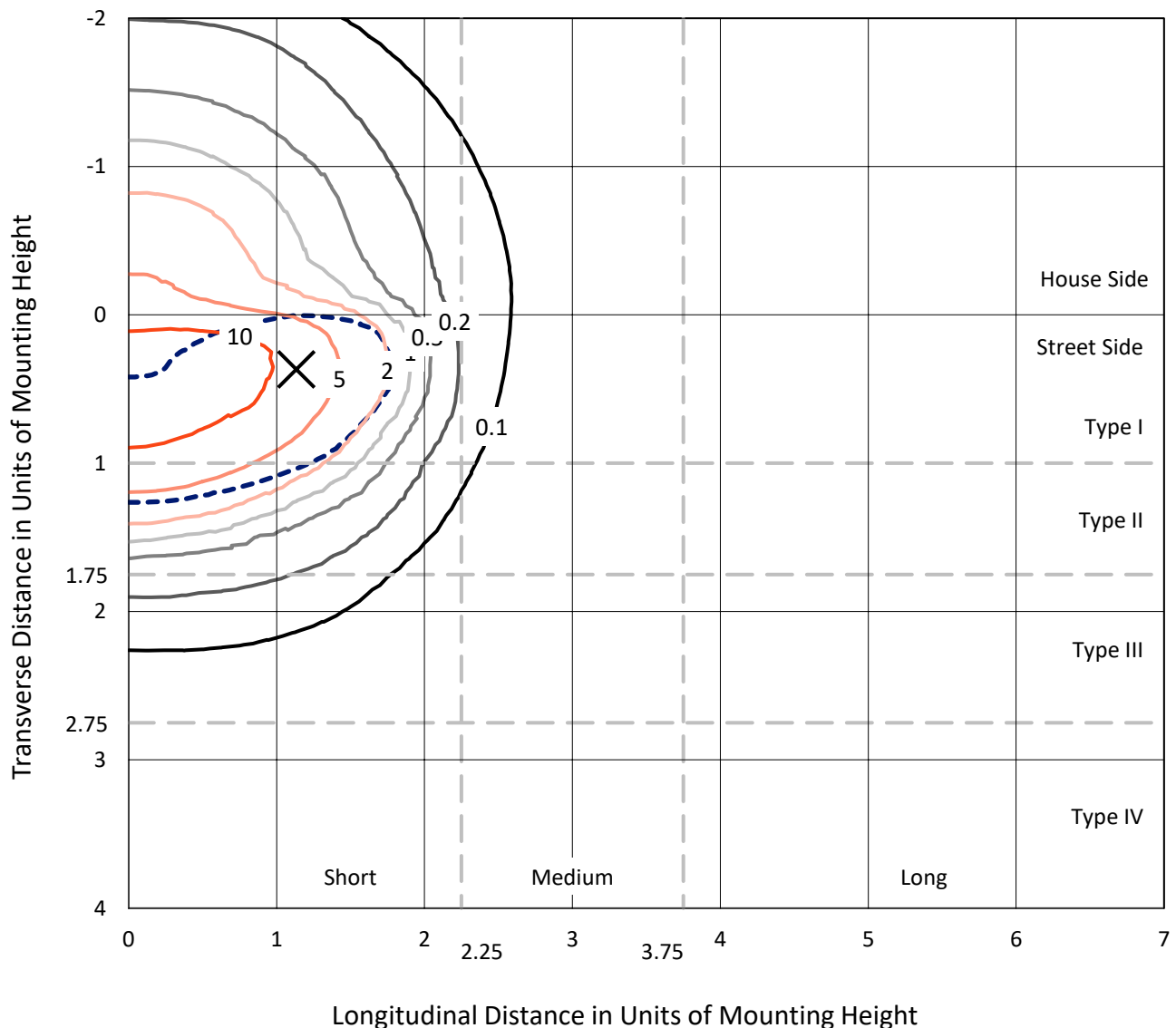
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

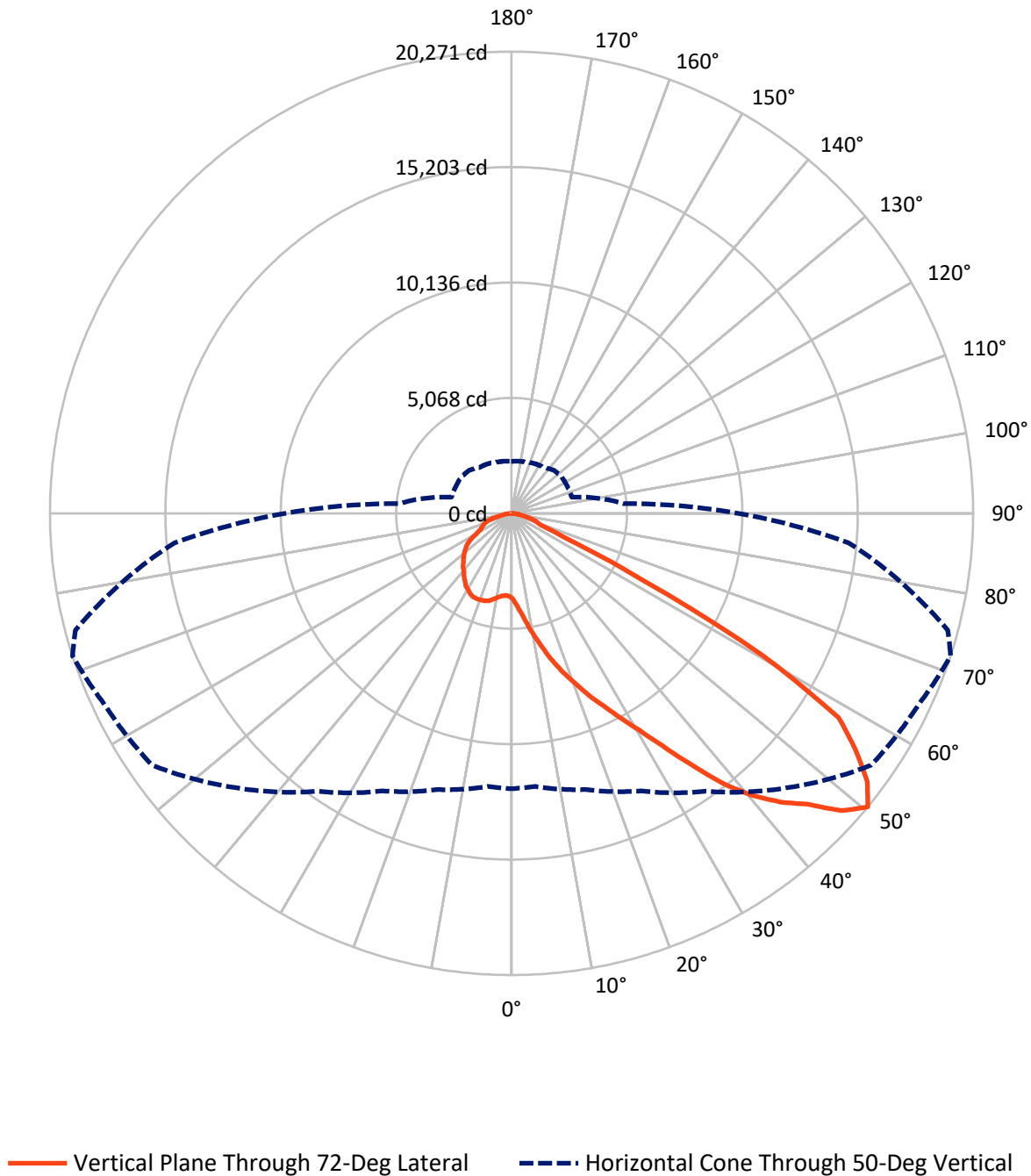
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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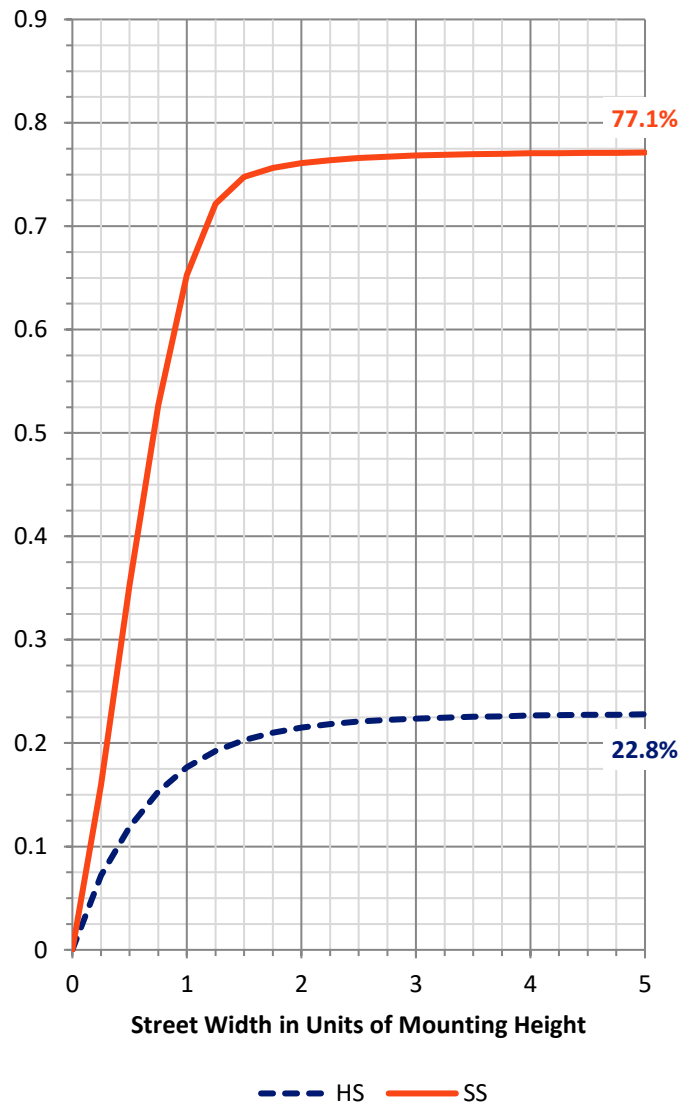
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6135.7	0.0	6135.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	20645.3	0.0	20645.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	26781.0	0.0	26781.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.5	1.6
10°-20°	1639.4	6.1
20°-30°	3178.6	11.9
30°-40°	5265.8	19.7
40°-50°	7368.0	27.5
50°-60°	6215.9	23.2
60°-70°	1894.6	7.1
70°-80°	664.7	2.5
80°-90°	115.6	0.4
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°	26781.0	100.0
0°-180°	26781.0	100.0

Coefficient of Utilization



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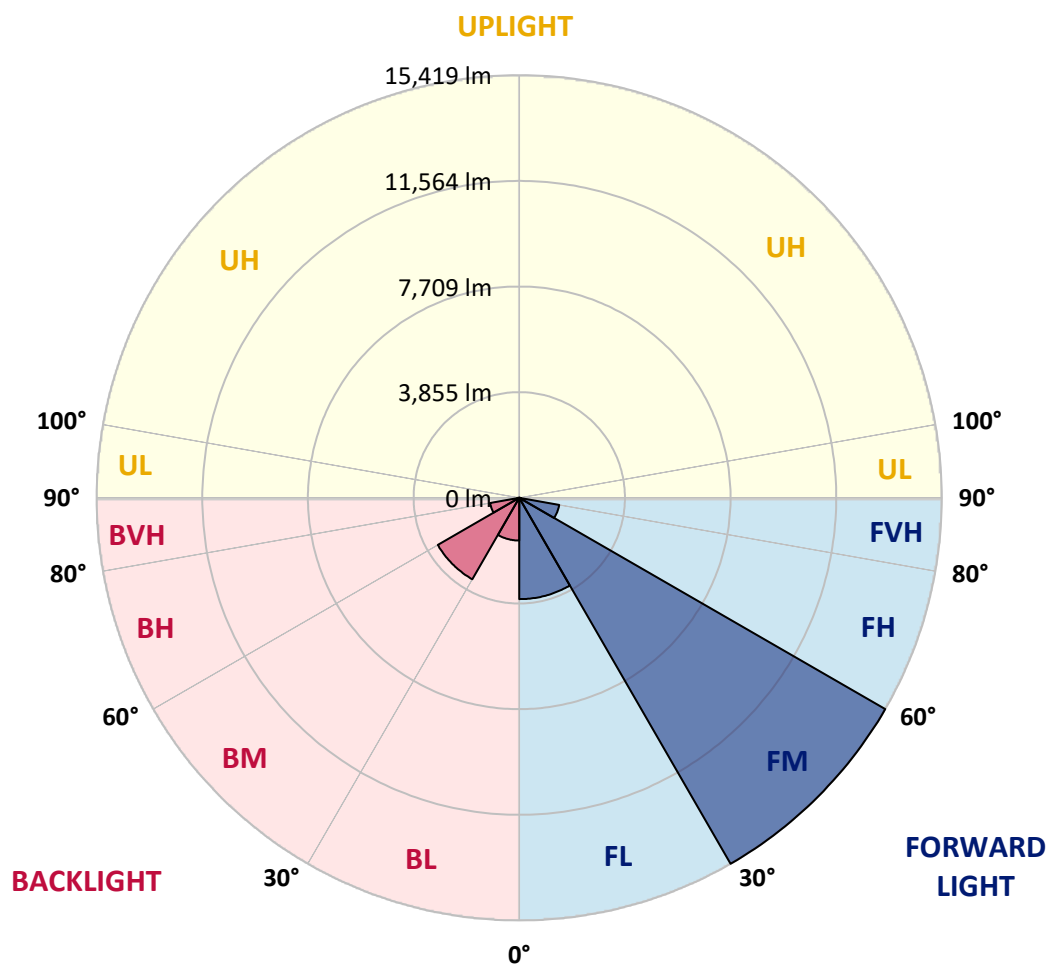
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3696.7	13.8			
FM	(30°-60°)	15418.5	57.6			
FH	(60°-80°)	1478.3	5.5			G1/1800
FVH	(80°-90°)	51.8	0.2			G1/100
BL	(0°-30°)	1559.7	5.8	B3/2500		
BM	(30°-60°)	3431.2	12.8	B3/5000		
BH	(60°-80°)	1081.0	4.0	B3/2500		G3/2500
BVH	(80°-90°)	63.8	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3728.1	3728.1	3728.1	3728.1	3728.1	3728.1	3728.1	3728.1	3728.1	3728.1	3728.1
2.5°	4795.2	4765.4	4675.9	4646.1	4540.1	4347.8	4281.6	4086.0	4003.2	3927.0	3837.5
5°	6064.4	5925.3	5915.3	5746.3	5501.1	5358.6	4934.4	4649.4	4387.6	4255.1	4009.8
7.5°	6873.0	6876.4	6876.4	6737.2	6541.6	6180.4	5799.3	5285.7	4891.3	4695.8	4278.3
10°	7641.9	7575.6	7539.1	7525.9	7393.3	7042.0	6634.4	5998.2	5458.0	5229.3	4480.4
12.5°	8185.3	8129.0	8211.9	8168.8	8072.7	7844.0	7459.6	6733.9	6057.8	5749.6	4805.2
15°	8443.8	8483.6	8549.9	8669.2	8626.1	8539.9	8115.8	7489.4	6704.0	6356.1	5093.5
17.5°	8841.5	8732.1	8811.7	8960.8	9080.1	9040.3	8798.4	8036.2	7343.6	6916.1	5481.2
20°	9119.9	9056.9	9096.7	9269.0	9358.5	9583.8	9457.9	8752.0	7956.7	7506.0	5938.5
22.5°	9915.2	9822.4	9693.2	9719.7	9752.8	9911.9	9941.7	9537.4	8669.2	8192.0	6372.6
25°	10896.1	10810.0	10657.5	10501.8	10405.7	10375.8	10478.6	10153.8	9351.8	8858.1	6839.9
27.5°	11976.5	11830.6	11734.5	11413.1	11154.6	11114.8	11065.1	10889.5	10160.4	9626.9	7366.8
30°	13027.0	12911.0	12781.7	12268.1	11999.7	11956.6	11711.3	11761.1	11038.6	10445.4	7963.3
32.5°	13822.3	13832.2	13537.3	13149.6	12897.7	12669.1	12579.6	12722.1	12165.3	11688.1	8629.4
35°	14465.2	14495.0	14213.3	13862.1	13590.3	13749.4	13709.6	13775.9	13510.8	12927.5	9404.9
37.5°	15091.5	14942.4	14640.8	14471.8	14329.3	14591.1	14929.1	14985.5	15035.2	14349.2	10306.2
40°	15194.3	15207.5	15031.9	15151.2	14972.2	15366.6	16152.0	16079.1	16281.2	15681.4	11283.8
42.5°	15048.4	15078.3	15147.9	15316.9	15747.7	16221.6	17388.1	17089.8	17335.0	16801.5	12234.9
45°	14809.8	14687.2	14773.4	15416.3	16161.9	17215.7	18518.1	18286.1	18206.6	17759.2	13368.3
47.5°	13669.9	13795.8	14064.2	14856.2	15976.3	17388.1	19320.1	19267.0	19505.6	19190.8	14398.9
50°	12089.1	12039.4	12556.4	13447.8	14892.7	17050.0	19277.0	19757.5	20271.2	19833.7	14859.6
52.5°	9053.6	9318.7	9762.8	10869.6	12930.9	15207.5	18335.8	19137.8	19555.4	19462.6	14488.4
55°	5723.1	5802.6	6071.1	7386.7	9242.5	12205.1	15717.9	17577.0	18322.6	18670.5	14147.1
57.5°	2780.4	2631.2	2959.3	4016.5	5338.7	8208.5	12122.3	15310.2	16930.7	17560.4	13404.7
60°	1451.5	1507.8	1637.1	2014.9	2760.5	4261.7	7555.7	10203.5	12679.0	13646.7	10160.4
62.5°	1202.9	1222.8	1309.0	1497.9	1835.9	2452.3	3857.4	4974.2	6465.4	7337.0	5779.5
65°	1020.7	1030.6	1123.4	1249.3	1464.7	1726.5	1985.0	2077.8	2515.3	2581.5	2054.6
67.5°	851.7	861.6	961.0	1080.3	1219.5	1289.1	1355.4	1348.8	1398.5	1378.6	1375.3
70°	656.2	666.1	768.8	894.8	964.3	924.6	1130.0	1176.4	1196.3	1212.9	1239.4
72.5°	473.9	493.8	573.3	662.8	626.3	719.1	931.2	1000.8	1027.3	1037.3	1070.4
75°	344.6	351.3	371.2	344.6	397.7	500.4	656.2	742.3	775.5	785.4	835.1
77.5°	152.4	155.8	159.1	198.8	255.2	311.5	391.0	460.6	507.0	520.3	533.5
80°	79.5	82.8	102.7	135.9	182.3	228.7	285.0	324.8	354.6	357.9	371.2
82.5°	49.7	53.0	72.9	96.1	129.2	169.0	208.8	241.9	265.1	268.4	271.7
85°	23.2	29.8	43.1	59.7	86.2	109.4	112.7	96.1	102.7	106.0	99.4
87.5°	6.6	9.9	13.3	9.9	13.3	13.3	16.6	19.9	19.9	19.9	23.2
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°	3728.1	3728.1	3728.1	3728.1	3728.1	3728.1	3728.1	3728.1	3728.1	3728.1	3728.1
2.5°	3787.8	3758.0	3642.0	3598.9	3486.2	3506.1	3446.5	3443.1	3429.9	3426.6	3423.3
5°	3880.6	3787.8	3648.6	3542.6	3479.6	3473.0	3429.9	3429.9	3443.1	3453.1	3429.9
7.5°	4033.0	3927.0	3691.7	3592.3	3535.9	3526.0	3496.2	3473.0	3502.8	3492.9	3466.3
10°	4208.7	4023.1	3774.5	3688.4	3595.6	3572.4	3572.4	3582.3	3532.6	3549.2	3522.7
12.5°	4404.2	4155.6	3880.6	3781.2	3671.8	3658.6	3651.9	3579.0	3605.5	3592.3	3526.0
15°	4652.7	4308.1	4016.5	3847.4	3754.7	3695.0	3608.8	3595.6	3579.0	3545.9	3516.1
17.5°	4921.1	4473.8	4079.4	3867.3	3728.1	3685.1	3618.8	3549.2	3499.5	3506.1	3482.9
20°	5149.8	4626.2	4102.6	3887.2	3708.3	3625.4	3522.7	3479.6	3426.6	3423.3	3420.0
22.5°	5421.5	4831.7	4135.8	3834.2	3648.6	3562.4	3492.9	3416.6	3380.2	3333.8	3357.0
25°	5746.3	4911.2	4142.4	3804.4	3605.5	3453.1	3416.6	3333.8	3320.5	3254.3	3267.5
27.5°	5981.6	4954.3	4089.4	3711.6	3506.1	3390.1	3323.8	3264.2	3241.0	3191.3	3178.0
30°	6296.4	5020.6	3976.7	3595.6	3406.7	3277.5	3237.7	3224.4	3158.2	3105.1	3098.5
32.5°	6654.3	5063.6	3903.8	3476.3	3304.0	3204.5	3224.4	3161.5	3078.6	3032.2	3019.0
35°	6939.3	5080.2	3721.5	3340.4	3234.4	3171.4	3148.2	3135.0	3015.7	2972.6	2939.4
37.5°	7373.4	5043.8	3569.1	3244.3	3158.2	3135.0	3115.1	3025.6	2889.7	2826.8	2780.4
40°	7880.5	5033.8	3373.6	3108.4	3085.2	3111.8	3052.1	2912.9	2724.0	2654.4	2621.3
42.5°	8367.6	5103.4	3250.9	3035.5	3005.7	3015.7	2932.8	2724.0	2631.2	2591.5	2538.5
45°	9182.8	5249.2	3048.8	2922.9	2909.6	2903.0	2803.6	2584.8	2531.8	2482.1	2472.2
47.5°	9918.5	5153.1	2919.6	2806.9	2820.1	2783.7	2571.6	2502.0	2442.3	2392.6	2376.1
50°	9961.6	4924.5	2737.3	2717.4	2720.7	2657.8	2455.6	2409.2	2333.0	2299.9	2276.7
52.5°	9736.3	4550.0	2568.3	2574.9	2584.8	2482.1	2313.1	2280.0	2217.0	2170.6	2157.4
55°	9103.3	3966.7	2402.6	2429.1	2455.6	2260.1	2207.1	2124.2	2074.5	2008.2	2011.5
57.5°	8019.7	3194.6	2170.6	2213.7	2270.0	2054.6	2014.9	1912.1	1839.2	1786.2	1779.6
60°	5375.2	2273.3	1822.6	1839.2	1965.1	1879.0	1875.7	1772.9	1673.5	1627.1	1600.6
62.5°	3171.4	1736.5	1574.1	1557.5	1554.2	1603.9	1686.8	1650.3	1521.1	1431.6	1458.1
65°	1660.3	1501.2	1464.7	1408.4	1375.3	1362.0	1425.0	1441.5	1355.4	1259.3	1252.7
67.5°	1395.2	1395.2	1365.3	1345.4	1299.1	1242.7	1202.9	1149.9	1136.7	1110.2	1077.0
70°	1269.2	1302.4	1292.4	1246.0	1206.3	1143.3	1040.6	954.4	871.6	841.7	861.6
72.5°	1106.8	1140.0	1140.0	1116.8	1063.8	967.7	868.2	768.8	699.2	646.2	639.6
75°	851.7	868.2	908.0	881.5	811.9	752.3	649.5	546.8	480.5	430.8	420.9
77.5°	543.5	570.0	570.0	566.7	517.0	460.6	394.4	321.4	271.7	235.3	225.3
80°	361.2	377.8	391.0	377.8	344.6	301.6	251.9	202.1	165.7	135.9	129.2
82.5°	265.1	285.0	294.9	281.7	248.5	215.4	179.0	142.5	106.0	82.8	76.2
85°	102.7	106.0	119.3	142.5	139.2	135.9	109.4	79.5	59.7	43.1	39.8
87.5°	26.5	23.2	26.5	26.5	23.2	19.9	19.9	19.9	19.9	9.9	13.3
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)