

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: P321126

Luminaire Tested: **GAN-SA2C-830-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11798 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 113
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

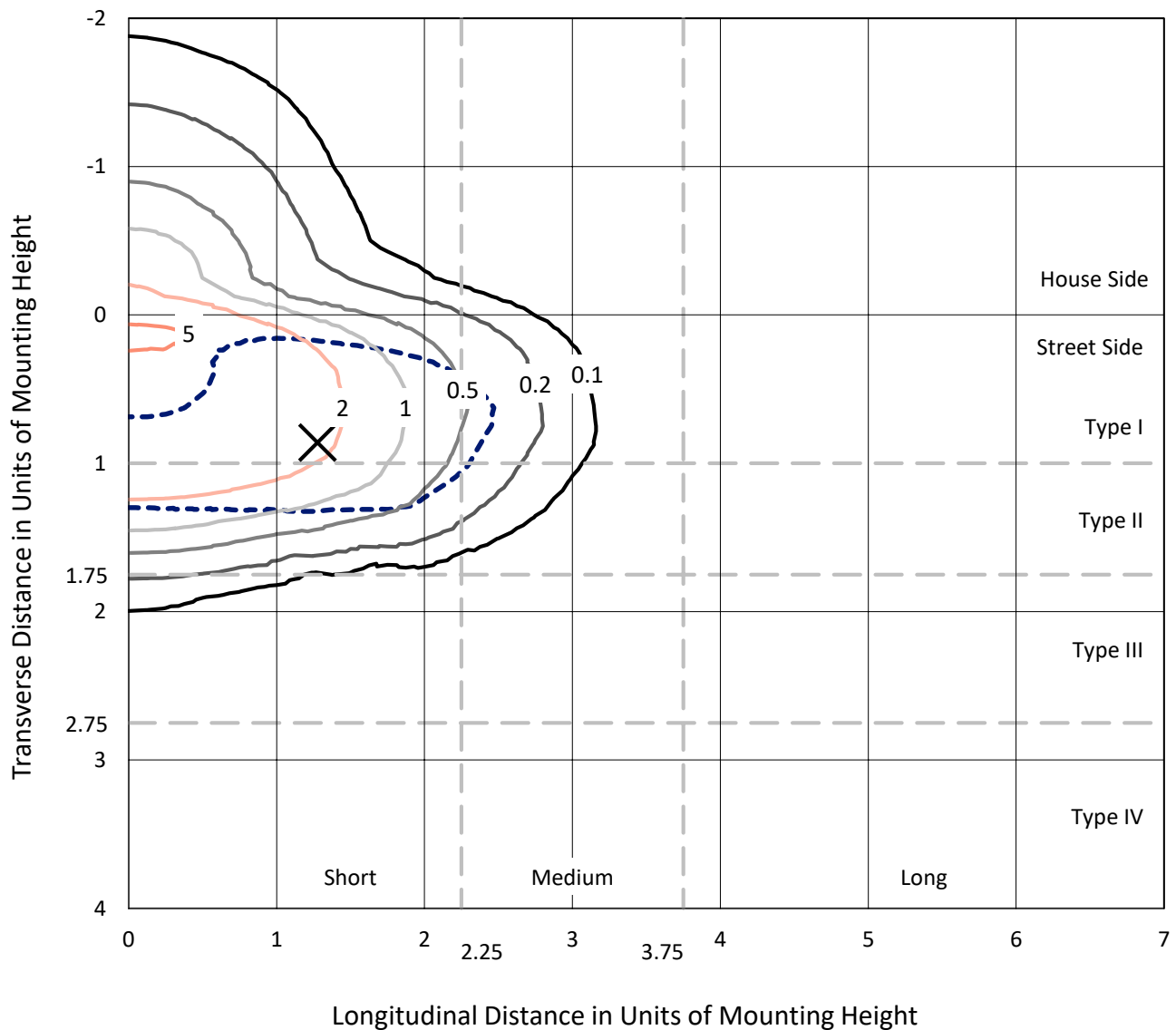


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Iso-Footcandle Lines of Horizontal Illumination

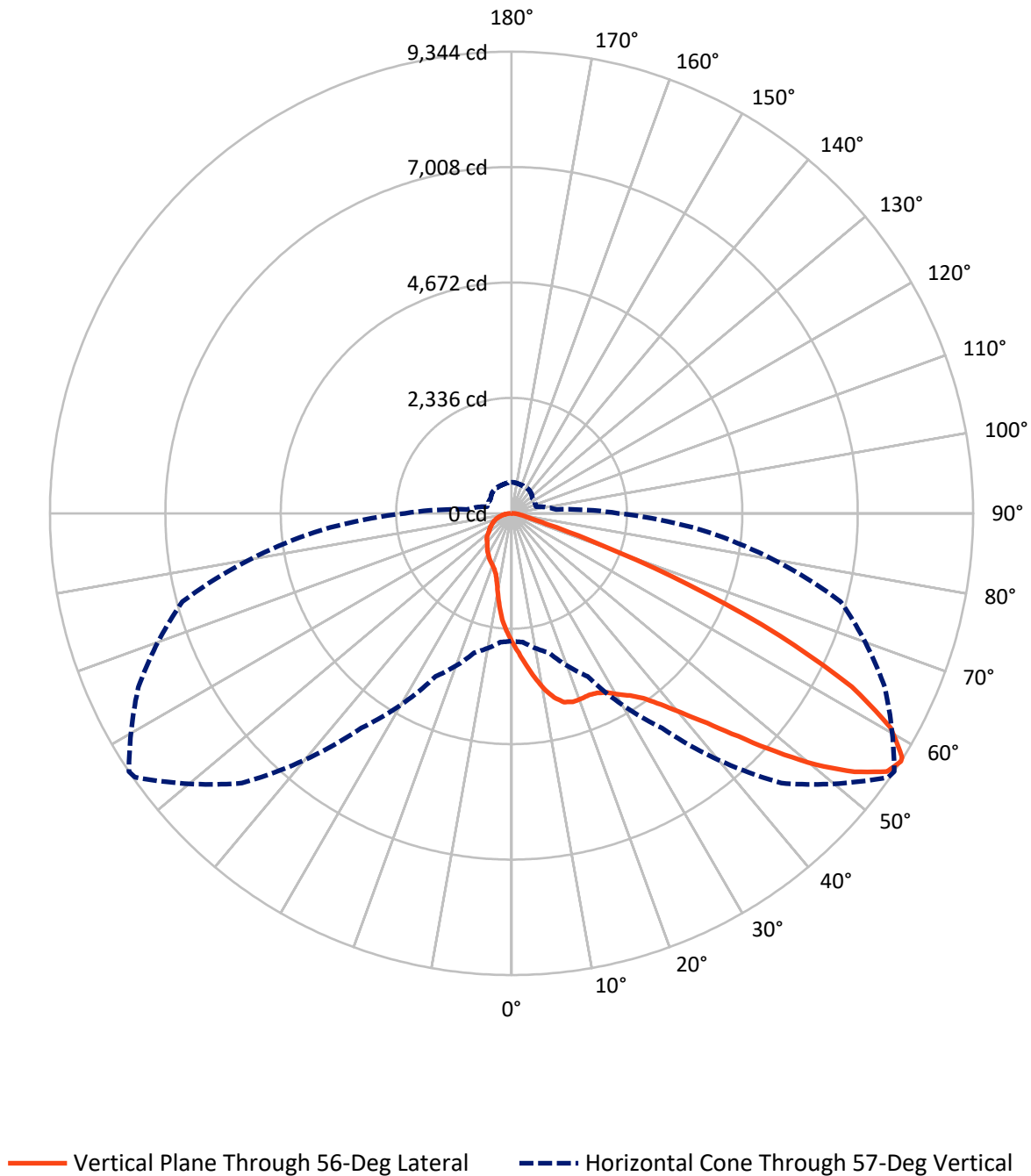
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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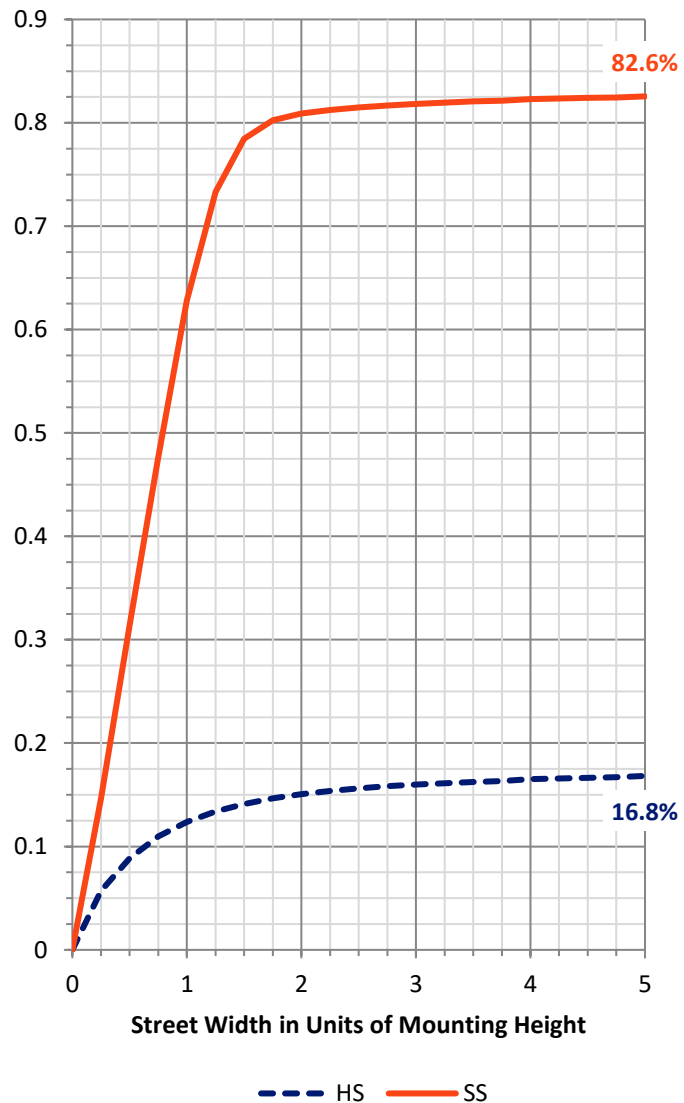
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2033.7	0.0	2033.7
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	9764.3	0.0	9764.3
	% Fixture	82.8	0.0	82.8
Total	Lumens	11798.0	0.0	11798.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.0	2.1
10°-20°	706.7	6.0
20°-30°	1151.1	9.8
30°-40°	1720.8	14.6
40°-50°	2610.1	22.1
50°-60°	2925.4	24.8
60°-70°	1727.9	14.6
70°-80°	566.1	4.8
80°-90°	139.9	1.2
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°	11798.0	100.0
0°-180°	11798.0	100.0

Coefficient of Utilization



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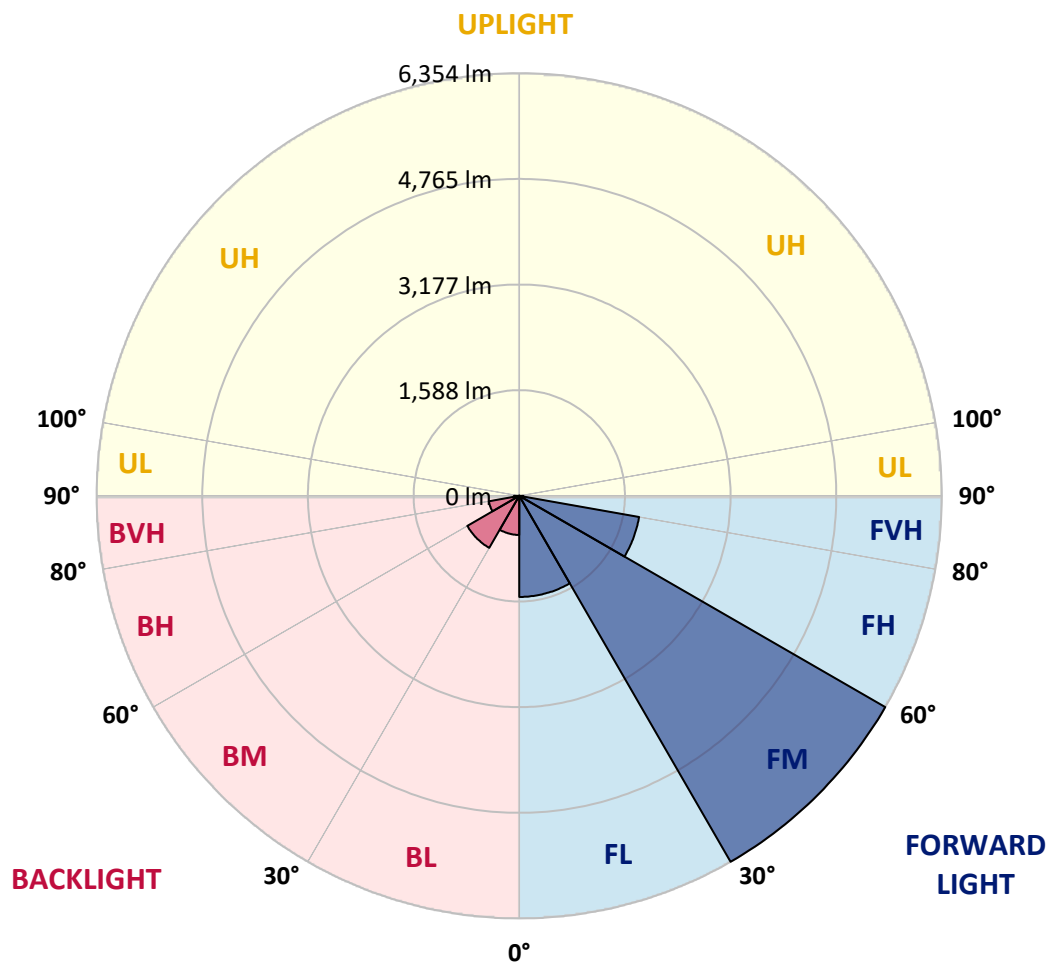
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1519.8	12.9			
FM	(30°-60°)	6353.6	53.9			
FH	(60°-80°)	1829.3	15.5			G2/5000
FVH	(80°-90°)	61.6	0.5			G1/100
BL	(0°-30°)	588.1	5.0	B2/1000		
BM	(30°-60°)	902.7	7.7	B1/1000		
BH	(60°-80°)	464.7	3.9	B1/500		G1/500
BVH	(80°-90°)	78.3	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2616.8	2616.8	2616.8	2616.8	2616.8	2616.8	2616.8	2616.8	2616.8	2616.8	2616.8
2.5°	3004.8	3032.4	3020.2	2978.1	2945.6	2899.8	2848.7	2833.3	2779.4	2719.0	2646.4
5°	3480.4	3466.6	3446.8	3381.1	3311.8	3231.1	3102.9	3082.7	2962.7	2826.0	2681.7
7.5°	3751.3	3750.1	3738.3	3699.8	3636.5	3531.1	3376.6	3352.7	3171.5	2951.7	2727.9
10°	3711.9	3709.1	3728.6	3768.7	3787.8	3765.9	3635.7	3611.8	3389.2	3090.8	2781.4
12.5°	3488.5	3490.2	3521.4	3605.7	3720.5	3858.3	3837.2	3825.5	3615.0	3248.1	2846.3
15°	3314.6	3318.2	3343.0	3416.4	3551.8	3802.0	3959.7	3963.7	3833.6	3421.6	2922.1
17.5°	3238.4	3246.1	3257.4	3308.9	3433.0	3689.6	3988.9	4010.8	4025.0	3601.7	2995.1
20°	3262.7	3270.0	3273.2	3306.1	3407.9	3621.5	3968.6	4007.9	4171.7	3771.1	3068.1
22.5°	3371.8	3376.2	3378.3	3386.8	3465.8	3641.0	3955.2	3996.6	4278.0	3923.2	3123.2
25°	3552.6	3549.4	3536.4	3525.4	3578.5	3718.0	3986.0	4025.4	4364.3	4061.0	3159.3
27.5°	3769.1	3765.1	3739.9	3709.9	3740.3	3838.0	4074.8	4106.0	4441.8	4190.0	3177.6
30°	4029.0	4018.5	3971.0	3935.3	3947.1	4018.1	4221.2	4249.6	4561.4	4336.3	3195.4
32.5°	4329.4	4318.1	4249.6	4190.4	4190.4	4249.6	4372.0	4395.5	4662.7	4501.8	3224.2
35°	4705.7	4691.5	4602.3	4503.0	4475.0	4505.0	4577.6	4594.2	4845.2	4710.2	3276.5
37.5°	5149.3	5130.2	5014.7	4881.7	4820.5	4818.8	4871.1	4905.2	5136.7	4983.9	3365.3
40°	5594.1	5580.7	5479.7	5375.1	5255.1	5216.6	5297.3	5307.8	5517.8	5323.6	3478.8
42.5°	5937.9	5935.5	5916.8	5930.6	5807.7	5729.9	5793.1	5801.7	5983.3	5691.4	3599.6
45°	6119.5	6123.6	6214.0	6414.3	6459.7	6402.9	6434.2	6436.6	6515.3	6062.4	3710.3
47.5°	5974.0	5995.1	6223.7	6671.8	7043.6	7232.1	7180.2	7210.2	7031.0	6381.1	3797.1
50°	5406.7	5432.7	5821.9	6557.0	7316.0	8034.5	8007.3	8000.4	7447.0	6614.6	3844.1
52.5°	4704.1	4724.4	5045.5	5960.6	7116.1	8478.1	8727.4	8691.7	7816.8	6789.3	3853.0
55°	3634.1	3665.7	3973.5	4770.2	6307.7	8308.6	9256.9	9224.9	8153.7	6881.0	3842.5
57°	2583.6	2616.8	2922.5	3640.6	5306.2	7721.9	9309.7	9343.7	8335.8	6896.4	3854.3
57.5°	2305.4	2339.5	2642.4	3339.7	4994.0	7509.8	9264.2	9321.0	8368.6	6894.0	3860.7
60°	1160.8	1173.8	1366.8	1864.3	3156.9	6071.3	8671.9	8818.2	8398.2	6774.7	3888.7
62.5°	721.7	712.4	706.3	858.8	1535.9	4026.2	7449.4	7731.2	7831.8	6486.1	3821.0
65°	634.5	617.1	550.2	538.0	678.3	1955.5	5609.9	5960.6	6621.5	6031.1	3659.6
67.5°	596.0	579.0	503.6	458.2	458.6	775.2	3482.9	3877.8	5158.2	5262.0	3278.9
70°	556.3	540.9	470.3	416.8	390.5	429.4	1602.4	1902.0	3362.4	4136.0	2740.5
72.5°	505.2	494.7	427.8	372.6	344.6	321.5	613.5	724.5	1946.6	2777.8	1903.2
75°	451.7	441.9	384.8	332.1	298.0	253.0	345.4	372.2	988.9	1421.1	937.0
77.5°	392.9	387.2	342.2	293.5	266.4	209.6	244.5	257.5	424.1	609.4	469.9
80°	312.6	323.6	299.2	261.5	236.4	167.9	173.1	181.6	246.9	297.6	266.8
82.5°	203.5	222.6	234.4	212.5	194.6	132.2	124.5	128.1	161.0	181.6	116.0
85°	84.7	95.3	154.1	139.1	129.3	96.5	83.5	85.1	99.7	103.4	47.4
87.5°	37.7	40.1	67.7	63.7	54.7	33.2	35.7	38.9	53.1	50.3	18.2
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°	2616.8	2616.8	2616.8	2616.8	2616.8	2616.8	2616.8	2616.8	2616.8	2616.8	2616.8
2.5°	2619.2	2585.2	2526.8	2462.3	2409.6	2367.5	2324.9	2295.7	2261.6	2243.4	2234.1
5°	2621.3	2554.4	2431.5	2305.4	2192.7	2089.7	1991.6	1916.2	1845.6	1807.5	1797.0
7.5°	2629.8	2529.2	2330.6	2123.0	1922.7	1739.8	1598.7	1510.3	1446.7	1418.3	1410.2
10°	2636.7	2499.6	2205.7	1898.3	1625.9	1440.6	1331.1	1281.6	1259.7	1256.1	1252.5
12.5°	2652.9	2469.2	2074.3	1664.0	1395.2	1267.0	1228.9	1225.7	1231.8	1240.7	1240.7
15°	2678.4	2439.2	1924.3	1462.9	1248.4	1203.4	1211.1	1228.9	1245.6	1259.3	1261.4
17.5°	2697.1	2402.3	1762.9	1301.9	1170.1	1182.3	1209.9	1235.0	1252.0	1265.4	1266.6
20°	2710.5	2345.2	1590.6	1179.1	1125.1	1162.8	1197.3	1219.6	1231.4	1244.7	1246.8
22.5°	2703.6	2268.5	1437.7	1091.1	1088.6	1134.5	1167.3	1194.1	1185.1	1172.2	1180.7
25°	2670.3	2163.1	1280.4	1025.4	1050.1	1096.4	1136.9	1119.1	1089.1	1083.4	1086.6
27.5°	2611.1	2028.5	1134.9	964.6	1005.5	1061.1	1058.6	1040.8	1030.3	1023.0	1027.4
30°	2547.5	1882.5	1007.6	911.5	956.1	1001.9	992.6	992.1	981.6	969.8	975.5
32.5°	2484.6	1735.8	906.6	867.7	918.8	924.8	945.1	951.2	930.5	905.8	904.2
35°	2429.9	1597.1	830.0	827.9	873.8	874.6	904.2	895.7	844.2	818.6	818.6
37.5°	2388.9	1458.8	771.6	792.3	814.6	835.6	850.6	815.4	806.9	792.7	792.3
40°	2371.1	1337.2	735.1	765.1	772.8	799.6	761.0	774.8	778.9	771.6	771.6
42.5°	2352.5	1231.4	703.5	744.4	743.2	739.6	720.1	737.9	754.1	754.6	753.3
45°	2333.8	1140.1	675.5	700.2	717.3	677.9	681.6	700.6	723.3	731.4	731.4
47.5°	2313.1	1068.0	649.9	653.6	679.9	653.6	650.8	665.4	692.1	705.1	707.9
50°	2267.7	1003.1	620.8	612.6	619.9	628.9	631.3	638.2	667.8	688.5	693.3
52.5°	2204.9	945.1	583.4	574.9	574.9	608.6	619.9	622.0	647.1	671.8	676.7
55°	2152.6	908.2	544.9	543.3	541.7	587.1	606.6	609.8	627.2	646.7	649.1
57°	2156.2	905.4	515.3	517.0	516.5	565.2	594.0	600.9	609.8	626.4	629.3
57.5°	2158.2	907.4	508.8	509.7	509.3	559.1	590.3	598.0	604.9	622.4	625.2
60°	2188.6	912.7	482.5	473.6	475.6	526.7	569.7	579.4	583.9	607.0	610.6
62.5°	2143.6	889.2	461.4	439.9	439.9	492.6	540.9	556.3	563.2	594.4	600.5
65°	2013.1	823.1	436.7	401.8	405.9	458.6	506.4	531.6	542.1	581.0	587.5
67.5°	1811.6	746.4	410.3	367.7	371.8	422.9	470.7	497.9	514.5	566.4	571.7
70°	1549.2	652.8	374.6	331.7	336.5	384.0	428.6	459.4	484.1	552.6	554.3
72.5°	1142.2	535.2	324.8	291.9	297.2	338.6	386.0	421.7	454.9	518.2	517.4
75°	679.1	418.4	269.6	251.8	255.4	294.0	347.5	390.9	440.7	504.8	512.5
77.5°	411.9	315.0	219.8	210.8	215.3	254.6	319.9	366.1	434.6	476.0	473.6
80°	248.9	225.0	175.6	169.9	174.3	217.7	296.0	347.5	379.9	406.7	406.7
82.5°	130.2	137.4	128.9	124.5	130.6	176.8	269.2	303.3	335.7	288.3	269.2
85°	53.1	71.8	78.3	77.8	81.5	122.4	232.3	259.5	216.5	205.6	210.4
87.5°	17.8	30.4	38.1	32.8	34.5	77.0	161.0	125.3	148.8	103.8	98.5
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)