

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: P323042

Luminaire Tested: **GAN-SA8B-830-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26378 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

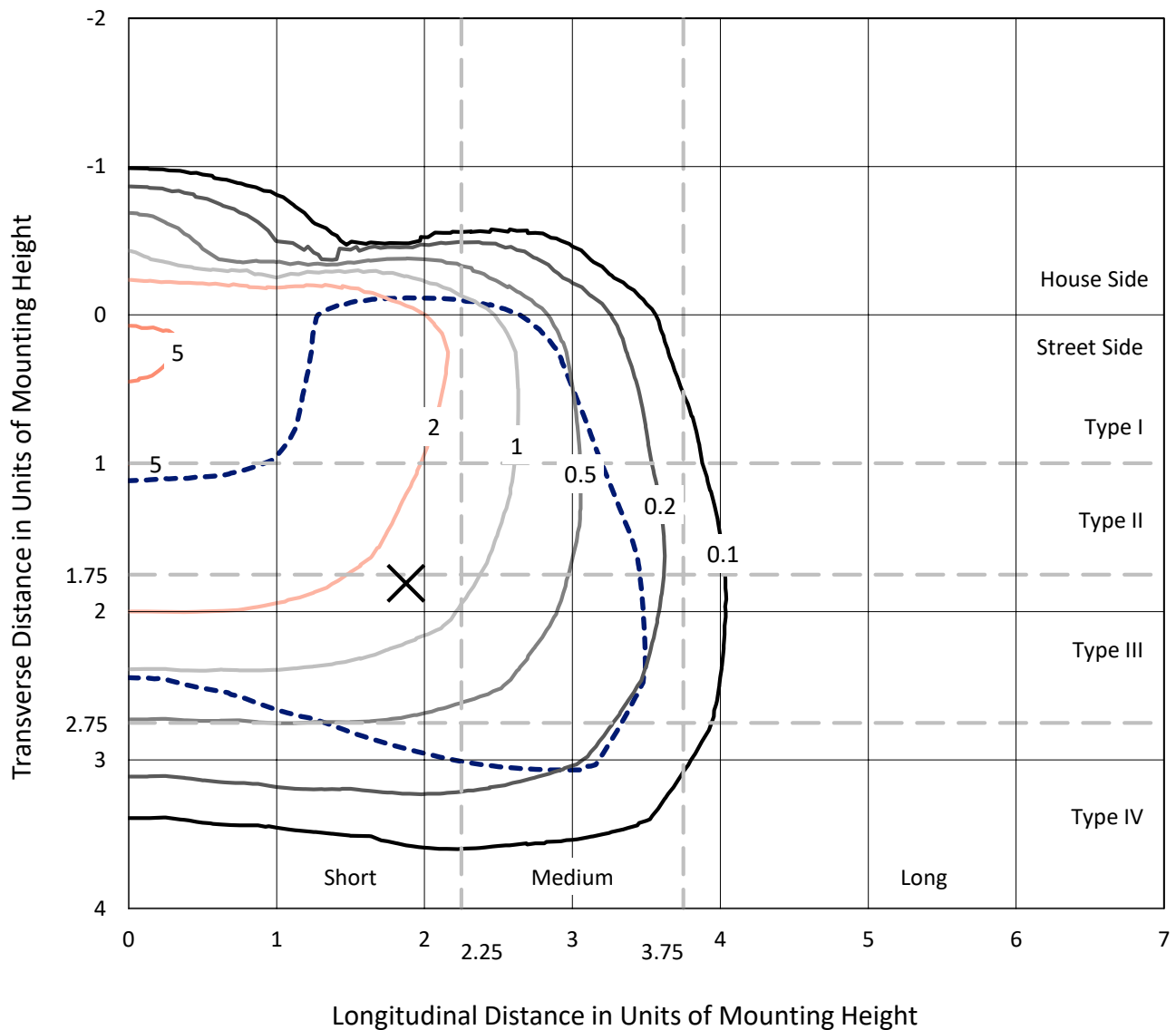
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

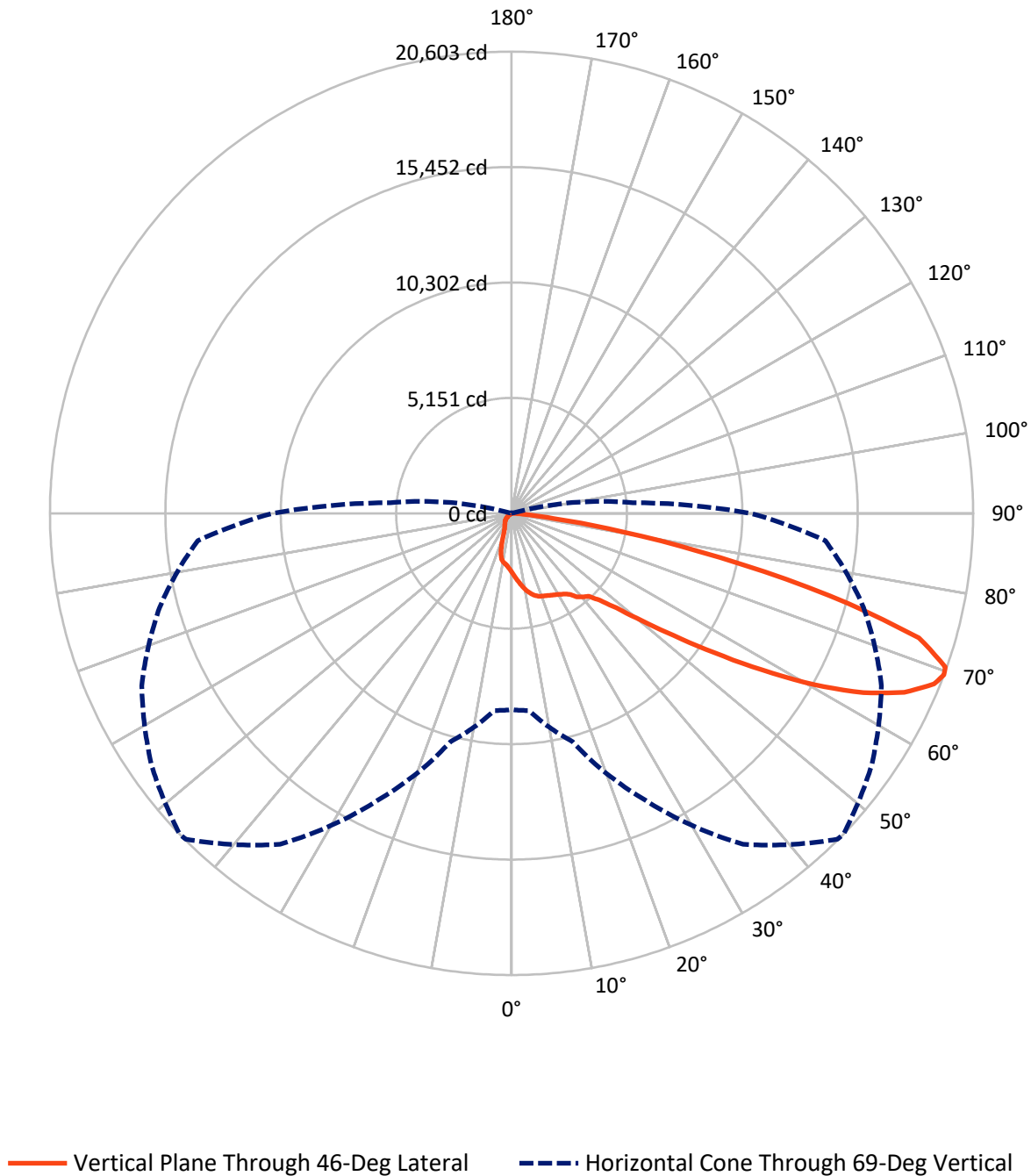
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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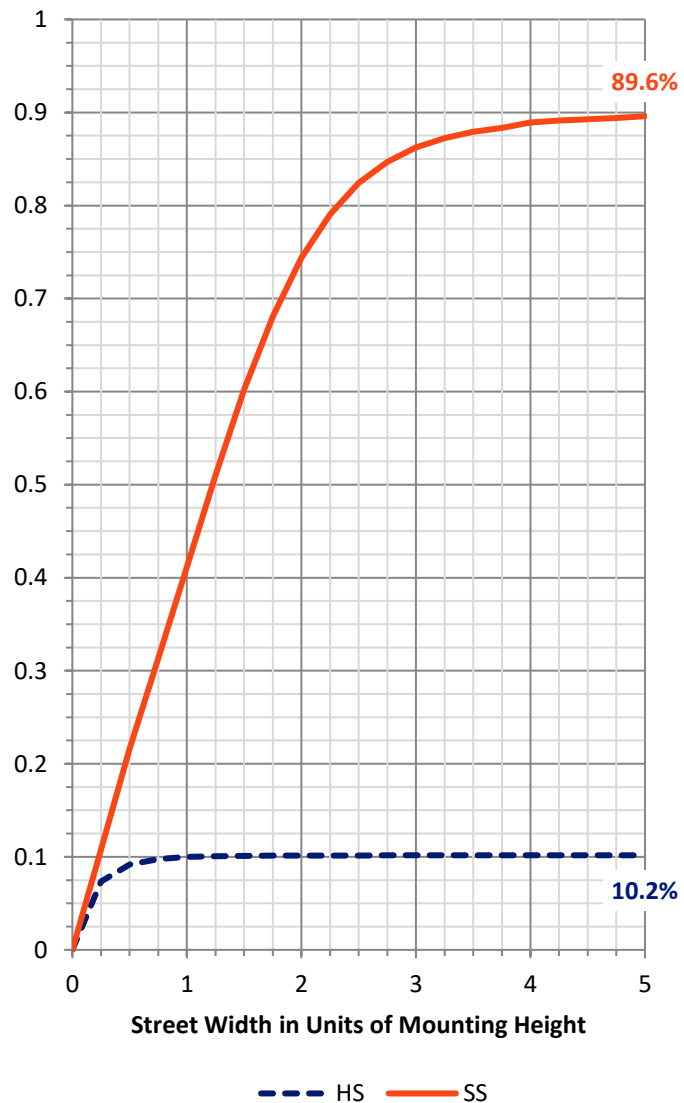
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2707.1	0.0	2707.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	23670.9	0.0	23670.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	26378.0	0.0	26378.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.1	1.0
10°-20°	798.1	3.0
20°-30°	1255.1	4.8
30°-40°	1799.9	6.8
40°-50°	3110.8	11.8
50°-60°	6145.7	23.3
60°-70°	8589.2	32.6
70°-80°	4149.5	15.7
80°-90°	266.7	1.0
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°	26378.0	100.0
0°-180°	26378.0	100.0

Coefficient of Utilization



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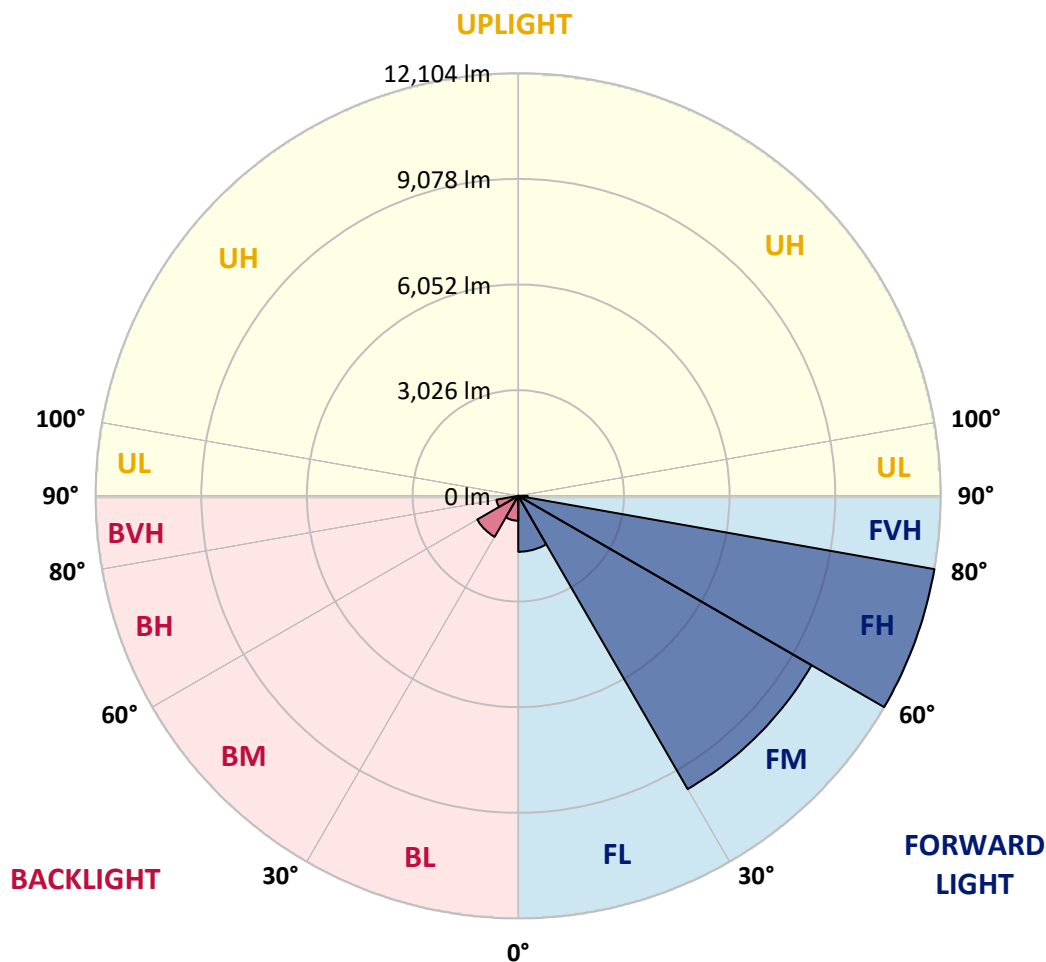
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1602.8	6.1			
FM	(30°-60°)	9699.8	36.8			
FH	(60°-80°)	12103.9	45.9			G5
FVH	(80°-90°)	264.5	1.0			G3/500
BL	(0°-30°)	713.5	2.7	B2/1000		
BM	(30°-60°)	1356.6	5.1	B2/2500		
BH	(60°-80°)	634.8	2.4	B2/1000		G2/1000
BVH	(80°-90°)	2.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2643.0	2643.0	2643.0	2643.0	2643.0	2643.0	2643.0	2643.0	2643.0	2643.0	2643.0
2.5°	2936.1	2932.4	2915.1	2907.6	2865.6	2840.9	2831.0	2800.0	2755.5	2711.0	2661.5
5°	3270.0	3268.8	3236.6	3205.7	3126.6	3052.3	3038.7	2967.0	2866.8	2772.8	2678.8
7.5°	3611.4	3595.3	3563.1	3503.8	3388.7	3270.0	3258.9	3157.5	3015.2	2879.2	2744.4
10°	3900.8	3890.9	3848.8	3758.5	3623.7	3488.9	3475.3	3350.4	3189.6	3022.7	2850.8
12.5°	4125.9	4118.4	4062.8	3950.2	3806.8	3667.0	3648.5	3537.2	3365.3	3178.5	2975.7
15°	4263.1	4259.4	4191.4	4071.4	3930.5	3809.3	3793.2	3695.5	3535.9	3340.5	3111.7
17.5°	4295.3	4296.5	4226.0	4104.8	3988.6	3902.0	3889.6	3815.4	3681.9	3487.7	3247.8
20°	4223.6	4238.4	4175.3	4070.2	3998.5	3952.7	3942.8	3898.3	3785.8	3602.7	3356.6
22.5°	4122.2	4129.6	4086.3	4015.8	3986.1	3994.8	3989.8	3965.1	3869.9	3701.7	3464.2
25°	4060.3	4060.3	4034.3	3975.0	3994.8	4047.9	4049.2	4044.2	3968.8	3822.9	3595.3
27.5°	4057.8	4050.4	4020.7	3976.2	4030.6	4112.3	4117.2	4150.6	4103.6	3970.0	3758.5
30°	4156.8	4148.1	4085.1	4026.9	4096.2	4184.0	4196.4	4269.3	4245.8	4129.6	3940.3
32.5°	4388.1	4357.1	4217.4	4122.2	4174.1	4279.2	4295.3	4411.6	4448.7	4326.2	4116.0
35°	4704.7	4607.0	4405.4	4302.7	4307.7	4417.7	4432.6	4603.3	4713.3	4506.8	4252.0
37.5°	5141.3	5093.0	4765.3	4490.7	4513.0	4679.9	4723.2	4908.7	4877.8	4605.7	4406.6
40°	6098.5	6023.1	5674.3	5017.6	4709.6	4892.7	4906.3	5005.2	5007.7	4829.6	4728.2
42.5°	7402.1	7371.1	7003.8	5973.6	5096.7	5034.9	5059.6	5226.6	5413.3	5302.0	5297.1
45°	8845.4	8829.3	8439.7	7242.5	5879.6	5501.2	5532.1	5755.9	6113.4	6138.1	6295.2
47.5°	10006.7	9999.3	9775.4	8658.6	7078.0	6291.4	6301.3	6538.8	7167.1	7477.5	7728.6
50°	11065.4	11101.2	10924.4	10191.0	8710.6	7529.5	7506.0	7664.3	8673.5	9181.8	9493.4
52.5°	12537.1	12587.8	12091.9	11620.7	10423.5	9065.5	9047.0	9212.7	10484.1	10865.0	10920.7
55°	13837.0	13750.4	13358.4	13222.3	12512.4	10962.7	10957.8	11103.7	12235.4	12397.4	12500.0
57.5°	14410.8	14377.4	14566.7	14878.3	14700.2	13205.0	13193.9	13082.6	13802.4	13819.7	14135.0
60°	14773.2	14814.0	15394.1	16355.0	16799.0	15617.9	15546.2	14867.2	15298.8	15260.5	15598.1
62.5°	14501.1	14581.5	15625.3	17227.0	18369.7	17724.1	17622.7	16502.2	16577.7	16445.3	16759.5
65°	13056.6	13181.5	14891.9	17062.5	19148.9	19370.3	19267.6	17945.5	17593.1	17375.4	17201.0
67.5°	10601.6	10675.8	12461.7	15631.5	18797.7	20352.3	20331.3	19210.7	18359.8	17218.3	15865.3
69°	8761.3	8834.2	10553.4	14125.1	18024.7	20562.5	20603.3	19616.4	18213.9	16263.5	14057.1
70°	7420.6	7498.5	9100.2	12834.0	17128.0	20464.8	20537.8	19578.1	17795.9	15157.9	12470.3
72.5°	3892.1	3958.9	5602.6	8841.7	13963.1	18791.5	19012.9	17923.3	15084.9	11008.5	7373.6
75°	1223.2	1261.5	2187.8	4621.8	9560.2	14611.2	14661.9	14059.6	10711.7	6055.2	3070.9
77.5°	466.3	455.1	728.5	1703.0	4833.3	9200.3	9510.8	8786.0	5621.1	2140.8	708.7
80°	251.1	252.3	378.5	705.0	2067.9	4728.2	4990.4	4258.2	1997.4	667.9	163.3
82.5°	108.8	113.8	212.7	373.5	949.8	1743.8	1874.9	1560.8	763.1	448.9	60.6
85°	23.5	26.0	102.7	202.8	387.1	489.8	513.3	505.8	486.1	348.8	23.5
87.5°	0.0	0.0	45.8	73.0	97.7	111.3	97.7	127.4	268.4	235.0	12.4
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°	2643.0	2643.0	2643.0	2643.0	2643.0	2643.0	2643.0	2643.0	2643.0	2643.0	2643.0
2.5°	2645.5	2623.2	2584.8	2542.8	2513.1	2482.2	2457.5	2446.3	2434.0	2425.3	2436.4
5°	2640.5	2597.2	2523.0	2451.3	2399.3	2357.3	2322.7	2309.0	2295.4	2285.6	2284.3
7.5°	2683.8	2623.2	2509.4	2404.3	2323.9	2267.0	2220.0	2200.2	2184.1	2176.7	2170.5
10°	2766.7	2688.7	2536.6	2399.3	2295.4	2199.0	2097.6	2019.6	1968.9	1945.4	1936.8
12.5°	2874.3	2776.5	2588.6	2425.3	2274.4	2088.9	1873.7	1688.2	1568.2	1528.6	1505.1
15°	3000.4	2879.2	2656.6	2458.7	2197.7	1858.9	1494.0	1251.6	1140.3	1118.0	1093.3
17.5°	3121.6	2988.0	2738.2	2464.9	2029.5	1485.4	1094.5	930.1	886.8	901.6	905.3
20°	3228.0	3095.6	2818.6	2410.5	1724.1	1114.3	847.2	806.4	822.5	850.9	855.8
22.5°	3335.6	3199.5	2892.8	2267.0	1333.2	846.0	763.1	773.0	789.1	817.5	822.5
25°	3466.7	3325.7	2962.1	2003.6	1000.5	719.8	724.7	739.6	755.7	781.6	784.1
27.5°	3617.6	3485.2	3007.8	1661.0	742.1	661.7	677.7	700.0	716.1	740.8	745.8
30°	3817.9	3695.5	3022.7	1306.0	622.1	609.7	617.1	644.4	667.9	690.1	693.8
32.5°	4005.9	3903.2	2973.2	985.7	576.3	561.5	561.5	577.6	604.8	625.8	630.8
35°	4179.0	4112.3	2814.9	721.0	541.7	517.0	504.6	504.6	521.9	539.2	544.2
37.5°	4407.8	4405.4	2558.9	575.1	508.3	479.9	453.9	434.1	427.9	431.6	434.1
40°	4799.9	4803.6	2224.9	515.7	479.9	441.5	402.0	366.1	332.7	321.6	320.3
42.5°	5412.1	5356.4	1874.9	487.3	455.1	402.0	342.6	294.4	242.4	226.3	225.1
45°	6384.2	6054.0	1503.9	461.3	429.2	357.4	283.2	217.7	175.6	163.3	163.3
47.5°	7800.3	6970.4	1165.0	432.9	394.5	306.7	214.0	157.1	128.6	122.4	123.7
50°	9264.6	7868.3	892.9	397.0	352.5	253.5	158.3	113.8	97.7	97.7	98.9
52.5°	10563.3	8526.3	696.3	358.7	300.5	199.1	120.0	89.0	81.6	80.4	81.6
55°	11779.0	8950.5	533.0	314.1	238.7	148.4	91.5	73.0	68.0	65.5	64.3
57.5°	12951.5	9160.8	399.5	253.5	173.1	107.6	73.0	61.8	56.9	53.2	51.9
60°	13731.9	8990.1	274.6	186.8	120.0	77.9	60.6	53.2	47.0	43.3	42.1
62.5°	14172.1	8523.8	176.9	134.8	85.3	58.1	48.2	44.5	35.9	32.2	32.2
65°	13994.0	7754.5	123.7	96.5	61.8	43.3	35.9	35.9	26.0	21.0	19.8
67.5°	12401.1	6551.2	94.0	71.7	44.5	32.2	27.2	30.9	16.1	9.9	9.9
69°	10669.6	5429.4	80.4	59.4	37.1	26.0	23.5	28.4	11.1	7.4	6.2
70°	9273.3	4683.6	73.0	51.9	30.9	22.3	21.0	27.2	11.1	6.2	4.9
72.5°	5548.1	2612.1	55.7	37.1	19.8	17.3	17.3	30.9	11.1	6.2	4.9
75°	2242.3	920.2	40.8	26.0	14.8	14.8	21.0	39.6	9.9	4.9	3.7
77.5°	508.3	201.6	23.5	16.1	9.9	14.8	24.7	30.9	6.2	2.5	0.0
80°	123.7	49.5	14.8	9.9	6.2	11.1	18.6	17.3	1.2	0.0	0.0
82.5°	40.8	17.3	6.2	4.9	1.2	3.7	8.7	4.9	0.0	0.0	0.0
85°	17.3	9.9	2.5	1.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0
87.5°	11.1	3.7	0.0	0.0	0.0	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)