

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: P324960

Luminaire Tested: **GAN-SA6B-830-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6B-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22234 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

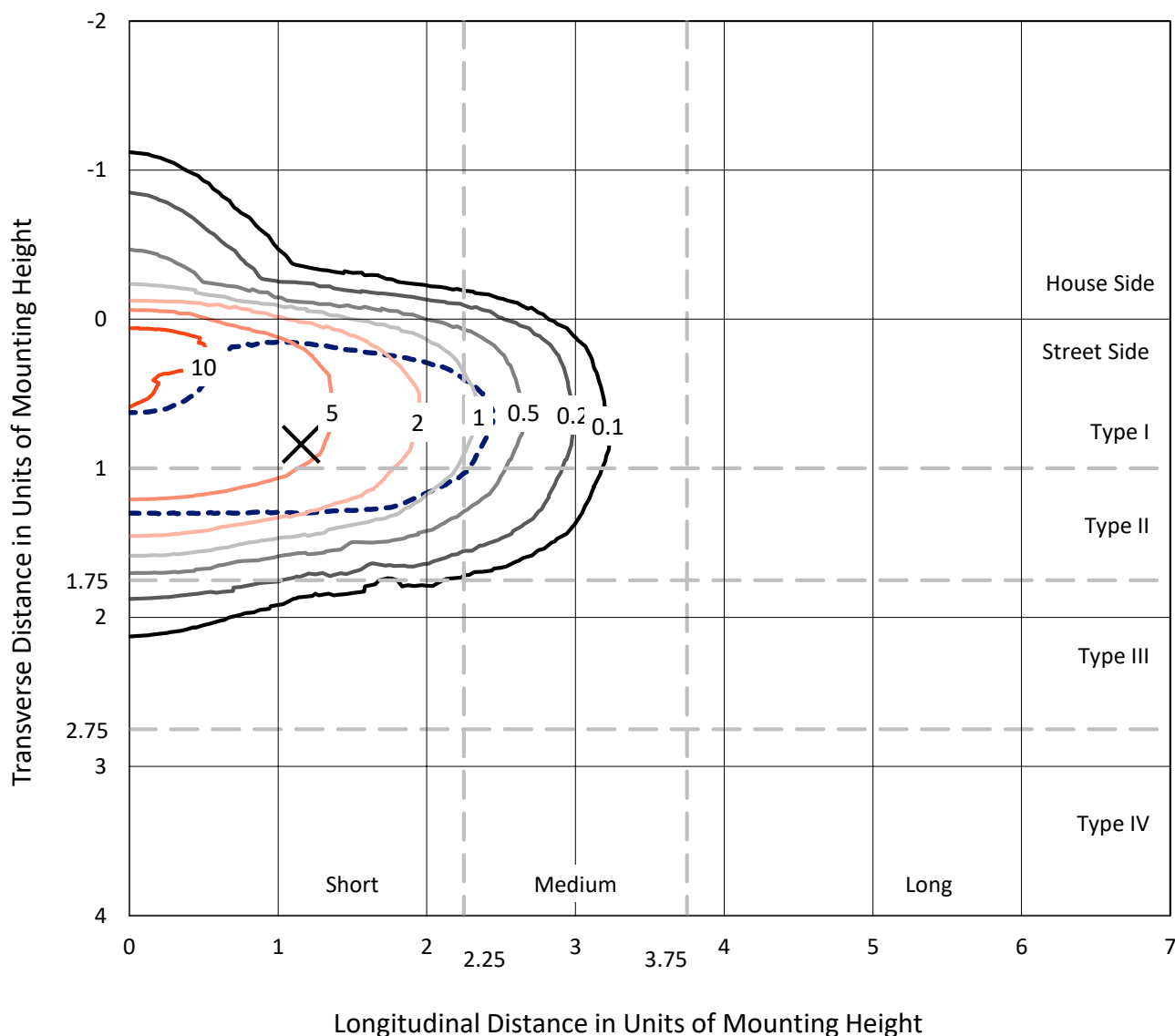
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

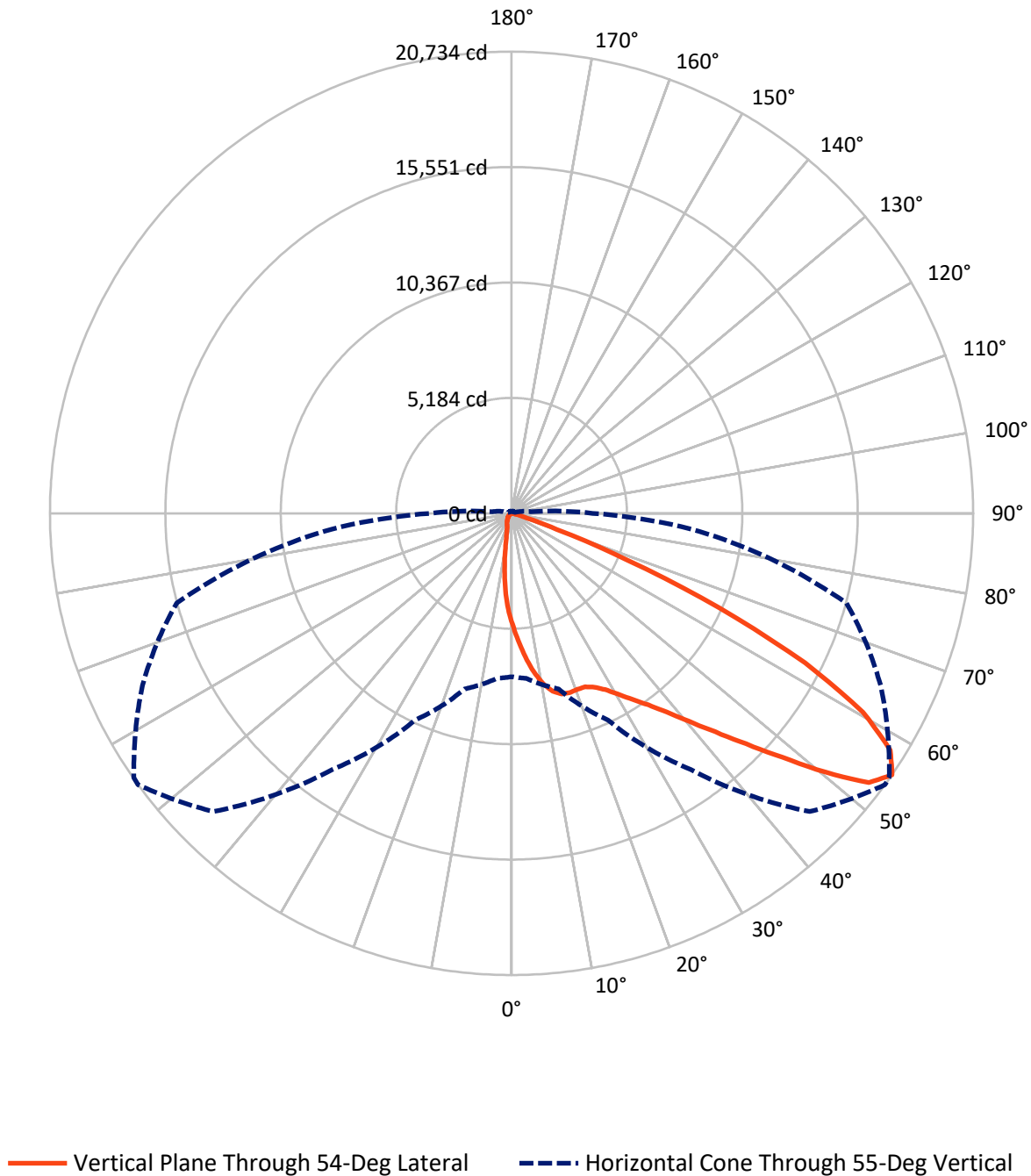
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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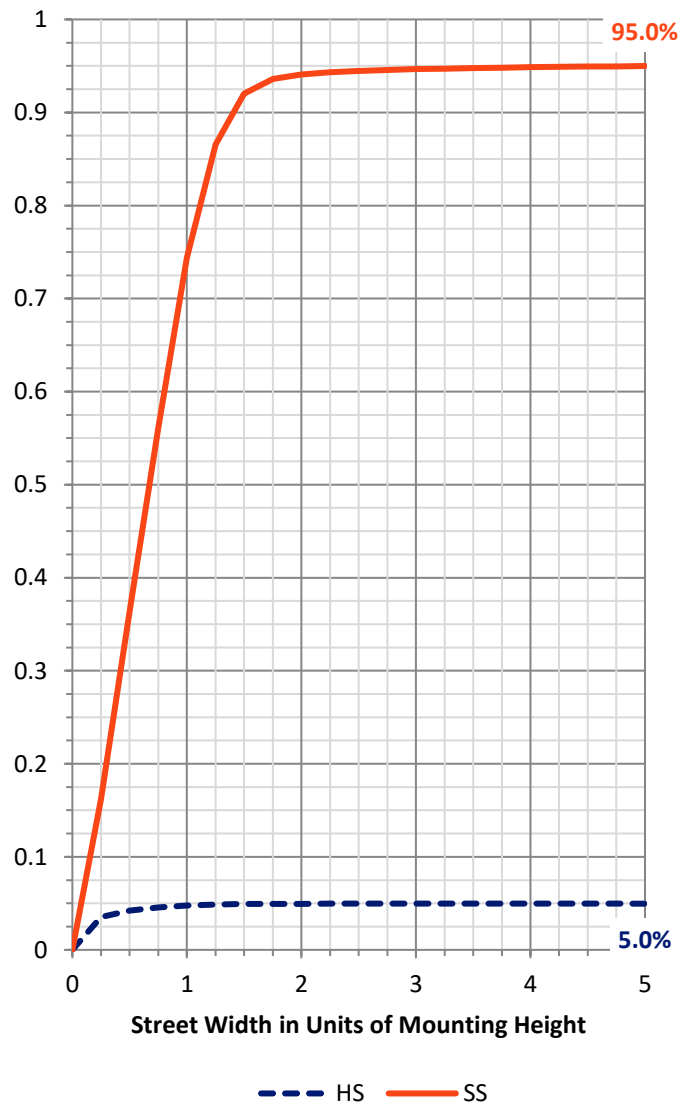
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1109.3	0.0	1109.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	21124.7	0.0	21124.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	22234.0	0.0	22234.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.6	2.1
10°-20°	1257.6	5.7
20°-30°	2147.2	9.7
30°-40°	3445.8	15.5
40°-50°	5506.4	24.8
50°-60°	5900.3	26.5
60°-70°	3029.4	13.6
70°-80°	458.9	2.1
80°-90°	29.9	0.1
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°	22234.0	100.0
0°-180°	22234.0	100.0

Coefficient of Utilization



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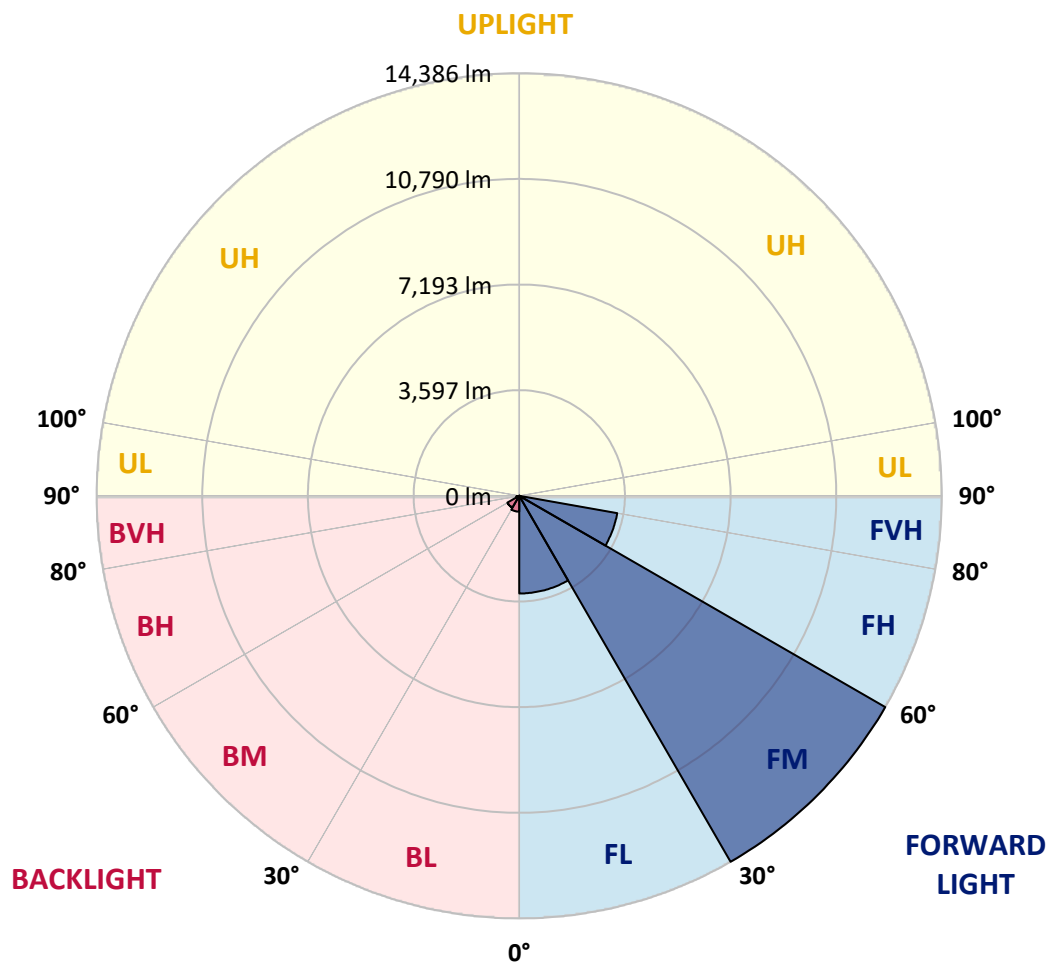
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3323.6	14.9			
FM	(30°-60°)	14386.4	64.7			
FH	(60°-80°)	3386.0	15.2			G2/5000
FVH	(80°-90°)	28.7	0.1			G1/100
BL	(0°-30°)	539.7	2.4	B2/1000		
BM	(30°-60°)	466.2	2.1	B1/1000		
BH	(60°-80°)	102.2	0.5	B0/110		G0/110
BVH	(80°-90°)	1.2	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4979.5	4979.5	4979.5	4979.5	4979.5	4979.5	4979.5	4979.5	4979.5	4979.5	4979.5
2.5°	6248.9	6155.8	6158.6	6116.4	5961.8	5840.8	5715.0	5685.3	5489.4	5283.9	5086.1
5°	7329.1	7260.9	7244.6	7163.0	6947.9	6720.3	6476.5	6419.8	6036.7	5616.1	5202.3
7.5°	7884.1	7885.0	7871.6	7841.8	7707.4	7486.6	7188.9	7129.4	6608.0	5977.2	5323.3
10°	7722.8	7759.3	7834.2	7933.1	8035.8	8007.9	7784.2	7730.5	7163.9	6359.3	5457.7
12.5°	7346.4	7351.2	7434.7	7597.0	7892.7	8196.1	8200.0	8181.7	7694.9	6758.7	5605.6
15°	7159.1	7177.4	7208.1	7312.8	7593.1	8079.0	8426.6	8452.5	8181.7	7183.2	5763.0
17.5°	7282.0	7308.0	7282.0	7294.5	7456.8	7893.7	8466.0	8532.2	8607.1	7602.8	5911.9
20°	7615.2	7639.2	7593.1	7542.3	7573.9	7839.9	8438.1	8527.4	8940.3	7975.3	6036.7
22.5°	8064.6	8074.2	8004.1	7920.6	7897.5	8022.4	8461.2	8553.3	9207.2	8312.3	6115.4
25°	8559.1	8567.7	8480.4	8384.3	8329.6	8380.5	8650.3	8719.4	9442.5	8634.0	6160.6
27.5°	9097.8	9105.4	8996.0	8877.9	8814.5	8816.4	8962.4	9036.3	9693.1	9000.8	6197.0
30°	9667.2	9663.3	9562.5	9398.3	9317.6	9315.7	9411.7	9486.6	10056.0	9471.3	6247.0
32.5°	10306.6	10299.0	10155.9	9952.3	9861.1	9874.6	9960.0	10003.2	10506.4	9972.5	6336.3
35°	11148.7	11126.6	10910.6	10658.1	10490.0	10485.2	10557.2	10591.8	11080.5	10579.3	6485.1
37.5°	12241.4	12221.2	11928.4	11561.6	11325.4	11237.1	11322.5	11366.7	11899.6	11358.0	6724.2
40°	13318.7	13298.6	13124.8	12788.7	12424.8	12212.6	12279.8	12326.9	12922.2	12302.9	7025.7
42.5°	14061.9	14079.2	14139.7	14167.5	13826.7	13381.1	13411.9	13460.8	13996.6	13313.0	7370.4
45°	14257.8	14295.2	14637.1	15308.2	15435.9	15088.4	14766.7	14793.6	15088.4	14323.1	7715.1
47.5°	13669.2	13738.3	14398.0	15646.2	16727.4	16973.2	16364.4	16328.9	16135.9	15140.2	7959.9
50°	12331.7	12395.0	13249.6	15096.0	17119.2	18772.6	18279.1	18174.4	17054.8	15628.9	8046.4
52.5°	10395.9	10472.7	11167.0	13363.9	16380.8	19575.3	20091.9	20004.5	17728.9	15667.4	8060.8
55°	7341.6	7434.7	8169.3	10242.3	14040.8	18936.8	20734.3	20708.3	18288.7	15565.6	8091.5
57.5°	4125.9	4193.1	4985.3	6565.8	10283.6	16494.1	20063.1	20235.0	18626.6	15388.9	8137.6
60°	1832.0	1850.3	2260.3	3268.5	6020.4	12605.3	18141.8	18431.7	18336.7	15152.7	8215.3
62.5°	1015.9	1000.5	1000.5	1358.7	2616.5	7803.4	14793.6	15272.7	17099.0	14873.3	8219.2
65°	796.0	781.6	740.3	746.1	996.7	3463.4	10244.2	11095.9	14748.5	14054.2	7942.7
67.5°	675.0	662.5	621.2	604.9	619.3	1142.6	5628.6	6512.9	11191.0	11925.5	6879.7
70°	570.4	561.7	540.6	520.4	483.9	564.6	2153.7	2754.8	6896.1	7933.1	4696.3
72.5°	459.0	455.1	462.8	445.5	401.4	376.4	736.5	892.0	3097.6	3540.2	1934.8
75°	395.6	393.7	397.5	380.2	330.3	262.1	374.5	409.0	873.8	866.1	391.8
77.5°	257.3	260.2	329.3	321.7	284.2	174.8	194.0	209.3	265.0	198.8	119.1
80°	164.2	162.3	167.1	266.9	255.4	133.5	97.0	101.8	127.7	97.9	57.6
82.5°	99.9	97.9	109.5	124.8	128.7	93.1	59.5	60.5	79.7	63.4	30.7
85°	8.6	11.5	66.3	61.5	44.2	28.8	28.8	30.7	42.2	37.4	17.3
87.5°	0.0	0.0	11.5	17.3	9.6	10.6	10.6	11.5	16.3	16.3	8.6
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°	4979.5	4979.5	4979.5	4979.5	4979.5	4979.5	4979.5	4979.5	4979.5	4979.5	4979.5
2.5°	4983.4	4883.5	4681.9	4487.9	4323.7	4165.3	3984.8	3806.2	3722.6	3689.0	3654.5
5°	4992.0	4786.5	4370.8	3952.1	3518.1	3127.3	2794.1	2452.3	2281.4	2206.5	2171.9
7.5°	5003.5	4690.5	4018.4	3315.5	2616.5	2086.5	1623.7	1326.0	1197.4	1177.2	1127.3
10°	5005.4	4574.3	3609.3	2612.7	1754.3	1257.8	967.9	814.2	757.6	748.0	731.7
12.5°	5009.3	4437.0	3155.2	1934.8	1169.5	841.1	700.0	649.1	633.7	632.8	632.8
15°	5020.8	4293.0	2683.7	1394.2	840.2	666.4	614.5	594.4	588.6	591.5	590.5
17.5°	5020.8	4123.0	2220.9	1038.9	678.9	599.2	570.4	556.9	555.0	557.9	558.8
20°	4984.3	3916.6	1796.5	808.5	602.0	555.9	530.0	517.5	512.7	514.7	515.6
22.5°	4896.9	3663.1	1450.8	669.2	551.1	516.6	488.7	469.5	461.8	462.8	462.8
25°	4760.6	3362.6	1134.9	579.0	509.9	474.3	441.7	419.6	414.8	413.8	415.8
27.5°	4585.8	3030.3	903.5	509.9	460.9	427.3	394.6	376.4	372.6	373.5	374.5
30°	4414.0	2685.6	712.5	451.3	406.2	374.5	349.5	340.9	340.9	343.7	344.7
32.5°	4256.5	2354.4	563.6	400.4	357.2	328.4	314.0	313.0	317.8	319.7	320.7
35°	4121.1	2048.1	466.7	361.0	318.8	293.8	289.0	292.9	298.6	302.5	303.4
37.5°	4025.1	1774.4	408.1	328.4	289.0	268.9	267.9	275.6	283.3	291.9	293.8
40°	3984.8	1543.0	367.8	299.6	265.0	249.6	246.8	257.3	271.7	284.2	286.1
42.5°	3951.2	1353.9	333.2	271.7	245.8	223.7	222.8	236.2	253.5	266.0	268.9
45°	3922.4	1202.2	301.5	242.0	220.8	192.0	194.9	212.2	225.6	239.1	242.0
47.5°	3862.8	1077.3	266.9	210.3	182.4	164.2	170.0	185.3	195.9	216.0	218.9
50°	3756.2	975.5	231.4	171.9	148.8	142.1	150.7	161.3	174.8	192.0	194.0
52.5°	3684.2	898.7	200.7	144.0	122.9	124.8	133.5	137.3	145.0	151.7	149.8
55°	3642.9	856.5	175.7	124.8	104.7	110.4	112.3	107.5	103.7	97.0	94.1
57.5°	3638.1	818.1	156.5	108.5	92.2	95.1	88.3	72.0	58.6	50.9	49.0
60°	3630.5	771.0	141.1	91.2	81.6	77.8	63.4	39.4	27.8	25.9	25.9
62.5°	3546.9	698.1	129.6	76.8	69.1	58.6	36.5	18.2	15.4	16.3	16.3
65°	3281.0	596.3	118.1	62.4	54.7	42.2	18.2	10.6	5.8	6.7	6.7
67.5°	2789.3	475.3	105.6	48.0	41.3	26.9	10.6	4.8	0.0	0.0	0.0
70°	1867.6	294.8	89.3	33.6	26.9	16.3	7.7	1.0	0.0	0.0	0.0
72.5°	716.3	159.4	72.0	20.2	17.3	11.5	4.8	0.0	0.0	0.0	0.0
75°	161.3	104.7	49.9	14.4	12.5	7.7	1.9	0.0	0.0	0.0	0.0
77.5°	61.5	75.9	28.8	9.6	8.6	4.8	0.0	0.0	0.0	0.0	0.0
80°	29.8	45.1	13.4	5.8	4.8	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	15.4	17.3	5.8	2.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.6	8.6	2.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	2.9	1.0	1.0	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)