

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: P192651

Luminaire Tested: **GAN-AF-03-LED-U-AFL-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-AFL-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA 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: 9479.3 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 96
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: 28.75 FT



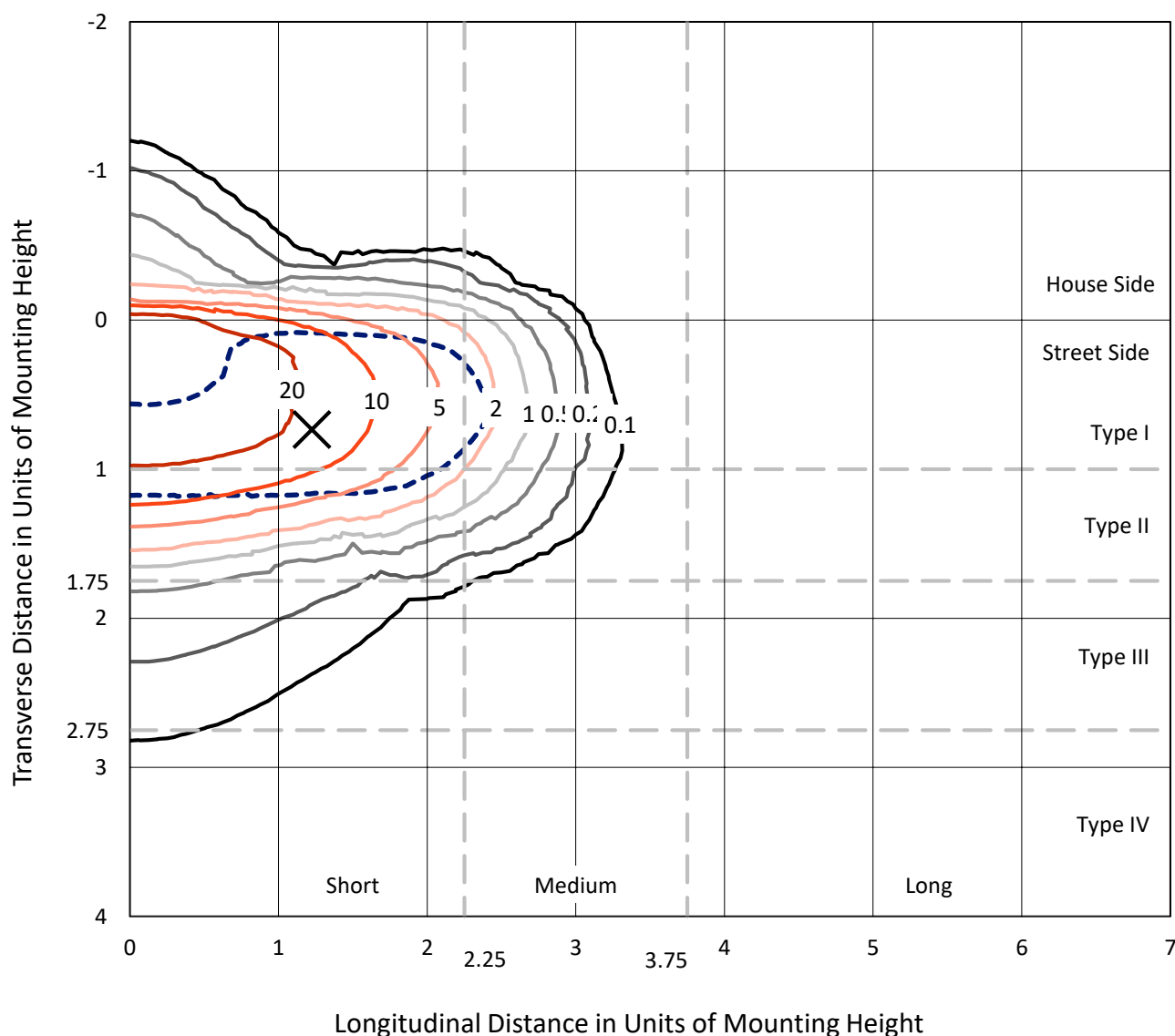
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

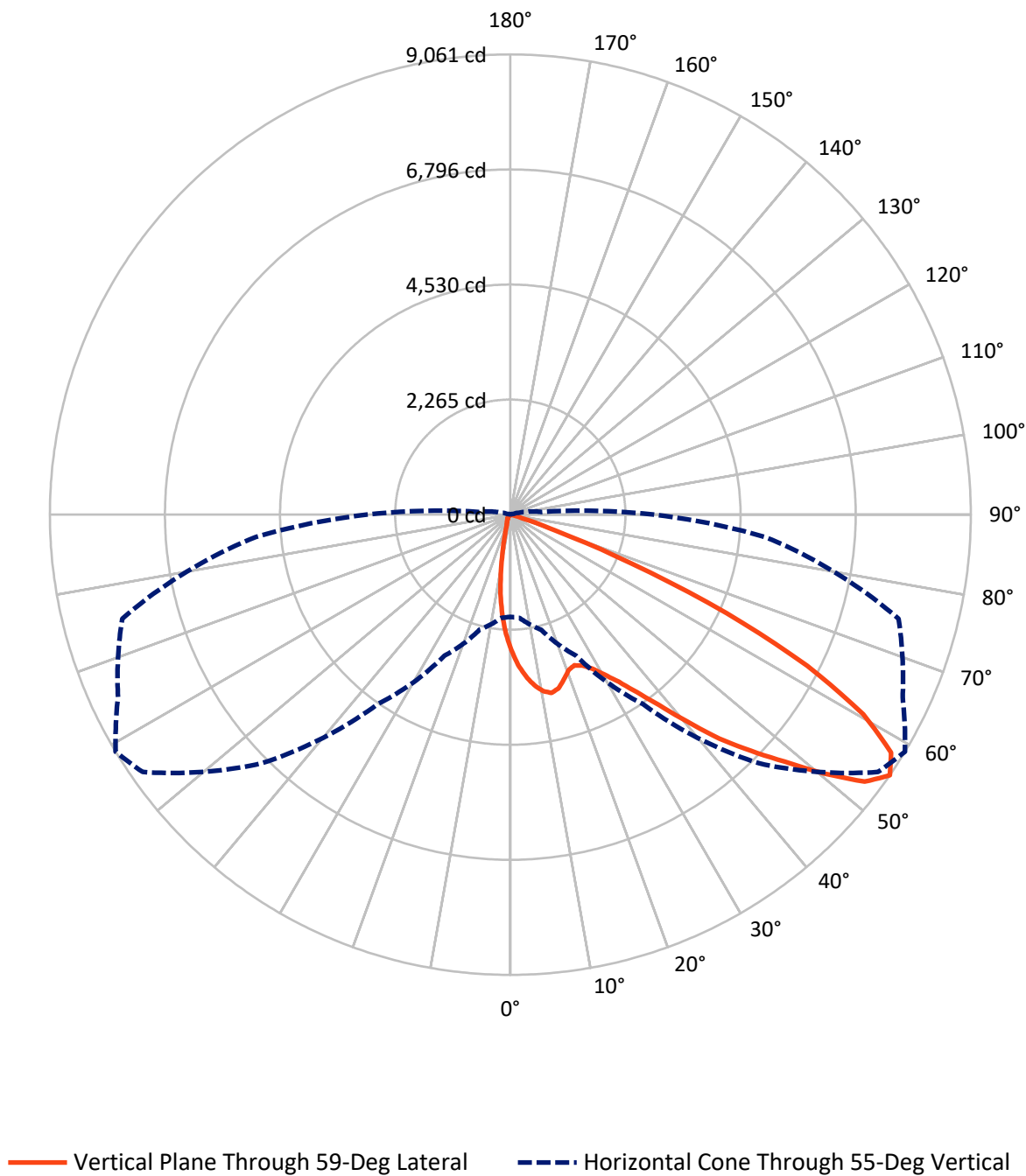


Based on 10 foot mounting height. Maximum calculated value = 33.2 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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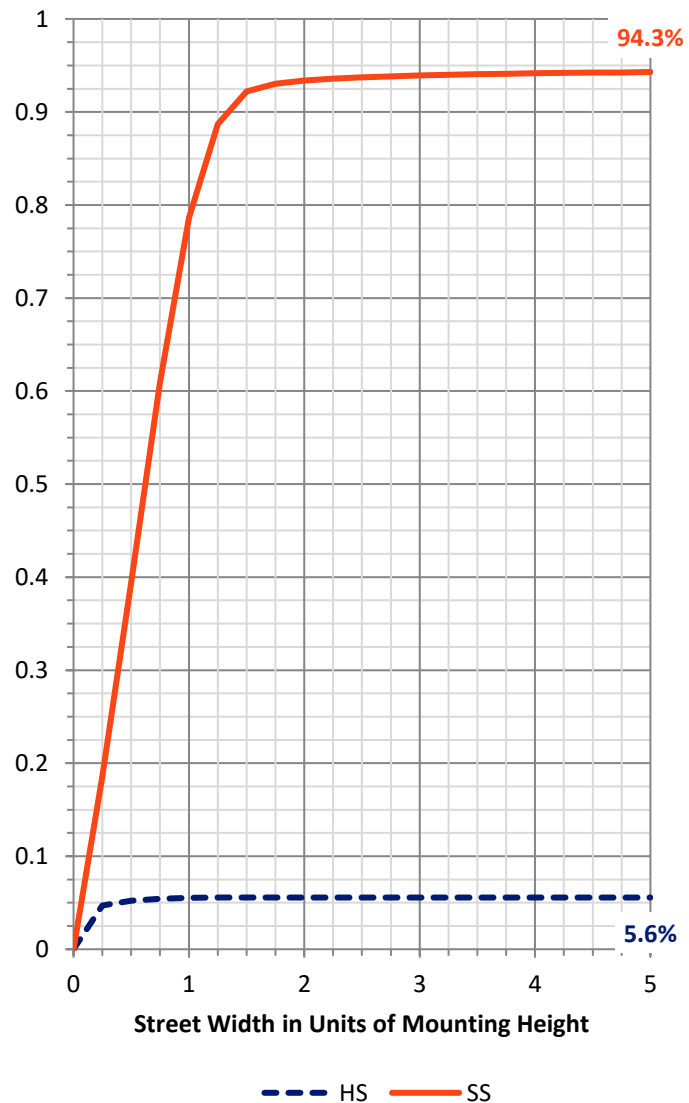
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	529.5	0.0	529.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	8949.9	0.0	8949.9
	% Fixture	94.4	0.0	94.4
Total	Lumens	9479.3	0.0	9479.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.5	2.4
10°-20°	535.1	5.6
20°-30°	910.6	9.6
30°-40°	1566.0	16.5
40°-50°	2417.8	25.5
50°-60°	2430.6	25.6
60°-70°	1246.4	13.1
70°-80°	135.1	1.4
80°-90°	14.1	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°	9479.3	100.0
0°-180°	9479.3	100.0

Coefficient of Utilization



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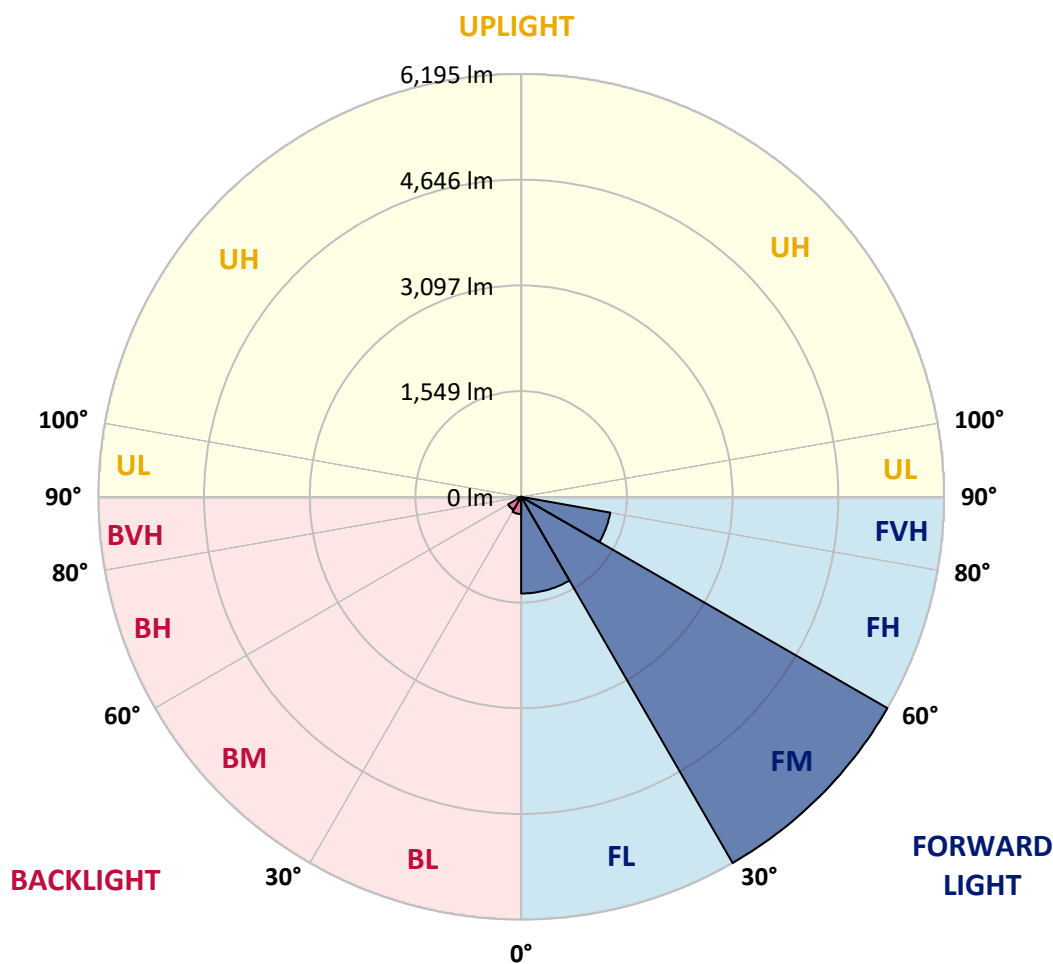
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1416.5	14.9			
FM	(30°-60°)	6194.7	65.3			
FH	(60°-80°)	1324.8	14.0			G1/1800
FVH	(80°-90°)	13.8	0.1			G1/100
BL	(0°-30°)	252.7	2.7	B1/500		
BM	(30°-60°)	219.7	2.3	B0/220		
BH	(60°-80°)	56.7	0.6	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2668.4	2668.4	2668.4	2668.4	2668.4	2668.4	2668.4	2668.4	2668.4	2668.4	2668.4
2.5°	3157.4	3123.7	3113.7	3107.0	3076.2	3037.6	2985.1	2960.4	2910.0	2828.9	2729.4
5°	3446.6	3440.3	3417.9	3405.7	3372.8	3317.8	3234.0	3193.6	3113.7	2977.2	2798.7
7.5°	3320.1	3358.7	3389.4	3440.9	3505.8	3503.6	3433.2	3391.2	3301.7	3121.5	2875.9
10°	2831.8	2863.0	2913.4	3030.3	3268.6	3479.1	3561.8	3531.6	3459.9	3254.1	2950.3
12.5°	2736.1	2732.7	2741.7	2775.8	2900.5	3200.4	3540.0	3600.9	3586.4	3375.4	3020.8
15°	2786.9	2783.1	2782.0	2793.8	2824.0	2950.3	3376.0	3551.2	3663.6	3487.9	3080.7
17.5°	2929.7	2912.9	2903.9	2894.4	2885.4	2916.7	3179.1	3411.8	3675.4	3586.4	3130.5
20°	3174.1	3146.1	3113.2	3059.5	3009.1	2993.3	3096.3	3268.6	3633.4	3661.4	3162.9
22.5°	3481.2	3445.4	3388.3	3290.5	3188.0	3128.7	3137.2	3223.3	3570.7	3743.0	3178.1
25°	3826.4	3780.5	3704.4	3568.5	3417.9	3312.8	3258.0	3288.2	3542.1	3838.8	3195.4
27.5°	4196.1	4145.3	4045.7	3860.4	3689.9	3547.7	3435.8	3432.0	3591.0	3964.0	3223.3
30°	4562.5	4554.7	4425.0	4229.2	4003.2	3830.3	3669.2	3648.5	3726.9	4137.4	3278.8
32.5°	5051.5	4992.7	4833.8	4632.5	4371.8	4164.3	3973.5	3925.3	3935.5	4339.3	3364.3
35°	5668.0	5603.7	5379.8	5101.9	4810.3	4565.4	4354.4	4289.0	4264.4	4670.0	3508.7
37.5°	6066.3	6065.2	5924.7	5641.7	5329.0	5058.8	4829.4	4752.8	4702.9	5069.4	3732.4
40°	6076.9	6103.2	6121.7	6118.8	5896.1	5647.3	5443.7	5349.2	5233.3	5603.1	4021.7
42.5°	5750.8	5818.5	5981.3	6257.6	6389.6	6290.6	6118.8	6025.9	5853.7	6174.2	4374.0
45°	5309.9	5357.0	5641.7	6150.7	6657.0	6928.3	6797.4	6631.3	6404.1	6770.0	4690.1
47.5°	5112.5	5120.9	5304.9	5863.7	6677.2	7450.8	7530.2	7260.1	6904.3	7250.0	4937.4
50°	4522.2	4537.4	4791.3	5366.5	6441.1	7697.6	8266.4	8010.3	7449.8	7619.7	5027.4
52.5°	3408.5	3429.7	3752.0	4549.1	5792.2	7592.3	8793.4	8731.4	8047.2	7800.4	5032.5
55°	2011.1	2039.1	2346.8	3062.2	4555.9	6923.3	8832.5	9060.8	8518.7	7907.3	5024.7
57.5°	939.3	958.9	1135.1	1577.6	2833.4	5471.6	8242.9	8834.8	8778.9	7963.8	5080.0
60°	499.0	504.6	547.1	683.1	1280.5	3469.5	7092.2	7977.8	8541.7	8042.1	5147.8
62.5°	381.6	383.2	381.0	397.1	538.1	1540.0	5360.8	6558.5	7586.8	7983.3	5072.8
65°	330.6	333.5	317.7	313.8	345.2	549.3	3184.7	4674.9	5961.6	7190.7	4562.0
67.5°	296.5	297.6	278.6	262.3	268.0	297.0	1256.5	2559.3	3946.1	5270.7	3306.7
70°	273.0	271.8	251.2	225.4	218.2	203.1	399.5	938.1	1885.9	2672.9	1537.9
72.5°	241.7	242.2	232.1	198.7	181.3	142.0	185.2	273.5	562.8	728.3	360.2
75°	214.2	211.4	199.2	177.9	149.3	93.4	91.8	122.0	173.4	172.3	77.8
77.5°	154.9	152.2	156.0	146.0	114.7	60.4	45.9	58.8	70.5	68.3	21.9
80°	113.5	111.9	100.7	121.4	101.3	41.4	28.5	31.3	36.4	30.8	6.7
82.5°	77.8	77.2	71.0	67.0	57.6	25.1	17.9	19.5	23.5	17.4	3.4
85°	12.3	13.9	51.5	40.9	34.1	11.2	12.3	13.4	15.7	9.5	1.1
87.5°	0.0	0.0	24.0	21.3	6.7	4.5	7.3	7.8	7.8	5.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2668.4	2668.4	2668.4	2668.4	2668.4	2668.4	2668.4	2668.4	2668.4	2668.4	2668.4
2.5°	2678.5	2622.5	2519.1	2412.2	2313.1	2195.1	2114.0	2053.1	1982.5	1963.5	2004.9
5°	2696.9	2591.2	2368.5	2126.3	1898.6	1646.3	1453.3	1300.6	1162.4	1115.4	1157.9
7.5°	2726.0	2568.8	2205.7	1806.9	1410.9	1016.9	747.4	570.0	457.0	423.5	441.4
10°	2755.1	2536.4	2017.3	1428.8	887.1	495.1	322.2	257.3	233.3	228.3	231.1
12.5°	2779.1	2492.8	1787.4	1015.9	474.4	265.2	210.9	200.3	196.8	196.8	198.0
15°	2793.8	2426.7	1514.9	646.2	273.0	200.3	184.0	180.8	180.8	181.3	182.4
17.5°	2792.0	2342.8	1216.7	391.0	204.2	177.3	167.8	165.0	164.4	165.6	166.2
20°	2771.4	2233.2	917.4	257.9	177.9	161.7	152.2	147.2	146.5	147.7	148.8
22.5°	2732.1	2097.8	656.2	198.7	160.5	146.5	134.8	130.3	130.3	131.4	132.5
25°	2684.6	1932.2	448.6	168.4	144.9	130.3	119.2	115.3	116.4	119.2	119.7
27.5°	2625.3	1746.0	304.9	144.3	125.8	114.0	105.8	102.9	105.8	109.7	110.8
30°	2574.3	1551.8	217.7	124.8	106.8	98.5	93.4	93.4	97.4	104.6	106.3
32.5°	2535.3	1363.9	167.8	110.3	92.9	85.5	82.8	85.5	91.8	99.0	100.7
35°	2530.2	1208.9	142.0	98.5	82.8	75.5	74.4	79.4	85.5	91.2	92.4
37.5°	2568.8	1065.8	128.1	88.9	73.9	67.0	66.0	72.1	78.3	85.0	86.8
40°	2642.1	953.3	118.0	80.0	66.5	59.3	57.1	61.5	69.9	78.8	81.1
42.5°	2737.2	860.4	106.8	71.0	59.3	49.2	46.4	51.5	60.4	69.9	72.7
45°	2827.8	780.3	94.5	60.9	49.8	38.0	36.9	43.6	48.1	57.6	59.9
47.5°	2877.7	709.8	83.9	49.8	38.6	30.8	30.8	32.4	36.9	48.1	50.4
50°	2860.9	653.4	72.7	36.9	26.9	23.5	23.5	23.0	29.6	38.6	40.3
52.5°	2827.3	620.9	62.6	28.5	18.5	16.8	15.1	16.8	20.6	24.6	25.1
55°	2822.2	615.3	52.6	23.0	12.9	11.2	8.4	8.4	8.4	7.8	6.7
57.5°	2861.4	624.3	44.1	18.5	9.5	7.3	4.5	0.0	0.0	0.0	0.0
60°	2901.7	633.8	38.0	12.9	6.7	4.0	0.5	0.0	0.0	0.0	0.0
62.5°	2834.5	612.5	31.9	7.8	5.0	1.6	0.0	0.0	0.0	0.0	0.0
65°	2489.9	521.3	25.1	5.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1771.1	349.1	16.8	3.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	808.3	146.0	10.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	172.8	45.4	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	35.3	33.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.2	52.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.7	37.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.1	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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)