

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: P324907

Luminaire Tested: **GAN-SA3A-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324907
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-SA3A-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 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: 8561 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

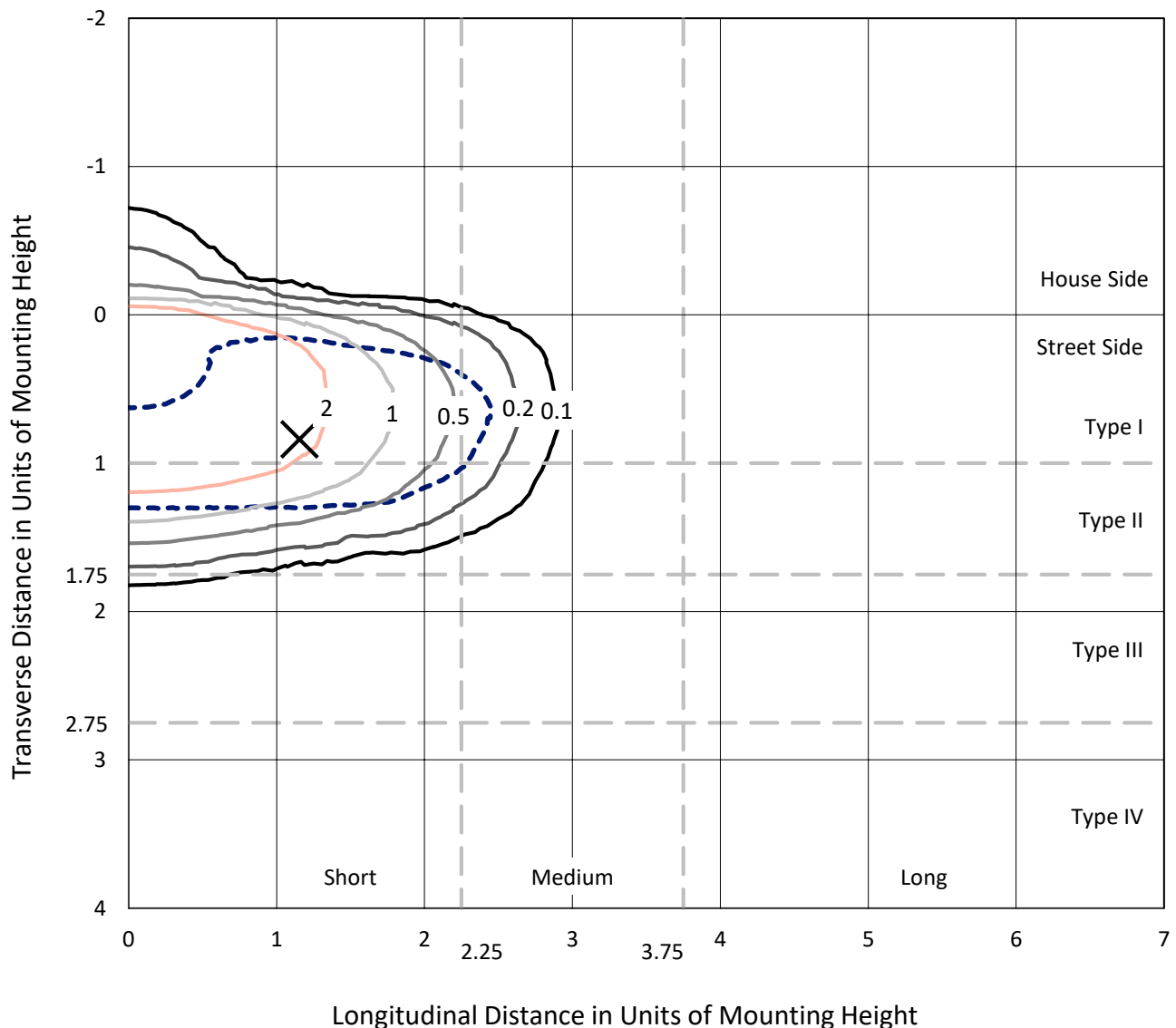
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

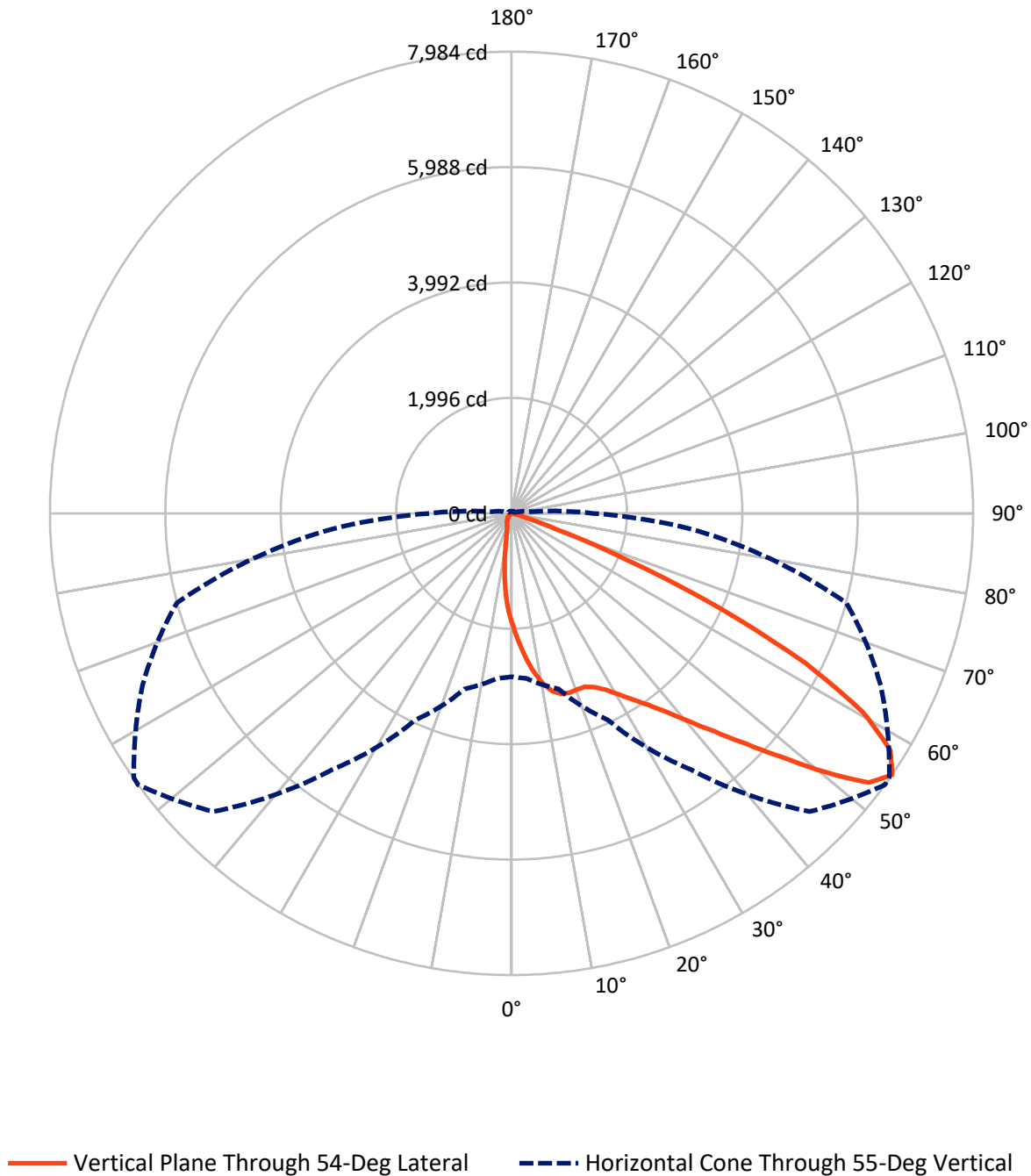
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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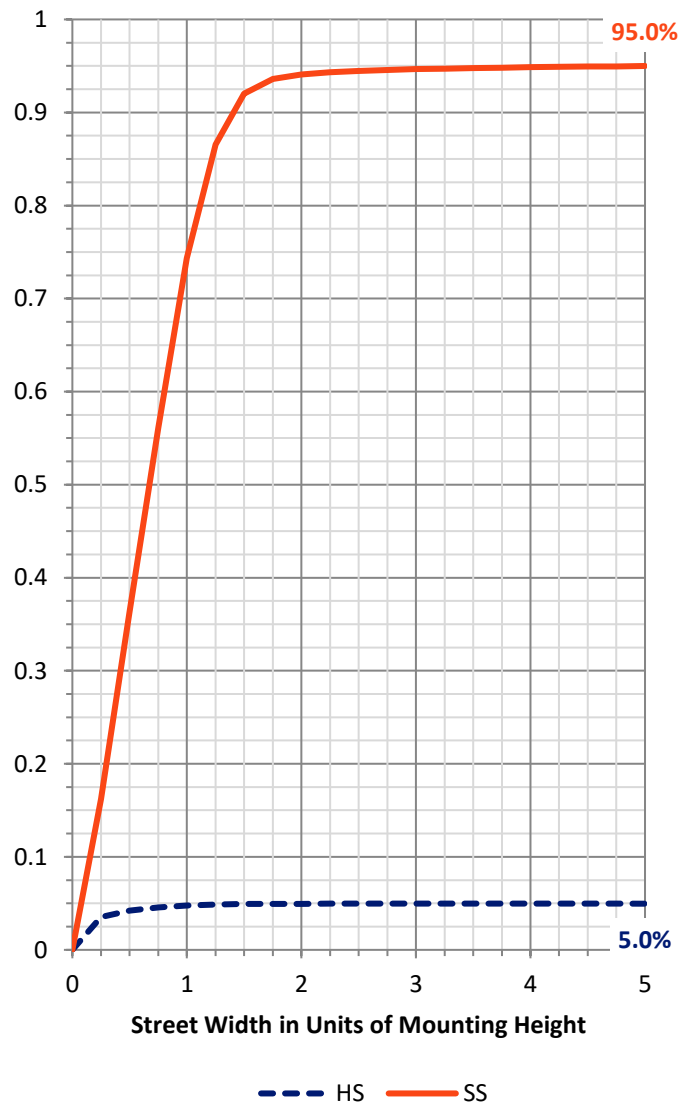
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	427.1	0.0	427.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	8133.9	0.0	8133.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	8561.0	0.0	8561.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.6	2.1
10°-20°	484.2	5.7
20°-30°	826.7	9.7
30°-40°	1326.8	15.5
40°-50°	2120.2	24.8
50°-60°	2271.9	26.5
60°-70°	1166.4	13.6
70°-80°	176.7	2.1
80°-90°	11.5	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°	8561.0	100.0
0°-180°	8561.0	100.0

Coefficient of Utilization



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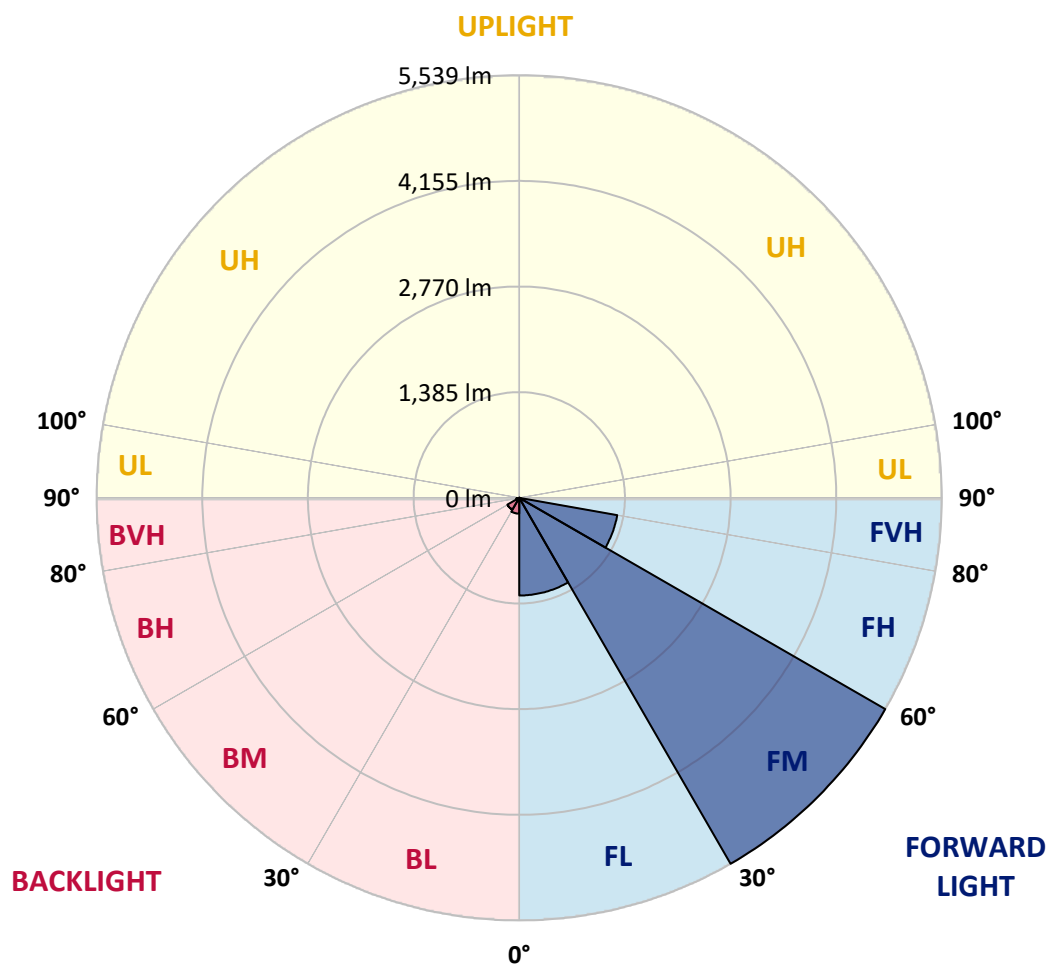
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1279.7	14.9			
FM	(30°-60°)	5539.3	64.7			
FH	(60°-80°)	1303.8	15.2			G1/1800
FVH	(80°-90°)	11.0	0.1			G1/100
BL	(0°-30°)	207.8	2.4	B1/500		
BM	(30°-60°)	179.5	2.1	B0/220		
BH	(60°-80°)	39.4	0.5	B0/110		G0/110
BVH	(80°-90°)	0.5	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°	54°	55°	65°	75°	85°
0°	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3
2.5°	2406.1	2370.2	2371.3	2355.1	2295.5	2249.0	2200.5	2189.1	2113.6	2034.5	1958.4
5°	2822.0	2795.8	2789.5	2758.0	2675.2	2587.6	2493.7	2471.9	2324.4	2162.4	2003.1
7.5°	3035.7	3036.1	3030.9	3019.4	2967.7	2882.6	2768.0	2745.1	2544.3	2301.4	2049.7
10°	2973.6	2987.6	3016.5	3054.6	3094.1	3083.4	2997.2	2976.5	2758.4	2448.6	2101.4
12.5°	2828.7	2830.5	2862.7	2925.2	3039.0	3155.9	3157.3	3150.3	2962.9	2602.4	2158.4
15°	2756.6	2763.6	2775.4	2815.7	2923.7	3110.7	3244.6	3254.6	3150.3	2765.8	2219.0
17.5°	2803.9	2813.9	2803.9	2808.7	2871.2	3039.4	3259.7	3285.3	3314.1	2927.4	2276.3
20°	2932.2	2941.4	2923.7	2904.1	2916.3	3018.7	3249.0	3283.4	3442.4	3070.8	2324.4
22.5°	3105.2	3108.9	3081.9	3049.7	3040.9	3088.9	3257.9	3293.4	3545.2	3200.6	2354.7
25°	3295.6	3298.9	3265.3	3228.3	3207.2	3226.8	3330.7	3357.3	3635.7	3324.4	2372.1
27.5°	3503.0	3506.0	3463.8	3418.3	3393.9	3394.7	3450.9	3479.3	3732.2	3465.7	2386.1
30°	3722.2	3720.8	3682.0	3618.7	3587.7	3586.9	3623.9	3652.7	3872.0	3646.8	2405.3
32.5°	3968.5	3965.5	3910.4	3832.1	3796.9	3802.1	3835.0	3851.6	4045.4	3839.8	2439.7
35°	4292.7	4284.2	4201.0	4103.8	4039.1	4037.2	4065.0	4078.3	4266.5	4073.5	2497.0
37.5°	4713.4	4705.7	4592.9	4451.7	4360.7	4326.7	4359.6	4376.6	4581.8	4373.3	2589.1
40°	5128.3	5120.5	5053.6	4924.2	4784.1	4702.4	4728.2	4746.3	4975.6	4737.1	2705.2
42.5°	5414.4	5421.1	5444.4	5455.1	5323.8	5152.3	5164.1	5183.0	5389.3	5126.0	2837.9
45°	5489.8	5504.3	5635.9	5894.3	5943.5	5809.6	5685.8	5696.1	5809.6	5515.0	2970.6
47.5°	5263.2	5289.8	5543.8	6024.4	6440.7	6535.4	6301.0	6287.3	6213.0	5829.6	3064.9
50°	4748.2	4772.6	5101.6	5812.6	6591.6	7228.2	7038.2	6997.9	6566.8	6017.8	3098.2
52.5°	4002.9	4032.4	4299.7	5145.6	6307.3	7537.3	7736.2	7702.6	6826.3	6032.6	3103.7
55°	2826.8	2862.7	3145.5	3943.7	5406.3	7291.4	7983.5	7973.6	7041.9	5993.4	3115.6
57.5°	1588.6	1614.5	1919.5	2528.1	3959.6	6350.9	7725.1	7791.3	7172.0	5925.4	3133.3
60°	705.4	712.4	870.3	1258.5	2318.1	4853.6	6985.3	7097.0	7060.4	5834.4	3163.2
62.5°	391.2	385.2	385.2	523.1	1007.5	3004.6	5696.1	5880.6	6583.8	5726.8	3164.7
65°	306.5	300.9	285.0	287.3	383.8	1333.5	3944.4	4272.4	5678.8	5411.5	3058.2
67.5°	259.9	255.1	239.2	232.9	238.5	440.0	2167.2	2507.7	4309.0	4591.8	2649.0
70°	219.6	216.3	208.1	200.4	186.3	217.4	829.3	1060.7	2655.3	3054.6	1808.3
72.5°	176.7	175.2	178.2	171.5	154.5	144.9	283.6	343.5	1192.7	1363.1	745.0
75°	152.3	151.6	153.1	146.4	127.2	100.9	144.2	157.5	336.4	333.5	150.8
77.5°	99.1	100.2	126.8	123.9	109.4	67.3	74.7	80.6	102.0	76.5	45.8
80°	63.2	62.5	64.3	102.8	98.3	51.4	37.3	39.2	49.2	37.7	22.2
82.5°	38.4	37.7	42.1	48.1	49.5	35.9	22.9	23.3	30.7	24.4	11.8
85°	3.3	4.4	25.5	23.7	17.0	11.1	11.1	11.8	16.3	14.4	6.7
87.5°	0.0	0.0	4.4	6.7	3.7	4.1	4.1	4.4	6.3	6.3	3.3
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°	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3
2.5°	1918.8	1880.3	1802.7	1728.0	1664.8	1603.8	1534.3	1465.5	1433.4	1420.4	1407.1
5°	1922.1	1843.0	1682.9	1521.7	1354.6	1204.1	1075.9	944.2	878.4	849.6	836.3
7.5°	1926.6	1806.0	1547.2	1276.6	1007.5	803.4	625.2	510.6	461.0	453.3	434.0
10°	1927.3	1761.3	1389.7	1006.0	675.5	484.3	372.7	313.5	291.7	288.0	281.7
12.5°	1928.8	1708.4	1214.9	745.0	450.3	323.9	269.5	249.9	244.0	243.6	243.6
15°	1933.2	1653.0	1033.3	536.8	323.5	256.6	236.6	228.9	226.6	227.7	227.4
17.5°	1933.2	1587.5	855.1	400.0	261.4	230.7	219.6	214.4	213.7	214.8	215.2
20°	1919.2	1508.1	691.7	311.3	231.8	214.1	204.1	199.3	197.4	198.2	198.5
22.5°	1885.5	1410.4	558.6	257.7	212.2	198.9	188.2	180.8	177.8	178.2	178.2
25°	1833.0	1294.7	437.0	222.9	196.3	182.6	170.1	161.6	159.7	159.3	160.1
27.5°	1765.7	1166.8	347.9	196.3	177.5	164.5	152.0	144.9	143.4	143.8	144.2
30°	1699.6	1034.1	274.3	173.8	156.4	144.2	134.6	131.2	131.2	132.4	132.7
32.5°	1638.9	906.5	217.0	154.2	137.5	126.4	120.9	120.5	122.4	123.1	123.5
35°	1586.8	788.6	179.7	139.0	122.7	113.1	111.3	112.8	115.0	116.5	116.8
37.5°	1549.8	683.2	157.1	126.4	111.3	103.5	103.1	106.1	109.1	112.4	113.1
40°	1534.3	594.1	141.6	115.3	102.0	96.1	95.0	99.1	104.6	109.4	110.2
42.5°	1521.4	521.3	128.3	104.6	94.6	86.1	85.8	90.9	97.6	102.4	103.5
45°	1510.3	462.9	116.1	93.2	85.0	73.9	75.1	81.7	86.9	92.1	93.2
47.5°	1487.3	414.8	102.8	81.0	70.2	63.2	65.4	71.4	75.4	83.2	84.3
50°	1446.3	375.6	89.1	66.2	57.3	54.7	58.0	62.1	67.3	73.9	74.7
52.5°	1418.6	346.0	77.3	55.5	47.3	48.1	51.4	52.9	55.8	58.4	57.7
55°	1402.7	329.8	67.7	48.1	40.3	42.5	43.3	41.4	39.9	37.3	36.2
57.5°	1400.8	315.0	60.3	41.8	35.5	36.6	34.0	27.7	22.6	19.6	18.9
60°	1397.9	296.9	54.3	35.1	31.4	29.9	24.4	15.2	10.7	10.0	10.0
62.5°	1365.7	268.8	49.9	29.6	26.6	22.6	14.0	7.0	5.9	6.3	6.3
65°	1263.3	229.6	45.5	24.0	21.1	16.3	7.0	4.1	2.2	2.6	2.6
67.5°	1074.0	183.0	40.7	18.5	15.9	10.4	4.1	1.8	0.0	0.0	0.0
70°	719.1	113.5	34.4	12.9	10.4	6.3	3.0	0.4	0.0	0.0	0.0
72.5°	275.8	61.4	27.7	7.8	6.7	4.4	1.8	0.0	0.0	0.0	0.0
75°	62.1	40.3	19.2	5.5	4.8	3.0	0.7	0.0	0.0	0.0	0.0
77.5°	23.7	29.2	11.1	3.7	3.3	1.8	0.0	0.0	0.0	0.0	0.0
80°	11.5	17.4	5.2	2.2	1.8	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	5.9	6.7	2.2	1.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.3	3.3	1.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	1.1	0.4	0.4	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)