

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: P324926

Luminaire Tested: **GAN-SA2C-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324926
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-SA2C-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA 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: 8709 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

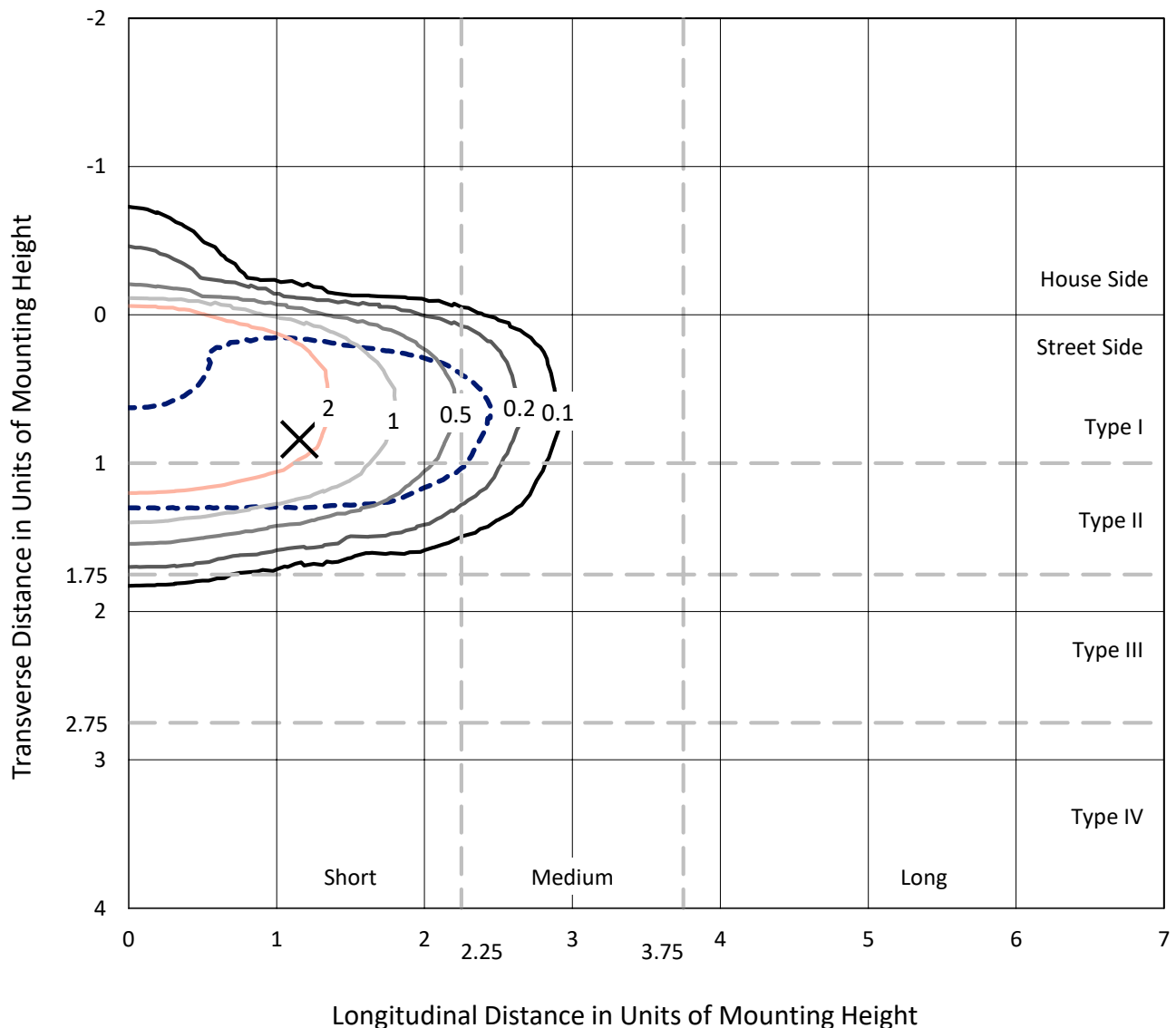
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

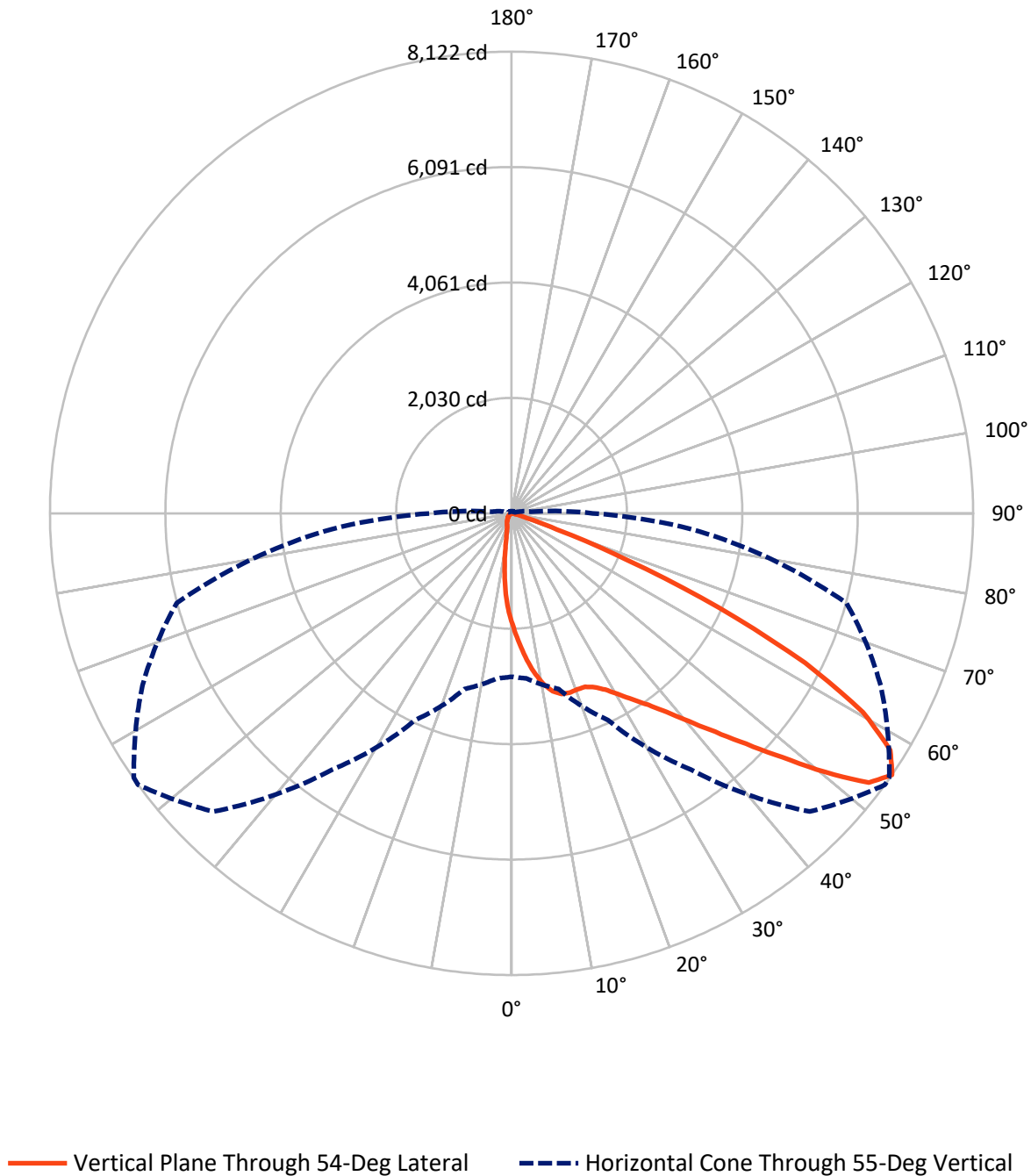
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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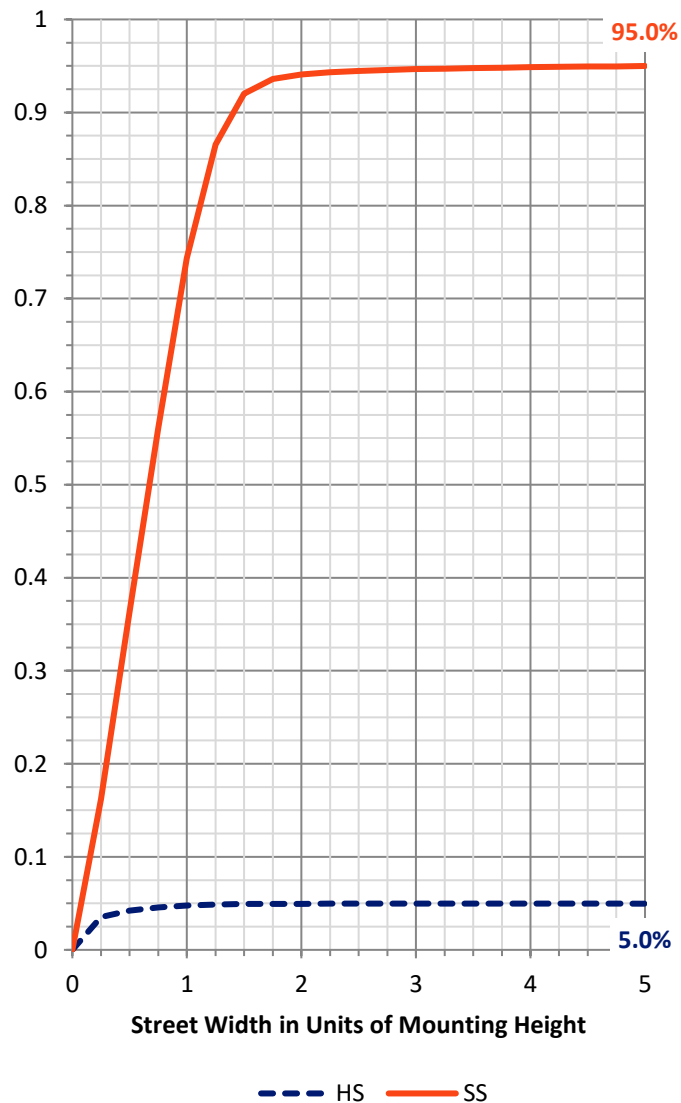
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	434.5	0.0	434.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	8274.5	0.0	8274.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	8709.0	0.0	8709.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.6	2.1
10°-20°	492.6	5.7
20°-30°	841.0	9.7
30°-40°	1349.7	15.5
40°-50°	2156.9	24.8
50°-60°	2311.1	26.5
60°-70°	1186.6	13.6
70°-80°	179.7	2.1
80°-90°	11.7	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°	8709.0	100.0
0°-180°	8709.0	100.0

Coefficient of Utilization



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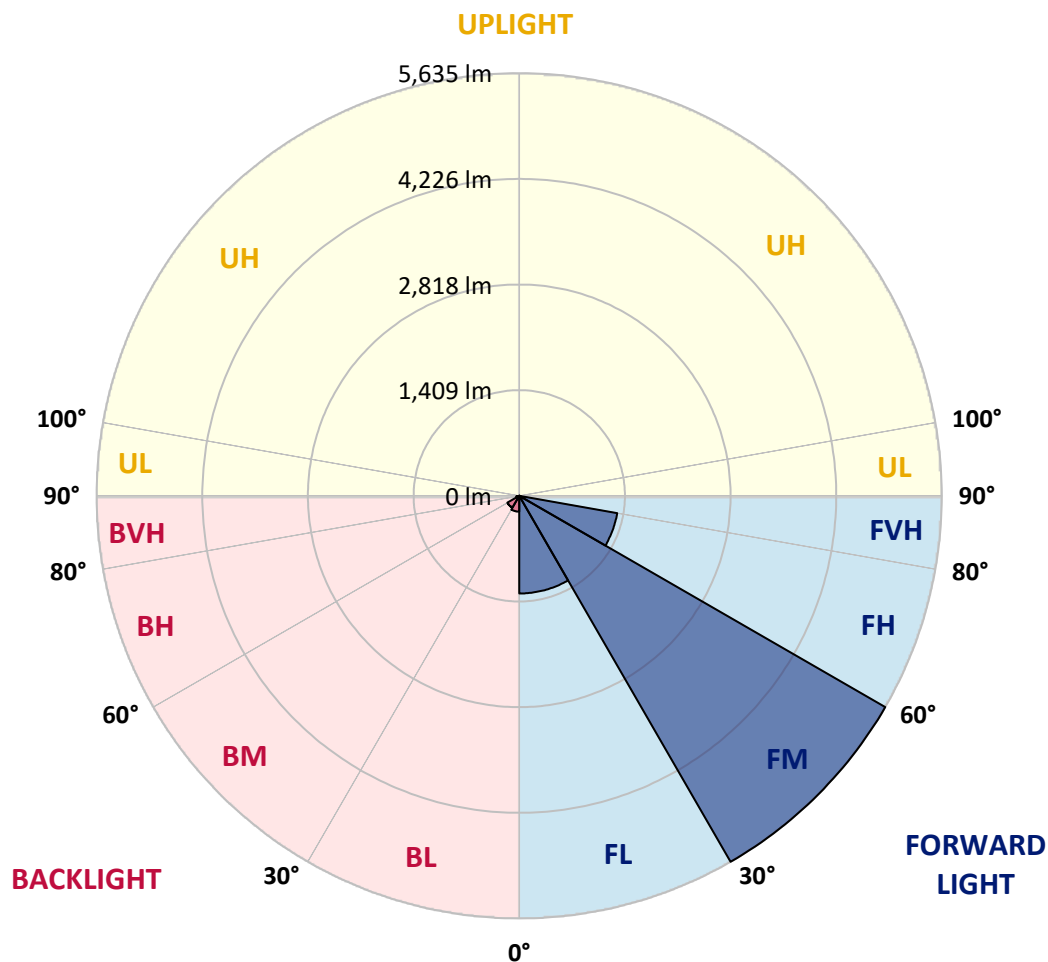
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1301.8	14.9			
FM	(30°-60°)	5635.1	64.7			
FH	(60°-80°)	1326.3	15.2			G1/1800
FVH	(80°-90°)	11.2	0.1			G1/100
BL	(0°-30°)	211.4	2.4	B1/500		
BM	(30°-60°)	182.6	2.1	B0/220		
BH	(60°-80°)	40.0	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°	1950.5	1950.5	1950.5	1950.5	1950.5	1950.5	1950.5	1950.5	1950.5	1950.5	1950.5
2.5°	2447.7	2411.2	2412.3	2395.8	2335.2	2287.8	2238.6	2226.9	2150.2	2069.7	1992.2
5°	2870.8	2844.1	2837.7	2805.7	2721.5	2632.3	2536.8	2514.6	2364.6	2199.8	2037.7
7.5°	3088.2	3088.6	3083.3	3071.6	3019.0	2932.5	2815.9	2792.6	2588.3	2341.2	2085.1
10°	3025.0	3039.3	3068.6	3107.4	3147.6	3136.7	3049.1	3028.0	2806.1	2490.9	2137.8
12.5°	2877.6	2879.4	2912.2	2975.7	3091.6	3210.4	3211.9	3204.8	3014.1	2647.4	2195.7
15°	2804.2	2811.4	2823.4	2864.4	2974.2	3164.5	3300.7	3310.8	3204.8	2813.6	2257.4
17.5°	2852.4	2862.5	2852.4	2857.2	2920.8	3091.9	3316.1	3342.0	3371.4	2978.0	2315.7
20°	2982.9	2992.3	2974.2	2954.3	2966.7	3070.9	3305.2	3340.2	3501.9	3123.9	2364.6
22.5°	3158.9	3162.6	3135.2	3102.5	3093.4	3142.3	3314.2	3350.3	3606.4	3255.9	2395.4
25°	3352.6	3356.0	3321.7	3284.1	3262.7	3282.6	3388.3	3415.4	3698.6	3381.9	2413.1
27.5°	3563.6	3566.6	3523.7	3477.4	3452.6	3453.4	3510.5	3539.5	3796.8	3525.6	2427.4
30°	3786.6	3785.1	3745.6	3681.3	3649.7	3648.9	3686.6	3715.9	3938.9	3709.9	2446.9
32.5°	4037.1	4034.1	3978.0	3898.3	3862.6	3867.8	3901.3	3918.2	4115.3	3906.2	2481.9
35°	4366.9	4358.3	4273.7	4174.7	4108.9	4107.0	4135.2	4148.8	4340.2	4143.9	2540.2
37.5°	4794.9	4787.0	4672.3	4528.6	4436.1	4401.5	4435.0	4452.3	4661.0	4448.9	2633.8
40°	5216.9	5209.0	5140.9	5009.3	4866.8	4783.6	4810.0	4828.4	5061.6	4819.0	2751.9
42.5°	5508.0	5514.8	5538.5	5549.4	5415.9	5241.4	5253.4	5272.6	5482.4	5214.7	2887.0
45°	5584.7	5599.4	5733.3	5996.2	6046.2	5910.1	5784.1	5794.6	5910.1	5610.3	3022.0
47.5°	5354.2	5381.3	5639.7	6128.6	6552.1	6648.4	6409.9	6396.0	6320.4	5930.4	3117.9
50°	4830.3	4855.1	5189.8	5913.1	6705.5	7353.2	7159.9	7118.9	6680.3	6121.8	3151.7
52.5°	4072.1	4102.1	4374.1	5234.6	6416.3	7667.6	7869.9	7835.7	6944.4	6136.9	3157.4
55°	2875.7	2912.2	3199.9	4011.9	5499.7	7417.5	8121.6	8111.4	7163.6	6097.0	3169.4
57.5°	1616.1	1642.4	1952.7	2571.8	4028.1	6460.7	7858.7	7926.0	7296.0	6027.8	3187.5
60°	717.6	724.7	885.3	1280.3	2358.2	4937.5	7106.1	7219.7	7182.4	5935.3	3217.9
62.5°	397.9	391.9	391.9	532.2	1024.9	3056.6	5794.6	5982.3	6697.6	5825.8	3219.4
65°	311.8	306.1	290.0	292.2	390.4	1356.6	4012.6	4346.2	5776.9	5505.0	3111.1
67.5°	264.4	259.5	243.3	236.9	242.6	447.6	2204.7	2551.1	4383.5	4671.2	2694.8
70°	223.4	220.0	211.7	203.8	189.6	221.1	843.6	1079.0	2701.2	3107.4	1839.5
72.5°	179.8	178.3	181.3	174.5	157.2	147.4	288.5	349.4	1213.3	1386.7	757.8
75°	155.0	154.2	155.7	148.9	129.4	102.7	146.7	160.2	342.3	339.2	153.4
77.5°	100.8	101.9	129.0	126.0	111.3	68.5	76.0	82.0	103.8	77.9	46.6
80°	64.3	63.6	65.4	104.6	100.0	52.3	38.0	39.9	50.0	38.4	22.6
82.5°	39.1	38.4	42.9	48.9	50.4	36.5	23.3	23.7	31.2	24.8	12.0
85°	3.4	4.5	26.0	24.1	17.3	11.3	11.3	12.0	16.5	14.7	6.8
87.5°	0.0	0.0	4.5	6.8	3.8	4.1	4.1	4.5	6.4	6.4	3.4
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°	1950.5	1950.5	1950.5	1950.5	1950.5	1950.5	1950.5	1950.5	1950.5	1950.5	1950.5
2.5°	1952.0	1912.9	1833.9	1757.9	1693.6	1631.5	1560.8	1490.9	1458.1	1445.0	1431.4
5°	1955.4	1874.9	1712.0	1548.0	1378.0	1225.0	1094.5	960.6	893.6	864.3	850.7
7.5°	1959.9	1837.3	1574.0	1298.7	1024.9	817.3	636.0	519.4	469.0	461.1	441.5
10°	1960.6	1791.8	1413.8	1023.4	687.1	492.7	379.1	318.9	296.7	293.0	286.6
12.5°	1962.1	1738.0	1235.9	757.8	458.1	329.5	274.2	254.2	248.2	247.9	247.9
15°	1966.6	1681.6	1051.2	546.1	329.1	261.0	240.7	232.8	230.6	231.7	231.3
17.5°	1966.6	1615.0	869.9	406.9	265.9	234.7	223.4	218.1	217.4	218.5	218.9
20°	1952.3	1534.1	703.7	316.7	235.8	217.8	207.6	202.7	200.8	201.6	202.0
22.5°	1918.1	1434.8	568.3	262.1	215.9	202.3	191.4	183.9	180.9	181.3	181.3
25°	1864.7	1317.1	444.6	226.8	199.7	185.8	173.0	164.4	162.5	162.1	162.9
27.5°	1796.3	1187.0	353.9	199.7	180.5	167.4	154.6	147.4	145.9	146.3	146.7
30°	1728.9	1052.0	279.1	176.8	159.1	146.7	136.9	133.5	133.5	134.6	135.0
32.5°	1667.3	922.2	220.8	156.8	139.9	128.6	123.0	122.6	124.5	125.2	125.6
35°	1614.2	802.2	182.8	141.4	124.9	115.1	113.2	114.7	117.0	118.5	118.8
37.5°	1576.6	695.0	159.8	128.6	113.2	105.3	104.9	107.9	111.0	114.3	115.1
40°	1560.8	604.4	144.0	117.3	103.8	97.8	96.7	100.8	106.4	111.3	112.1
42.5°	1547.7	530.3	130.5	106.4	96.3	87.6	87.3	92.5	99.3	104.2	105.3
45°	1536.4	470.9	118.1	94.8	86.5	75.2	76.3	83.1	88.4	93.6	94.8
47.5°	1513.1	422.0	104.6	82.4	71.5	64.3	66.6	72.6	76.7	84.6	85.8
50°	1471.3	382.1	90.6	67.3	58.3	55.7	59.0	63.2	68.5	75.2	76.0
52.5°	1443.1	352.0	78.6	56.4	48.1	48.9	52.3	53.8	56.8	59.4	58.7
55°	1426.9	335.5	68.8	48.9	41.0	43.3	44.0	42.1	40.6	38.0	36.9
57.5°	1425.1	320.4	61.3	42.5	36.1	37.2	34.6	28.2	22.9	19.9	19.2
60°	1422.0	302.0	55.3	35.7	32.0	30.5	24.8	15.4	10.9	10.2	10.2
62.5°	1389.3	273.4	50.8	30.1	27.1	22.9	14.3	7.1	6.0	6.4	6.4
65°	1285.1	233.6	46.3	24.4	21.4	16.5	7.1	4.1	2.3	2.6	2.6
67.5°	1092.6	186.2	41.4	18.8	16.2	10.5	4.1	1.9	0.0	0.0	0.0
70°	731.5	115.5	35.0	13.2	10.5	6.4	3.0	0.4	0.0	0.0	0.0
72.5°	280.6	62.4	28.2	7.9	6.8	4.5	1.9	0.0	0.0	0.0	0.0
75°	63.2	41.0	19.6	5.6	4.9	3.0	0.8	0.0	0.0	0.0	0.0
77.5°	24.1	29.7	11.3	3.8	3.4	1.9	0.0	0.0	0.0	0.0	0.0
80°	11.7	17.7	5.3	2.3	1.9	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	6.0	6.8	2.3	1.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.4	3.4	1.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	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)