

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: P192782

Luminaire Tested: **GAN-AF-04-LED-U-SL2-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-SL2-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15540 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 171
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

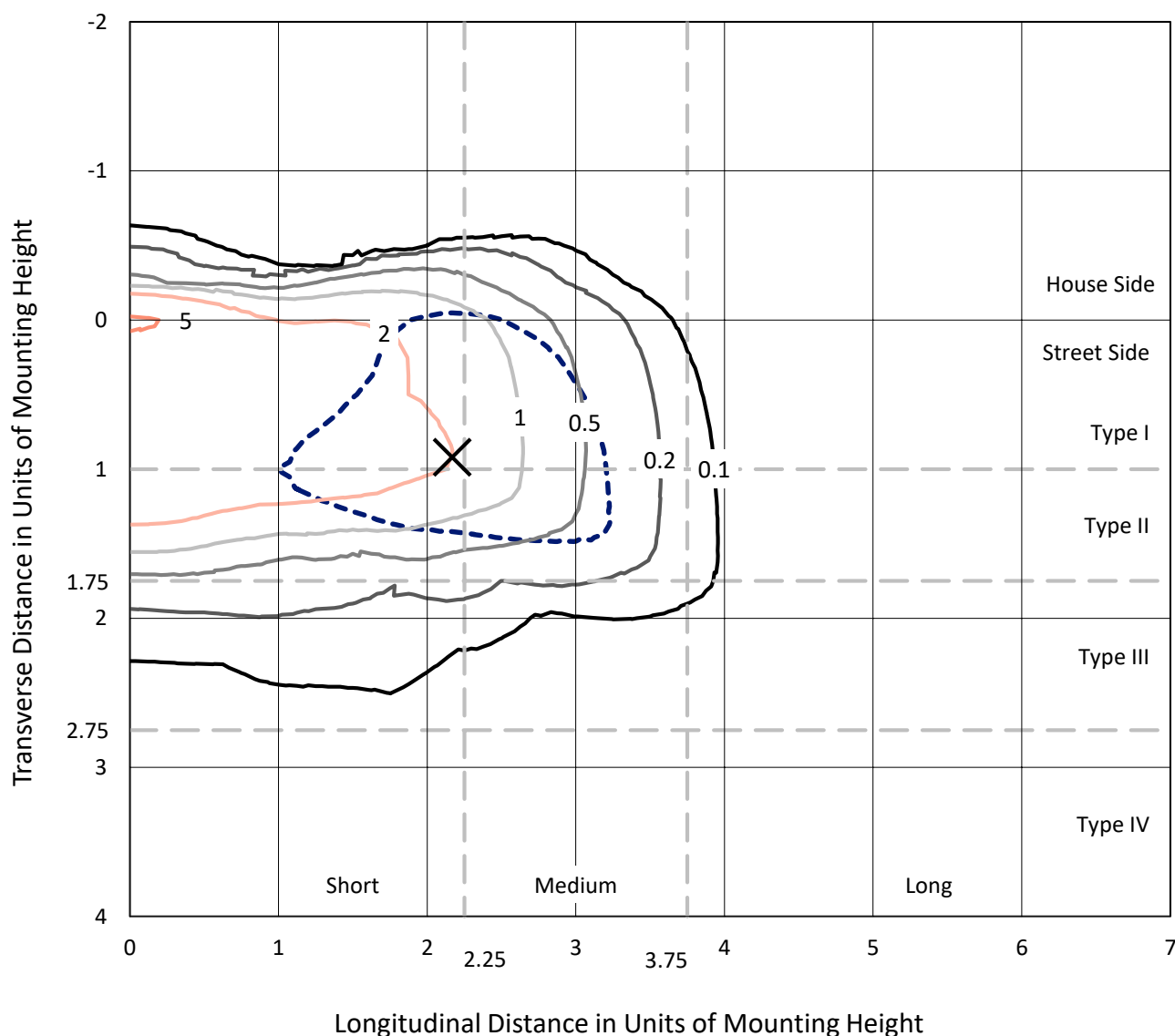


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

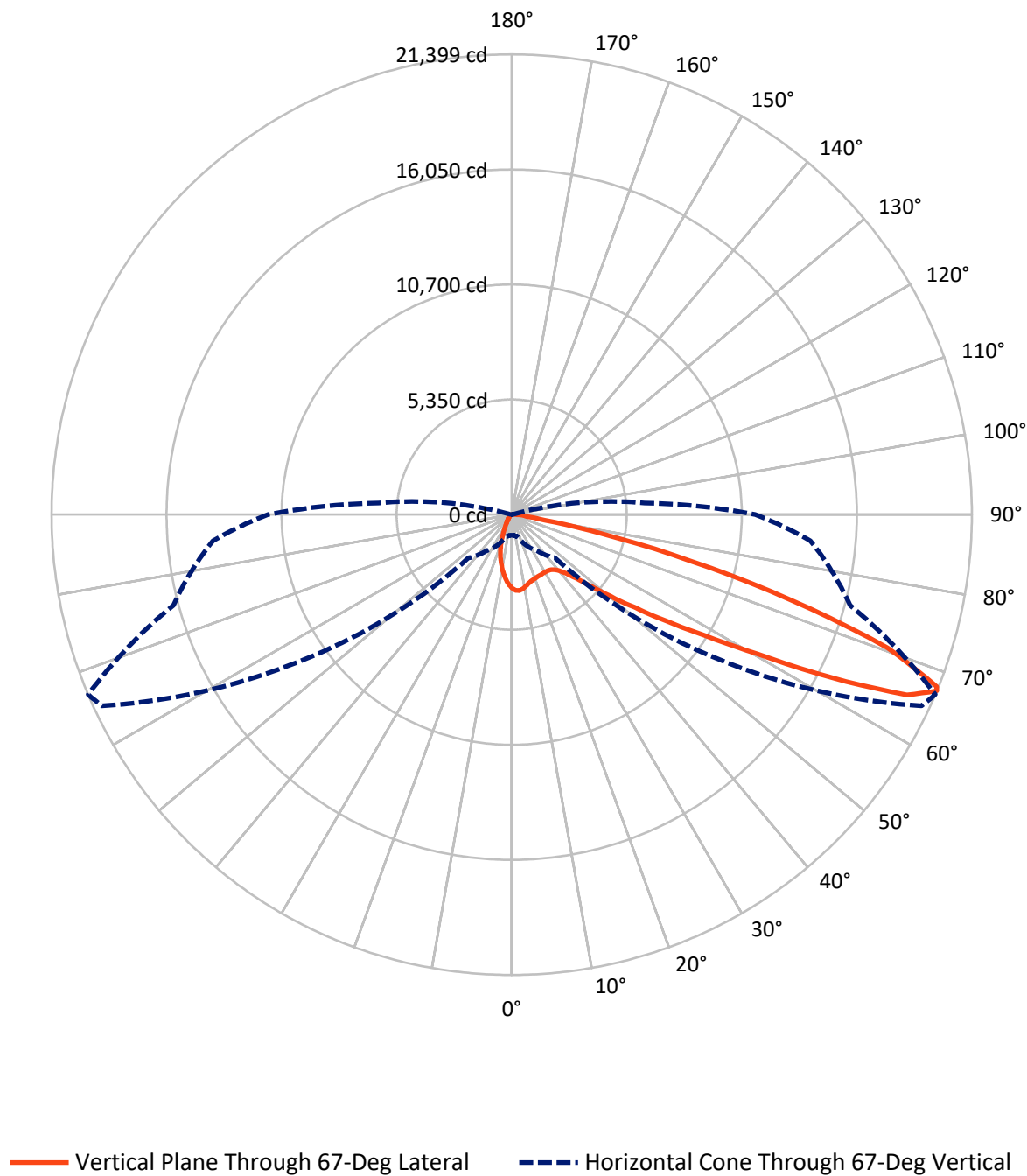


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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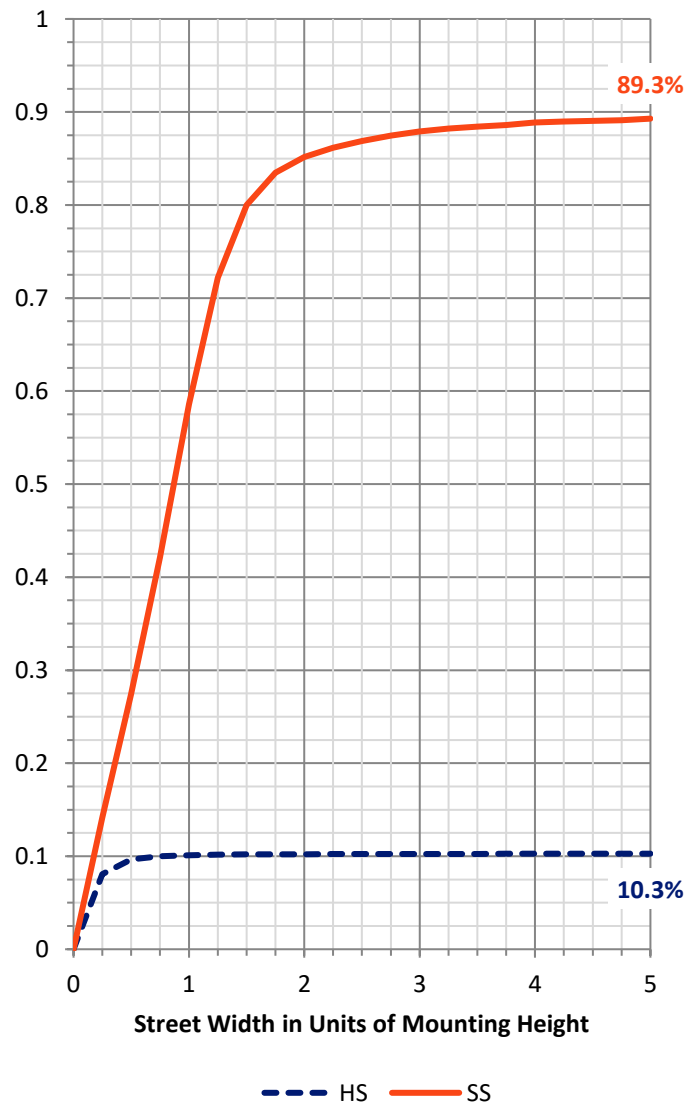
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1613.5	0.0	1613.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	13926.4	0.0	13926.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	15540.0	0.0	15540.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.9	1.8
10°-20°	593.5	3.8
20°-30°	862.9	5.6
30°-40°	1346.2	8.7
40°-50°	2384.7	15.3
50°-60°	3773.6	24.3
60°-70°	4322.1	27.8
70°-80°	1792.8	11.5
80°-90°	185.2	1.2
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°	15540.0	100.0
0°-180°	15540.0	100.0

Coefficient of Utilization



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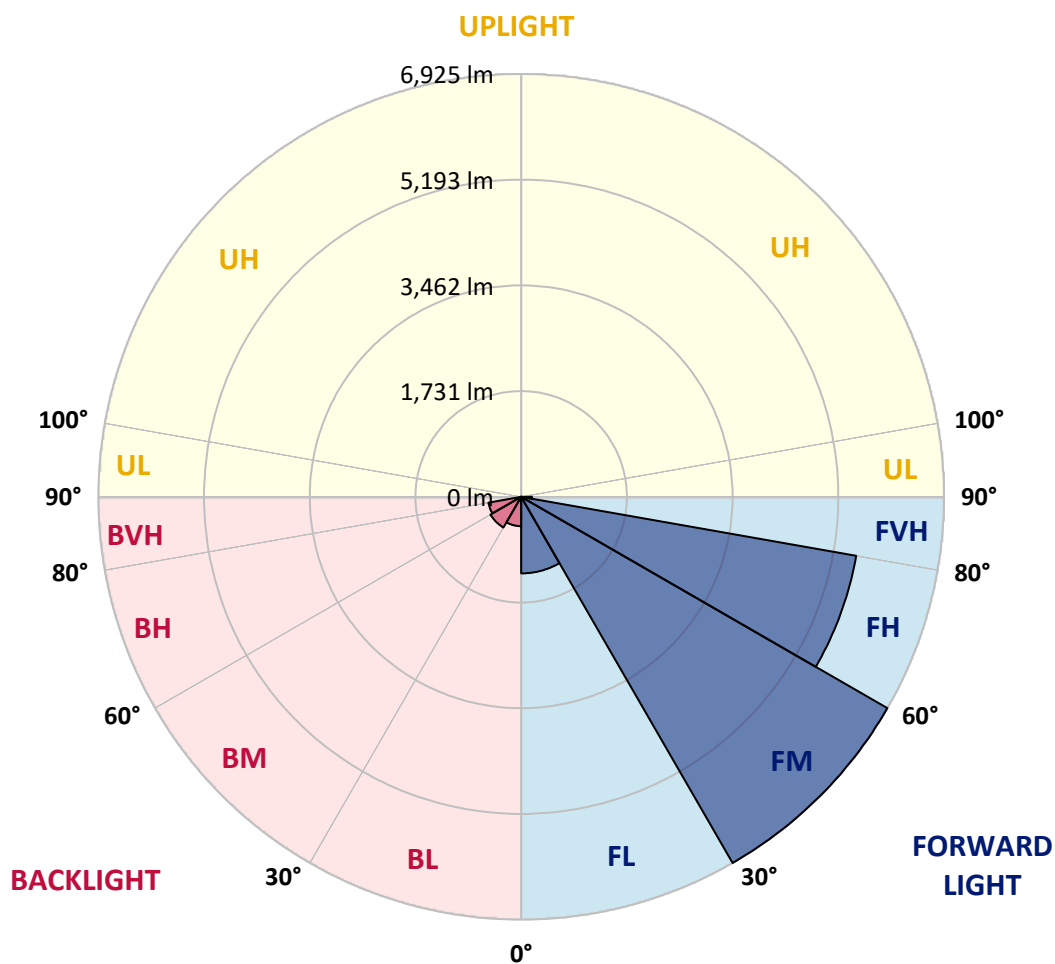
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1253.8	8.1			
FM	(30°-60°)	6924.6	44.6			
FH	(60°-80°)	5571.1	35.9			G3/7500
FVH	(80°-90°)	176.9	1.1			G2/225
BL	(0°-30°)	481.5	3.1	B1/500		
BM	(30°-60°)	579.9	3.7	B1/1000		
BH	(60°-80°)	543.8	3.5	B2/1000		G2/1000
BVH	(80°-90°)	8.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3427.1	3427.1	3427.1	3427.1	3427.1	3427.1	3427.1	3427.1	3427.1	3427.1	3427.1
2.5°	3543.2	3550.4	3549.5	3555.0	3567.7	3568.5	3555.9	3531.4	3525.9	3494.2	3438.9
5°	3267.6	3288.4	3301.2	3352.8	3410.8	3480.6	3533.2	3552.2	3549.5	3526.9	3443.5
7.5°	2953.1	2973.9	2988.5	3049.2	3126.2	3245.9	3382.6	3495.1	3505.0	3529.5	3439.8
10°	2743.7	2747.4	2767.3	2825.2	2906.0	3028.3	3191.5	3388.1	3418.0	3507.8	3430.7
12.5°	2571.5	2574.1	2600.5	2662.9	2749.2	2872.4	3043.8	3271.2	3317.4	3480.6	3429.0
15°	2449.1	2459.1	2482.7	2547.9	2639.4	2761.8	2937.7	3185.1	3240.4	3470.6	3445.3
17.5°	2408.3	2419.2	2426.4	2473.6	2557.0	2676.7	2857.0	3128.9	3191.5	3476.1	3476.9
20°	2450.9	2459.1	2442.8	2454.5	2506.2	2613.2	2789.1	3080.9	3155.2	3482.4	3517.8
22.5°	2609.5	2613.2	2568.8	2517.2	2508.0	2566.9	2735.6	3042.8	3122.6	3499.7	3565.7
25°	2881.5	2875.1	2802.6	2691.2	2585.9	2558.8	2703.8	3019.3	3106.2	3517.8	3615.7
27.5°	3209.6	3218.7	3119.0	2956.7	2756.4	2613.2	2699.2	3009.3	3099.0	3530.5	3659.2
30°	3608.4	3621.1	3506.9	3302.9	3015.7	2747.4	2741.0	3007.5	3094.4	3522.3	3662.8
32.5°	4015.4	4030.8	3941.1	3730.7	3361.9	2972.1	2835.3	3027.3	3103.5	3494.2	3641.9
35°	4441.4	4463.1	4403.3	4223.0	3831.4	3296.6	3001.2	3088.1	3146.1	3491.5	3621.1
37.5°	5029.6	5049.6	4937.2	4746.0	4399.8	3731.6	3267.6	3202.4	3246.7	3535.0	3626.6
40°	5907.9	5905.3	5615.2	5322.4	5024.2	4284.6	3641.9	3409.0	3431.7	3666.4	3693.6
42.5°	6865.1	6860.6	6431.9	5986.9	5717.6	4965.3	4134.2	3766.1	3750.8	3908.4	3867.7
45°	7603.0	7602.0	7252.2	6750.9	6552.4	5746.6	4770.5	4262.9	4239.3	4301.9	4188.6
47.5°	7917.5	7922.9	7747.0	7394.4	7477.9	6803.5	5572.6	4982.6	4947.2	4921.8	4749.6
50°	7672.7	7683.6	7698.1	7629.2	8156.7	8223.8	6648.5	5996.8	5979.5	5866.2	5597.1
52.5°	6873.3	6928.5	7099.0	7317.4	8392.4	9587.1	8335.4	7256.7	7164.2	7043.7	6747.3
55°	5526.4	5587.1	5910.7	6441.0	8041.7	10482.7	10699.2	8881.0	8726.9	8367.1	7939.3
57.5°	3657.4	3751.6	4221.1	4895.5	7022.8	10626.8	13057.7	11135.2	10598.5	9613.4	9131.2
60°	2015.0	2105.5	2615.0	3225.9	5072.3	9914.3	14643.9	14070.2	13122.0	11006.6	10578.7
62.5°	1240.8	1289.8	1665.9	2234.4	3041.9	7825.0	14972.1	17758.4	16660.7	12800.3	12327.1
65°	988.0	1008.8	1192.8	1826.4	2180.9	4654.5	13912.4	20570.0	20203.9	14972.1	13892.6
67°	959.0	967.2	1054.2	1568.1	2055.7	2853.5	11655.6	21027.8	21399.4	16286.4	13941.5
67.5°	965.3	974.4	1056.9	1496.6	2052.1	2622.2	10877.9	20847.4	21316.9	16390.6	13724.8
70°	930.9	959.0	1210.0	1495.5	1951.5	2178.9	6514.4	18063.0	18551.4	15229.4	11645.5
72.5°	330.0	331.7	523.1	1210.0	2122.0	2202.5	3271.2	13241.6	13603.5	11650.1	8396.0
75°	195.8	166.7	174.0	344.3	2027.7	2139.1	1887.1	8461.4	8596.4	6675.7	4252.0
77.5°	135.1	117.8	121.5	152.3	772.3	2109.2	1499.1	4412.4	4268.3	2341.2	905.5
80°	77.0	68.0	72.5	133.3	281.1	1967.8	1414.1	1789.2	1525.5	397.0	250.2
82.5°	40.8	34.4	41.7	109.7	195.8	1226.3	1416.8	864.7	685.3	134.2	170.5
85°	14.5	11.8	20.0	75.3	130.6	376.2	1313.4	726.9	571.0	65.2	129.6
87.5°	2.7	2.7	8.2	30.8	52.6	115.2	776.9	431.5	289.1	39.0	88.8
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°	3427.1	3427.1	3427.1	3427.1	3427.1	3427.1	3427.1	3427.1	3427.1	3427.1	3427.1
2.5°	3416.2	3377.3	3324.8	3260.4	3184.3	3117.1	3067.2	3015.7	3004.7	2986.6	2983.9
5°	3393.6	3326.5	3196.1	3046.4	2886.9	2742.9	2625.8	2521.6	2475.4	2435.5	2431.0
7.5°	3360.0	3259.4	3037.4	2796.3	2547.1	2320.4	2128.3	1992.3	1867.2	1807.3	1798.3
10°	3321.1	3176.9	2858.8	2524.3	2179.9	1859.9	1574.4	1335.1	1190.2	1103.9	1093.1
12.5°	3284.9	3096.3	2676.7	2242.4	1784.7	1356.9	989.8	761.4	609.1	547.5	540.2
15°	3267.6	3031.1	2506.2	1954.2	1371.4	863.8	541.2	418.8	368.9	354.4	353.5
17.5°	3265.8	2975.7	2339.5	1656.1	960.8	502.1	352.6	321.8	311.8	308.2	308.2
20°	3264.8	2923.1	2172.6	1346.9	610.0	334.5	293.7	286.5	279.1	274.7	274.7
22.5°	3274.8	2876.0	1998.7	1031.5	384.3	271.0	258.3	251.1	242.0	235.7	234.8
25°	3284.9	2839.7	1821.1	734.2	278.3	235.7	223.0	213.0	200.3	192.2	191.2
27.5°	3286.6	2794.5	1630.5	491.2	232.9	205.7	189.4	174.0	159.5	151.4	150.4
30°	3259.4	2718.4	1419.4	331.7	205.7	178.5	156.8	140.5	126.8	120.5	120.5
32.5°	3206.0	2624.1	1187.4	250.2	183.1	153.2	129.6	114.1	105.1	102.3	101.5
35°	3157.9	2522.6	949.0	212.1	164.1	129.6	106.1	96.0	90.6	89.7	88.8
37.5°	3129.8	2441.0	725.2	192.2	146.0	108.8	89.7	82.5	79.8	77.9	78.8
40°	3151.6	2373.0	535.7	175.8	127.9	90.6	76.2	72.5	69.8	68.9	68.9
42.5°	3246.7	2361.2	397.9	161.3	110.6	75.3	66.2	63.5	61.6	60.7	61.6
45°	3497.0	2433.8	309.1	147.7	93.3	63.5	56.2	55.2	54.4	54.4	54.4
47.5°	3873.1	2583.2	257.5	132.3	77.9	54.4	48.9	48.1	47.1	48.1	48.1
50°	4510.3	2857.0	230.2	116.9	64.4	46.2	41.7	41.7	41.7	41.7	42.6
52.5°	5479.3	3395.4	212.1	101.5	52.6	39.0	35.4	35.4	36.3	36.3	37.1
55°	6558.8	4109.7	195.8	86.1	44.5	32.7	29.0	29.9	30.8	31.6	31.6
57.5°	7729.9	4901.0	182.1	70.7	38.0	26.3	24.5	25.3	26.3	28.1	28.1
60°	9143.0	5757.5	162.2	55.2	31.6	20.9	19.0	20.9	23.6	25.3	26.3
62.5°	10694.8	6585.9	136.9	43.4	26.3	16.3	15.4	19.0	22.6	24.5	25.3
65°	11755.2	6846.0	105.1	35.4	20.0	11.8	12.7	17.3	21.8	24.5	24.5
67°	11325.6	6207.1	86.1	29.9	16.3	9.1	11.8	17.3	21.8	23.6	24.5
67.5°	11027.3	5957.0	82.5	29.0	15.4	9.1	11.8	17.3	21.8	24.5	24.5
70°	8972.6	4474.9	68.9	21.8	12.7	8.2	10.0	16.3	20.9	23.6	23.6
72.5°	6234.4	2759.2	61.6	15.4	10.9	7.2	9.1	15.4	20.0	22.6	23.6
75°	2963.9	998.8	52.6	11.8	10.0	6.3	8.2	15.4	20.0	22.6	22.6
77.5°	604.5	232.0	42.6	10.0	8.2	6.3	7.2	14.5	19.0	21.8	21.8
80°	198.6	89.7	31.6	9.1	8.2	6.3	7.2	13.5	19.0	20.9	21.8
82.5°	143.2	45.4	20.9	9.1	8.2	6.3	6.3	13.5	18.1	20.9	20.9
85°	109.7	31.6	13.5	9.1	8.2	6.3	6.3	12.7	17.3	20.0	20.0
87.5°	72.5	12.7	10.9	9.1	8.2	6.3	6.3	12.7	16.3	19.0	20.0
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)