

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: P531831

Luminaire Tested: **GLAN-SA7A-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7A-827-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13983 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

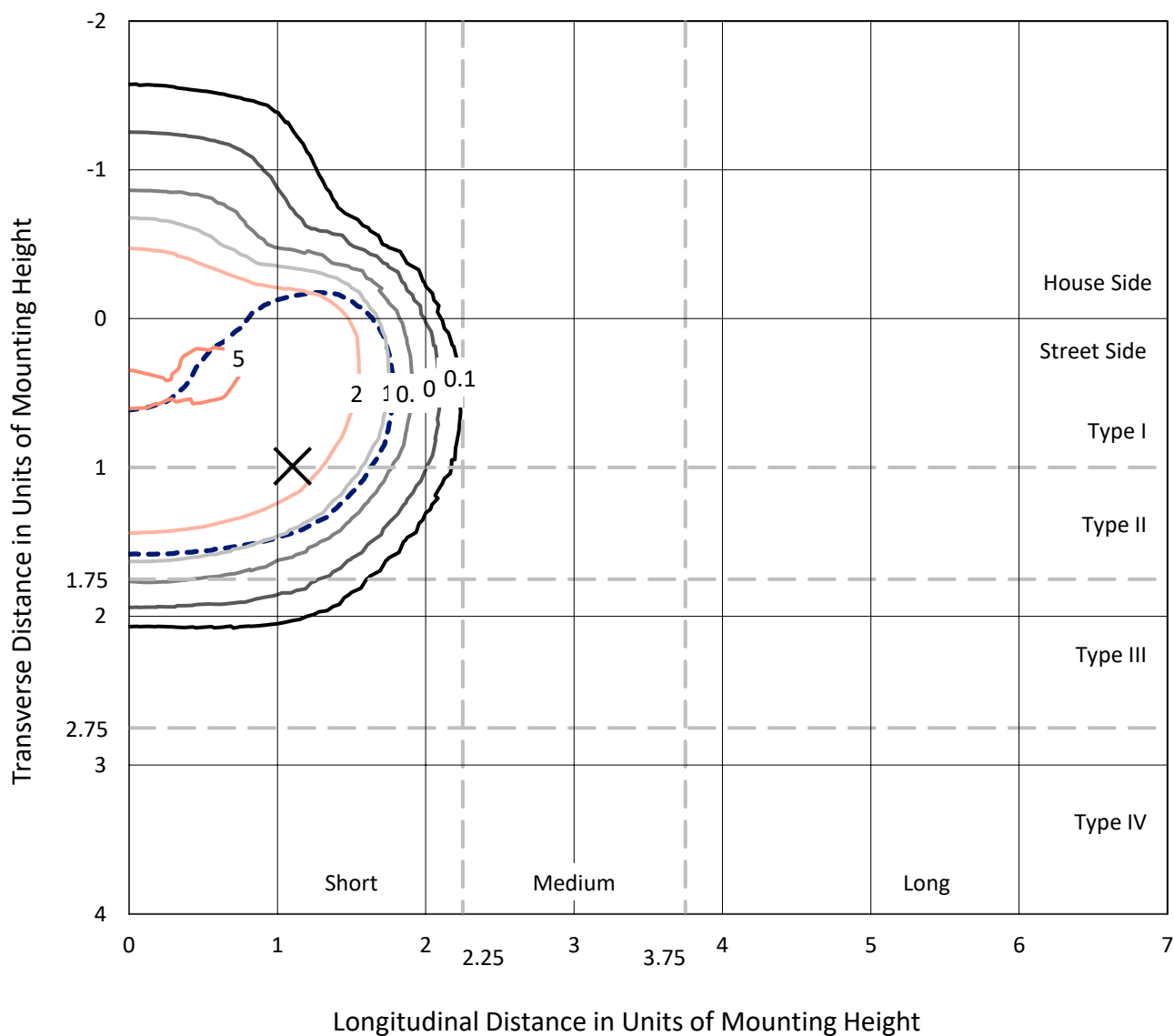
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

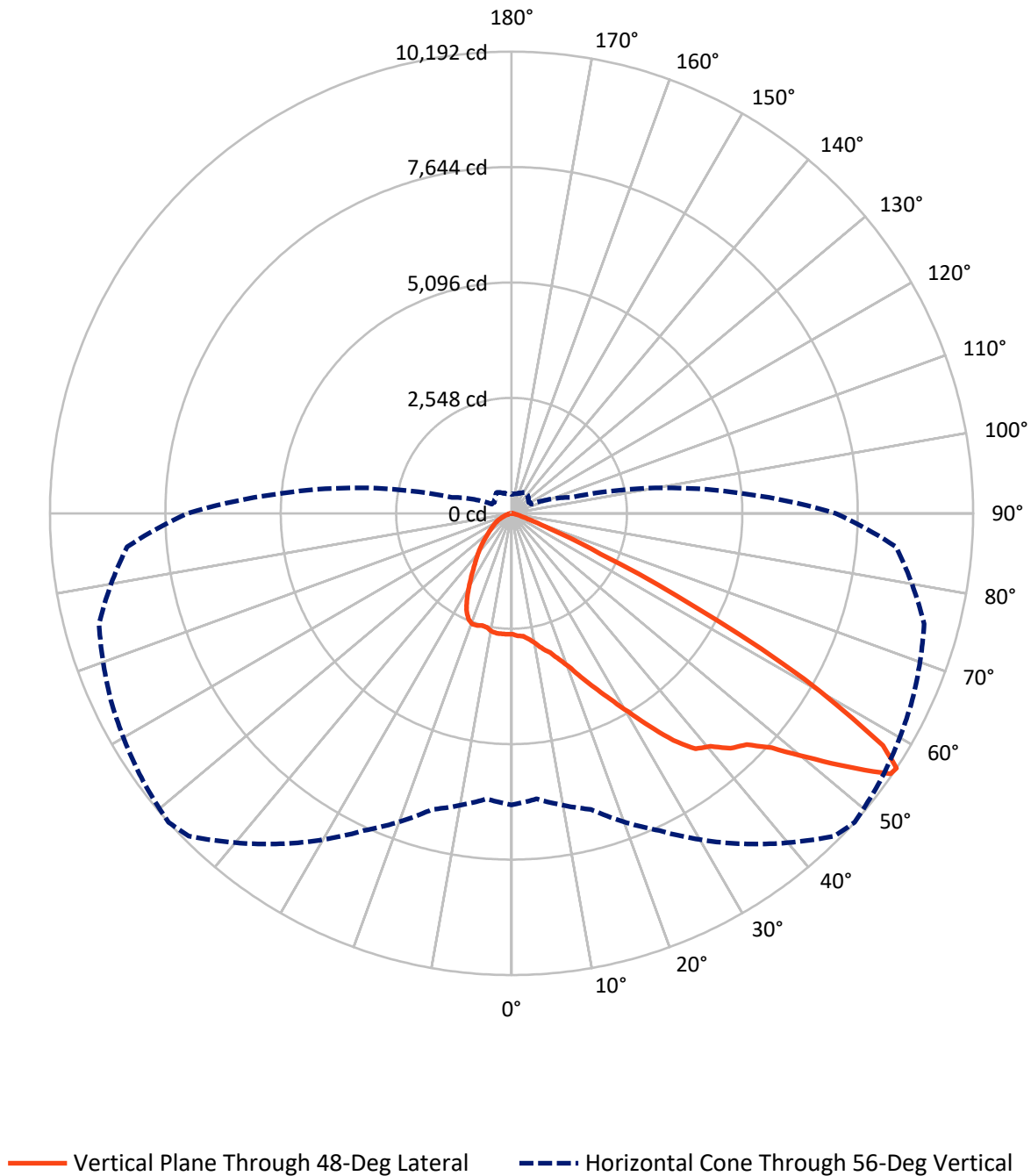
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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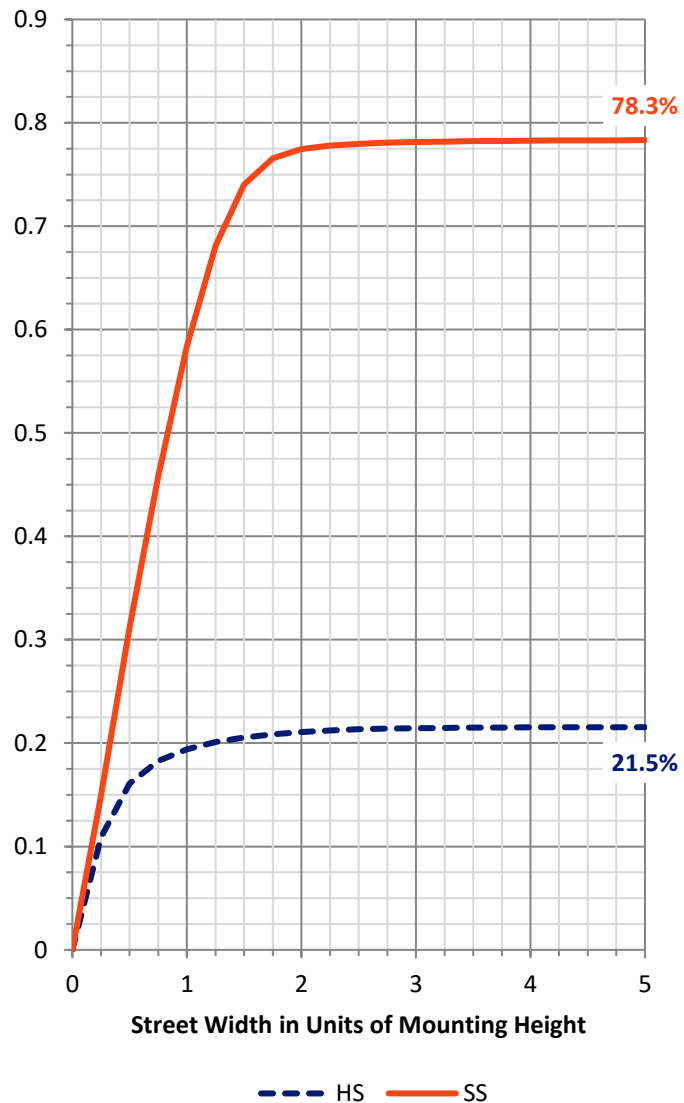
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3041.0	0.0	3041.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	10942.0	0.0	10942.0
	% Fixture	78.3	0.0	78.3
Total	Lumens	13983.0	0.0	13983.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.2	1.9
10°-20°	831.4	5.9
20°-30°	1508.0	10.8
30°-40°	2368.8	16.9
40°-50°	3455.7	24.7
50°-60°	4163.5	29.8
60°-70°	1219.0	8.7
70°-80°	154.6	1.1
80°-90°	21.7	0.2
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°	13983.0	100.0
0°-180°	13983.0	100.0

Coefficient of Utilization



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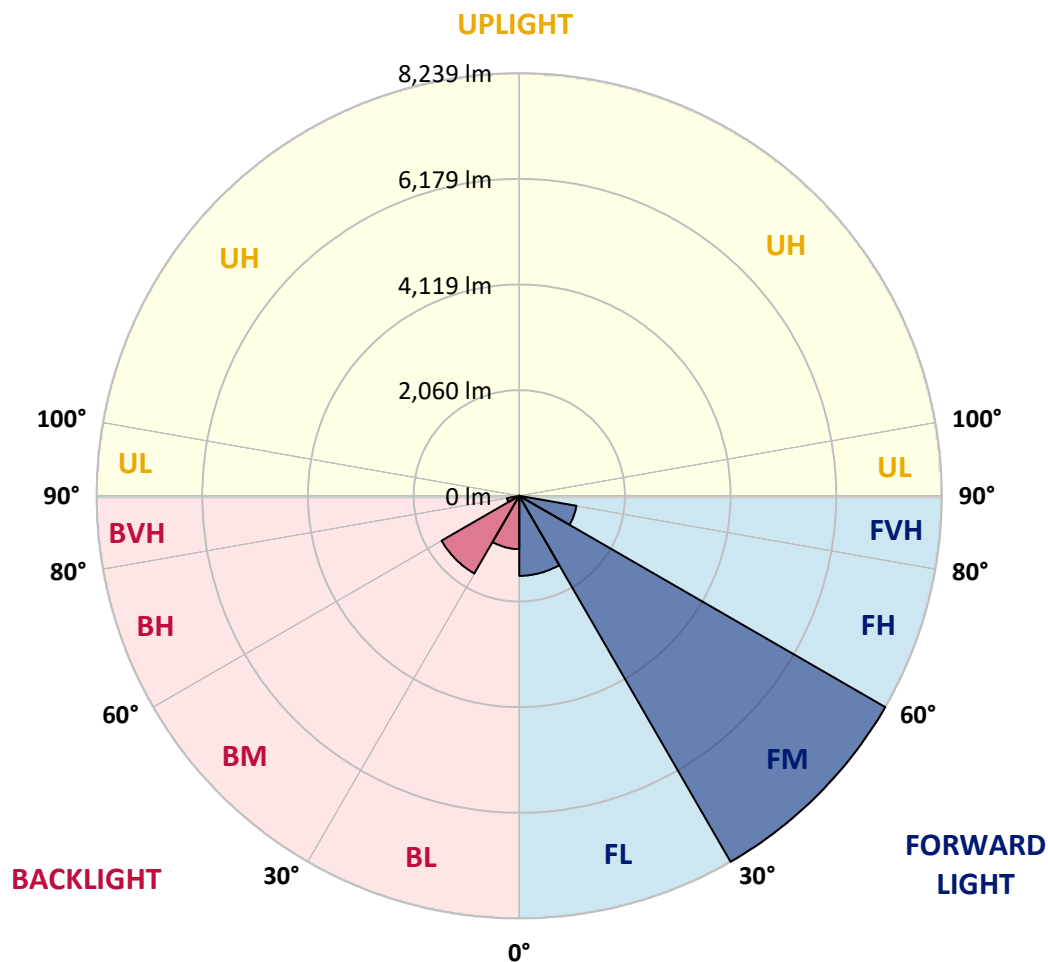
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1560.2	11.2			
FM	(30°-60°)	8238.8	58.9			
FH	(60°-80°)	1132.0	8.1			G1/1800
FVH	(80°-90°)	10.9	0.1			G1/100
BL	(0°-30°)	1039.4	7.4	B3/2500		
BM	(30°-60°)	1749.2	12.5	B2/2500		
BH	(60°-80°)	241.6	1.7	B1/500		G1/500
BVH	(80°-90°)	10.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8
2.5°	2719.1	2706.4	2706.4	2686.0	2708.9	2698.8	2706.4	2680.9	2706.4	2668.2	2698.8
5°	2731.9	2734.4	2724.2	2737.0	2737.0	2752.2	2726.8	2749.7	2762.4	2734.4	2721.7
7.5°	2798.1	2803.2	2800.6	2790.4	2810.8	2808.2	2805.7	2787.9	2793.0	2782.8	2767.5
10°	2927.9	2925.4	2938.1	2912.6	2897.4	2915.2	2920.3	2892.3	2871.9	2864.3	2815.9
12.5°	3116.3	3085.8	3067.9	3042.5	3050.1	3024.7	3070.5	3022.1	3011.9	2966.1	2917.7
15°	3269.1	3264.0	3266.5	3225.8	3180.0	3190.1	3190.1	3164.7	3149.4	3093.4	3024.7
17.5°	3582.2	3475.3	3498.2	3447.3	3409.1	3406.6	3383.6	3388.7	3348.0	3230.9	3126.5
20°	3826.6	3780.8	3745.2	3658.6	3600.1	3617.9	3607.7	3582.2	3569.5	3416.7	3269.1
22.5°	4045.6	4060.9	4002.3	3979.4	3897.9	3905.6	3925.9	3903.0	3806.3	3648.4	3429.5
25°	4353.7	4335.8	4256.9	4228.9	4152.5	4180.5	4259.5	4241.6	4180.5	3895.4	3554.2
27.5°	4717.7	4656.6	4671.9	4544.6	4470.8	4549.7	4643.9	4733.0	4559.9	4185.6	3701.9
30°	4974.9	4911.2	4906.2	4901.1	4883.2	4974.9	5084.4	5165.8	5025.8	4475.9	3946.3
32.5°	5102.2	5117.5	5160.8	5145.5	5300.8	5489.2	5603.8	5720.9	5545.2	4949.4	4269.7
35°	5440.8	5344.1	5440.8	5451.0	5611.4	6011.1	6156.2	6436.3	6393.0	5619.0	4664.3
37.5°	5639.4	5631.8	5644.5	5741.2	5896.5	6390.5	6596.7	6813.1	6731.6	6021.3	5155.7
40°	5967.8	5988.2	5985.7	6059.5	6230.1	6675.6	6759.6	6935.3	6943.0	6578.9	5878.7
42.5°	6494.9	6413.4	6359.9	6436.3	6675.6	6922.6	7090.6	7055.0	7307.0	7256.1	6808.0
45°	6968.4	7016.8	6937.9	7065.2	7151.7	7284.1	7279.0	7355.4	7676.2	7918.1	7508.2
47.5°	7411.4	7442.0	7480.2	7566.7	7755.1	7775.5	7732.2	7699.1	8142.1	8391.6	8050.5
50°	7676.2	7704.2	7882.4	8037.7	8389.1	8434.9	8460.4	8376.4	8676.8	8704.8	8562.2
52.5°	7604.9	7635.5	7885.0	8396.7	8956.8	9376.9	9300.6	9158.0	9140.2	9249.6	9035.8
55°	6973.5	6945.5	7289.2	8086.1	9135.1	10143.3	10153.5	10003.3	9715.6	9641.7	8964.5
56°	6436.3	6326.8	6764.7	7727.1	8905.9	10077.1	10191.7	10031.3	9761.4	9430.4	8524.0
57.5°	5272.8	5377.2	5812.5	6609.4	8114.1	9601.0	9667.2	9629.0	9425.3	8870.3	7500.5
60°	2907.5	3090.8	3475.3	4450.4	5776.9	7368.1	7421.6	7732.2	7770.4	6792.7	5160.8
62.5°	1234.8	1214.4	1614.2	2332.1	3289.4	4447.9	4547.2	4865.4	4924.0	3915.8	2589.3
65°	501.6	529.6	730.7	1173.7	1738.9	2026.6	2166.7	2271.0	2464.5	1616.7	954.8
67.5°	331.0	328.4	430.3	669.6	936.9	903.8	903.8	954.8	883.5	659.4	412.5
70°	236.8	244.4	308.1	463.4	583.0	432.8	415.0	397.2	450.6	435.4	333.5
72.5°	155.3	165.5	206.2	277.5	303.0	236.8	236.8	285.2	371.7	351.3	272.4
75°	101.8	104.4	127.3	160.4	150.2	122.2	134.9	191.0	269.9	259.7	193.5
77.5°	68.7	71.3	86.6	104.4	84.0	68.7	73.8	96.7	132.4	132.4	101.8
80°	25.5	28.0	35.6	33.1	38.2	48.4	53.5	66.2	78.9	78.9	68.7
82.5°	0.0	2.5	7.6	17.8	28.0	38.2	43.3	50.9	58.6	66.2	63.7
85°	0.0	2.5	7.6	12.7	20.4	22.9	25.5	17.8	15.3	15.3	12.7
87.5°	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5	5.1	2.5	2.5
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°	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8
2.5°	2670.8	2668.2	2668.2	2660.6	2675.9	2668.2	2673.3	2670.8	2637.7	2663.1	2645.3
5°	2698.8	2716.6	2688.6	2683.5	2663.1	2670.8	2670.8	2645.3	2668.2	2665.7	2660.6
7.5°	2770.1	2739.5	2708.9	2678.4	2673.3	2665.7	2637.7	2627.5	2645.3	2624.9	2655.5
10°	2800.6	2805.7	2759.9	2719.1	2680.9	2627.5	2589.3	2566.4	2538.4	2568.9	2586.7
12.5°	2940.6	2889.7	2810.8	2747.1	2617.3	2563.8	2525.6	2515.5	2563.8	2574.0	2556.2
15°	2989.0	2981.4	2879.5	2737.0	2602.0	2538.4	2546.0	2525.6	2530.7	2505.3	2510.4
17.5°	3088.3	3001.7	2882.1	2703.9	2599.5	2584.2	2538.4	2456.9	2411.1	2390.7	2408.5
20°	3197.8	3113.8	2940.6	2716.6	2622.4	2581.6	2431.4	2332.1	2237.9	2187.0	2189.6
22.5°	3294.5	3190.1	2915.2	2721.7	2642.8	2474.7	2294.0	2097.9	1980.8	1901.9	1904.4
25°	3411.6	3264.0	2925.4	2731.9	2589.3	2304.1	2044.4	1853.5	1713.5	1660.0	1677.8
27.5°	3477.8	3309.8	2981.4	2754.8	2449.3	2062.3	1782.2	1604.0	1522.5	1497.1	1494.5
30°	3676.4	3411.6	3050.1	2708.9	2215.0	1802.6	1542.9	1433.4	1354.5	1331.6	1336.7
32.5°	3971.8	3597.5	3139.2	2589.3	1975.7	1570.9	1387.6	1306.1	1232.3	1189.0	1183.9
35°	4218.7	3915.8	3233.4	2403.4	1698.2	1392.7	1278.1	1176.3	1064.2	1015.9	1003.1
37.5°	4689.7	4274.7	3213.1	2123.4	1433.4	1260.3	1161.0	1036.2	939.5	873.3	865.6
40°	5316.1	4694.8	3113.8	1782.2	1237.4	1143.2	1036.2	916.6	796.9	740.9	735.8
42.5°	6077.3	5209.1	2933.0	1435.9	1041.3	1026.0	929.3	791.8	684.9	644.1	646.7
45°	6696.0	5649.6	2749.7	1153.3	896.2	911.5	827.5	697.6	623.8	590.7	590.7
47.5°	7245.9	5947.5	2551.1	952.2	761.3	796.9	723.1	646.7	583.0	557.6	552.5
50°	7775.5	6250.4	2352.5	771.4	649.2	684.9	677.2	616.1	565.2	534.7	537.2
52.5°	8106.5	6298.8	2100.5	631.4	567.8	608.5	634.0	577.9	521.9	504.1	499.0
55°	7701.7	5675.0	1629.4	519.4	481.2	534.7	583.0	519.4	476.1	445.6	443.0
56°	7156.8	5074.2	1362.1	478.6	455.7	514.3	565.2	496.5	448.1	430.3	417.5
57.5°	6059.5	4152.5	1005.7	425.2	422.6	478.6	537.2	473.6	417.5	402.3	402.3
60°	3778.3	2337.2	608.5	356.4	366.6	425.2	483.7	422.6	371.7	371.7	379.4
62.5°	1721.1	972.6	369.2	303.0	315.7	366.6	430.3	381.9	353.9	381.9	387.0
65°	585.6	420.1	267.3	241.9	249.5	303.0	369.2	387.0	384.4	402.3	412.5
67.5°	328.4	269.9	224.0	201.1	196.0	224.0	303.0	387.0	371.7	364.1	369.2
70°	277.5	229.1	198.6	178.2	170.6	180.8	234.2	292.8	262.2	254.6	249.5
72.5°	224.0	191.0	173.1	160.4	137.5	117.1	106.9	112.0	124.8	132.4	145.1
75°	157.9	145.1	145.1	129.8	99.3	73.8	58.6	48.4	33.1	22.9	25.5
77.5°	89.1	89.1	91.7	78.9	63.7	48.4	35.6	25.5	12.7	5.1	2.5
80°	61.1	66.2	71.3	63.7	53.5	43.3	30.6	17.8	7.6	0.0	0.0
82.5°	61.1	68.7	73.8	63.7	53.5	40.7	30.6	17.8	7.6	2.5	0.0
85°	12.7	15.3	17.8	20.4	30.6	30.6	22.9	15.3	7.6	2.5	0.0
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	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)