

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: P321055

Luminaire Tested: **GAN-SA1D-760-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-760-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8334 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

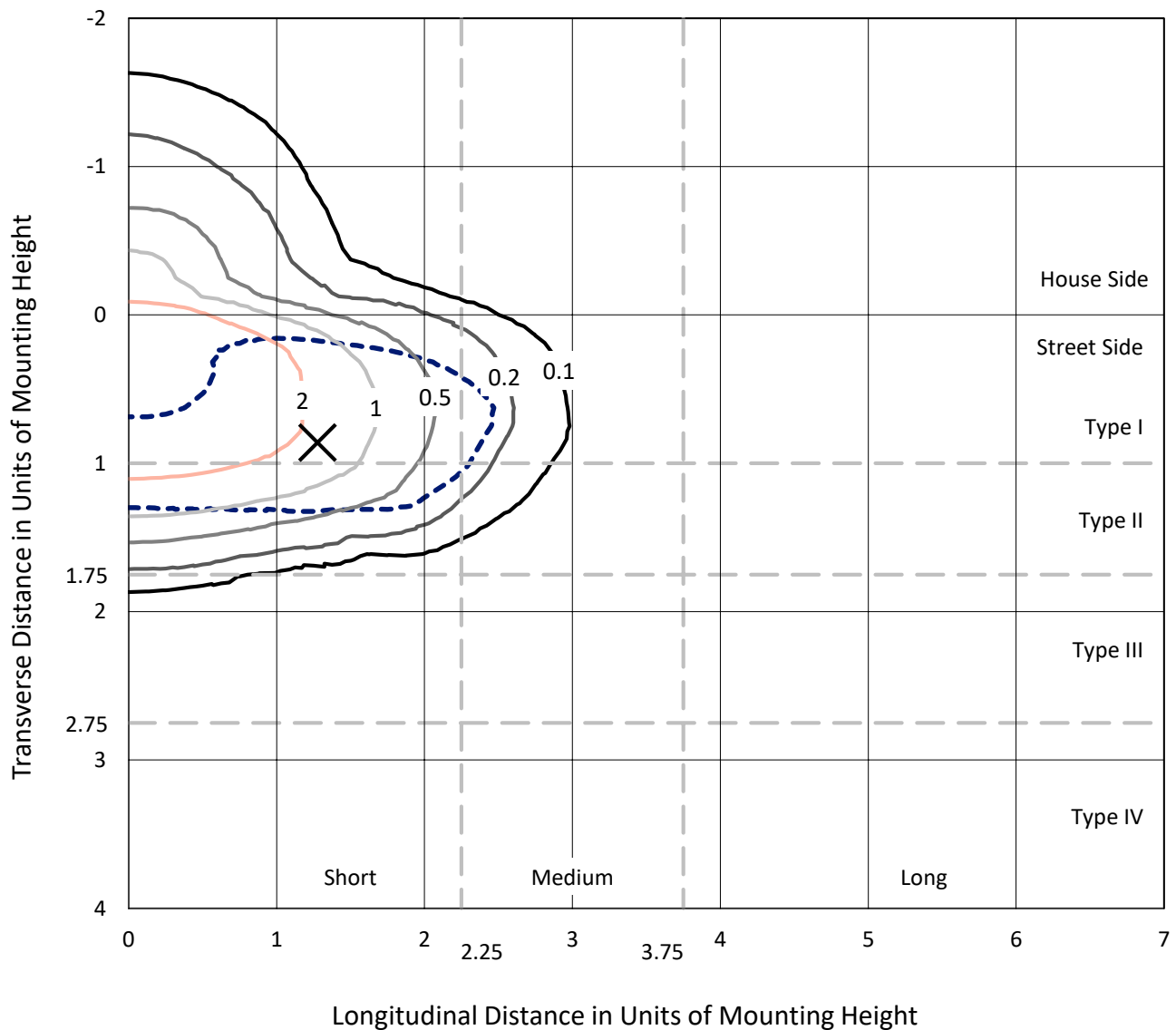
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

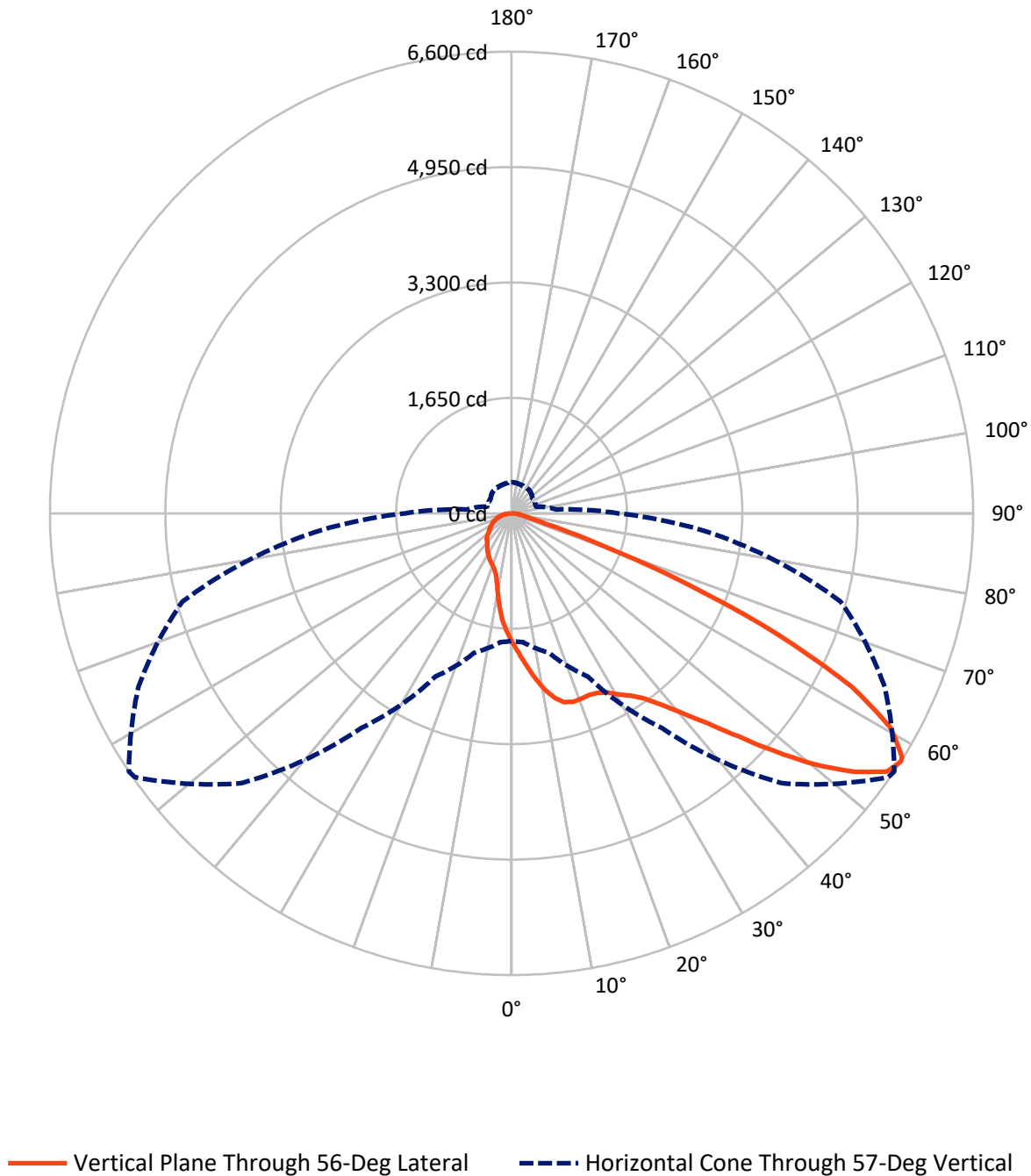
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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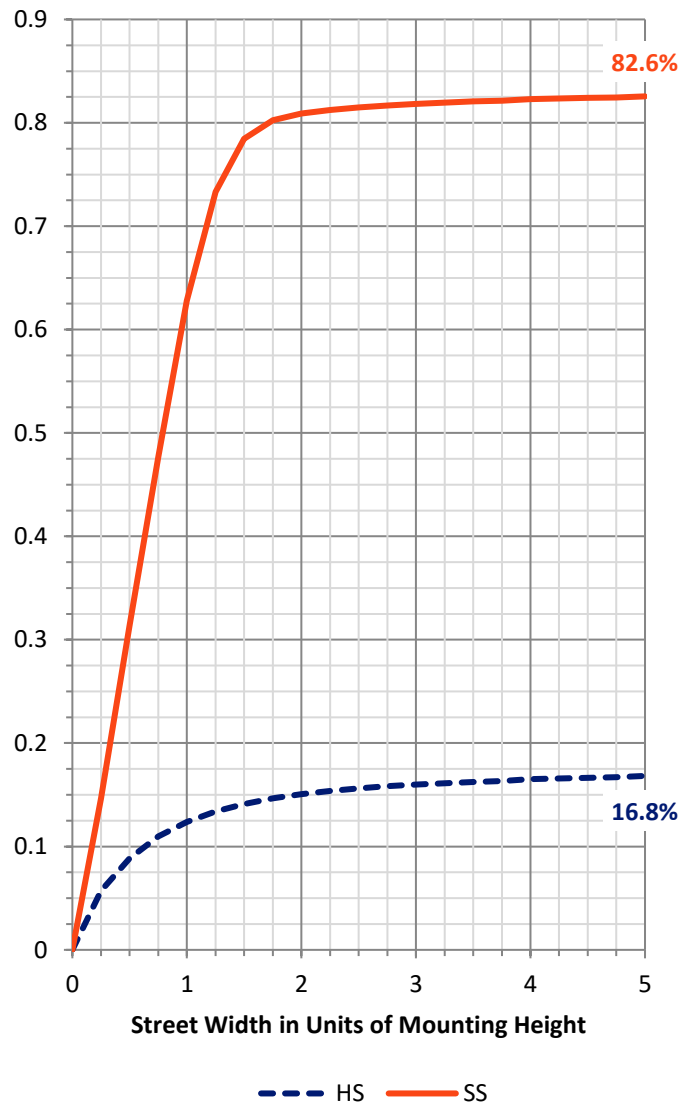
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1436.6	0.0	1436.6
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	6897.4	0.0	6897.4
	% Fixture	82.8	0.0	82.8
Total	Lumens	8334.0	0.0	8334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.6	2.1
10°-20°	499.2	6.0
20°-30°	813.1	9.8
30°-40°	1215.6	14.6
40°-50°	1843.7	22.1
50°-60°	2066.5	24.8
60°-70°	1220.6	14.6
70°-80°	399.9	4.8
80°-90°	98.8	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°	8334.0	100.0
0°-180°	8334.0	100.0

Coefficient of Utilization



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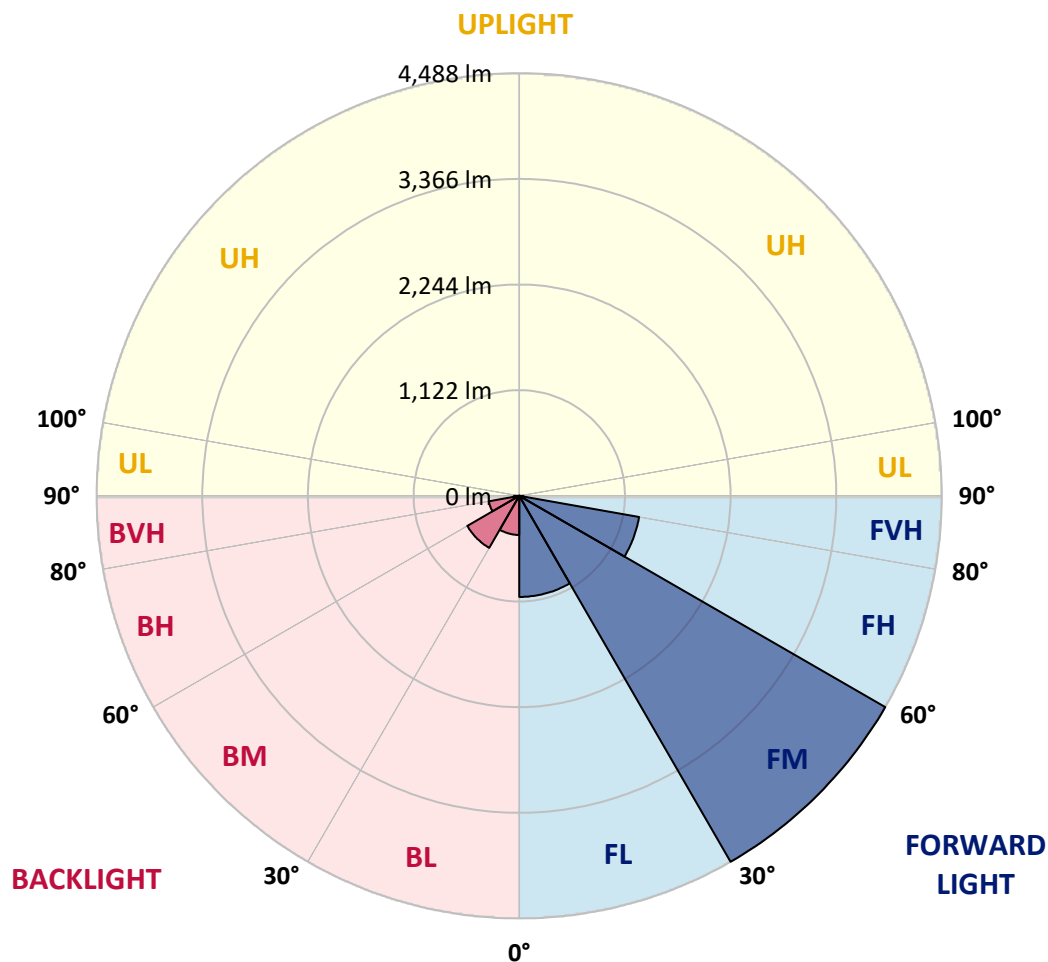
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1073.5	12.9			
FM	(30°-60°)	4488.1	53.9			
FH	(60°-80°)	1292.2	15.5			G1/1800
FVH	(80°-90°)	43.5	0.5			G1/100
BL	(0°-30°)	415.4	5.0	B1/500		
BM	(30°-60°)	637.7	7.7	B1/1000		
BH	(60°-80°)	328.2	3.9	B1/500		G1/500
BVH	(80°-90°)	55.3	0.7			G1/100
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°	56°	65°	75°	85°
0°	1848.5	1848.5	1848.5	1848.5	1848.5	1848.5	1848.5	1848.5	1848.5	1848.5	1848.5
2.5°	2122.6	2142.1	2133.5	2103.7	2080.8	2048.4	2012.3	2001.4	1963.3	1920.7	1869.4
5°	2458.5	2448.8	2434.8	2388.4	2339.4	2282.4	2191.9	2177.6	2092.8	1996.3	1894.3
7.5°	2649.9	2649.0	2640.7	2613.5	2568.8	2494.3	2385.2	2368.3	2240.3	2085.1	1927.0
10°	2622.1	2620.1	2633.8	2662.2	2675.6	2660.2	2568.2	2551.3	2394.1	2183.3	1964.8
12.5°	2464.3	2465.4	2487.5	2547.0	2628.1	2725.5	2710.6	2702.3	2553.6	2294.4	2010.6
15°	2341.4	2344.0	2361.4	2413.3	2508.9	2685.7	2797.1	2799.9	2708.0	2417.0	2064.2
17.5°	2287.6	2293.0	2301.0	2337.4	2425.0	2606.3	2817.7	2833.2	2843.2	2544.2	2115.7
20°	2304.7	2309.9	2312.2	2335.4	2407.3	2558.2	2803.4	2831.2	2946.9	2663.9	2167.3
22.5°	2381.8	2384.9	2386.4	2392.4	2448.2	2572.0	2793.9	2823.1	3021.9	2771.3	2206.2
25°	2509.5	2507.2	2498.1	2490.3	2527.9	2626.4	2815.7	2843.5	3082.9	2868.7	2231.7
27.5°	2662.5	2659.6	2641.8	2620.6	2642.1	2711.2	2878.4	2900.5	3137.6	2959.8	2244.6
30°	2846.1	2838.6	2805.1	2779.9	2788.2	2838.3	2981.8	3001.9	3222.1	3063.2	2257.2
32.5°	3058.3	3050.3	3001.9	2960.0	2960.0	3001.9	3088.4	3105.0	3293.7	3180.0	2277.5
35°	3324.1	3314.0	3251.0	3180.9	3161.1	3182.3	3233.6	3245.3	3422.6	3327.2	2314.5
37.5°	3637.4	3623.9	3542.3	3448.4	3405.1	3404.0	3440.9	3465.0	3628.5	3520.5	2377.2
40°	3951.6	3942.1	3870.8	3796.9	3712.2	3684.9	3741.9	3749.4	3897.8	3760.6	2457.4
42.5°	4194.5	4192.8	4179.6	4189.3	4102.5	4047.5	4092.2	4098.2	4226.5	4020.3	2542.7
45°	4322.8	4325.6	4389.5	4531.0	4563.1	4523.0	4545.0	4546.8	4602.3	4282.4	2620.9
47.5°	4220.0	4234.9	4396.4	4712.9	4975.5	5108.7	5072.0	5093.2	4966.6	4507.5	2682.2
50°	3819.3	3837.6	4112.6	4631.8	5168.0	5675.5	5656.3	5651.4	5260.5	4672.5	2715.5
52.5°	3322.9	3337.2	3564.1	4210.5	5026.8	5988.8	6165.0	6139.8	5521.7	4795.9	2721.8
55°	2567.1	2589.4	2806.8	3369.6	4455.7	5869.1	6539.0	6516.4	5759.7	4860.7	2714.3
57°	1825.0	1848.5	2064.4	2571.7	3748.2	5454.7	6576.3	6600.3	5888.3	4871.5	2722.6
57.5°	1628.5	1652.6	1866.5	2359.2	3527.7	5304.9	6544.2	6584.3	5911.5	4869.8	2727.2
60°	820.0	829.2	965.5	1316.9	2230.0	4288.7	6125.7	6229.1	5932.4	4785.6	2747.0
62.5°	509.8	503.2	498.9	606.6	1084.9	2844.0	5262.2	5461.3	5532.3	4581.7	2699.1
65°	448.2	435.9	388.7	380.1	479.2	1381.4	3962.8	4210.5	4677.4	4260.3	2585.1
67.5°	421.0	409.0	355.7	323.6	323.9	547.6	2460.3	2739.2	3643.7	3717.0	2316.2
70°	393.0	382.1	332.2	294.4	275.8	303.3	1131.9	1343.5	2375.2	2921.7	1935.8
72.5°	356.9	349.4	302.2	263.2	243.4	227.1	433.3	511.8	1375.1	1962.2	1344.4
75°	319.1	312.2	271.8	234.6	210.5	178.7	244.0	262.9	698.6	1003.9	661.9
77.5°	277.5	273.5	241.7	207.4	188.2	148.1	172.7	181.9	299.6	430.5	331.9
80°	220.8	228.6	211.4	184.7	167.0	118.6	122.3	128.3	174.4	210.2	188.5
82.5°	143.8	157.2	165.5	150.1	137.5	93.4	87.9	90.5	113.7	128.3	81.9
85°	59.9	67.3	108.8	98.2	91.4	68.2	59.0	60.1	70.5	73.0	33.5
87.5°	26.6	28.4	47.8	45.0	38.7	23.5	25.2	27.5	37.5	35.5	12.9
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°	1848.5	1848.5	1848.5	1848.5	1848.5	1848.5	1848.5	1848.5	1848.5	1848.5	1848.5
2.5°	1850.2	1826.1	1784.9	1739.4	1702.1	1672.3	1642.3	1621.7	1597.6	1584.7	1578.1
5°	1851.6	1804.4	1717.6	1628.5	1548.9	1476.2	1406.8	1353.6	1303.7	1276.8	1269.4
7.5°	1857.7	1786.6	1646.3	1499.6	1358.2	1229.0	1129.3	1066.9	1021.9	1001.9	996.1
10°	1862.5	1765.7	1558.1	1341.0	1148.5	1017.6	940.3	905.3	889.9	887.3	884.7
12.5°	1874.0	1744.2	1465.3	1175.4	985.5	895.0	868.1	865.8	870.1	876.4	876.4
15°	1892.0	1723.0	1359.3	1033.4	881.9	850.1	855.5	868.1	879.9	889.6	891.0
17.5°	1905.2	1697.0	1245.3	919.7	826.6	835.2	854.6	872.4	884.4	893.9	894.7
20°	1914.6	1656.6	1123.6	832.9	794.8	821.4	845.8	861.5	869.8	879.3	880.7
22.5°	1909.8	1602.5	1015.6	770.7	769.0	801.4	824.6	843.5	837.2	828.0	834.0
25°	1886.3	1528.0	904.5	724.3	741.8	774.5	803.1	790.5	769.3	765.3	767.6
27.5°	1844.5	1432.9	801.7	681.4	710.3	749.5	747.8	735.2	727.8	722.6	725.8
30°	1799.5	1329.8	711.7	643.8	675.4	707.7	701.1	700.8	693.4	685.1	689.1
32.5°	1755.1	1226.1	640.4	612.9	649.0	653.3	667.6	671.9	657.3	639.8	638.7
35°	1716.5	1128.2	586.3	584.8	617.2	617.8	638.7	632.7	596.3	578.3	578.3
37.5°	1687.5	1030.5	545.0	559.6	575.4	590.3	600.9	576.0	570.0	559.9	559.6
40°	1674.9	944.6	519.3	540.5	545.9	564.8	537.6	547.3	550.2	545.0	545.0
42.5°	1661.7	869.8	496.9	525.8	525.0	522.4	508.7	521.3	532.7	533.0	532.1
45°	1648.6	805.4	477.2	494.6	506.7	478.9	481.5	494.9	511.0	516.7	516.7
47.5°	1634.0	754.4	459.1	461.7	480.3	461.7	459.7	470.0	488.9	498.1	500.1
50°	1601.9	708.6	438.5	432.8	437.9	444.2	445.9	450.8	471.7	486.3	489.8
52.5°	1557.5	667.6	412.1	406.1	406.1	429.9	437.9	439.4	457.1	474.6	478.0
55°	1520.5	641.6	384.9	383.8	382.6	414.7	428.5	430.8	443.1	456.8	458.5
57°	1523.1	639.6	364.0	365.2	364.9	399.3	419.6	424.5	430.8	442.5	444.5
57.5°	1524.6	641.0	359.4	360.0	359.7	395.0	417.0	422.5	427.3	439.6	441.6
60°	1546.0	644.7	340.8	334.5	336.0	372.0	402.4	409.3	412.4	428.8	431.3
62.5°	1514.2	628.1	325.9	310.8	310.8	348.0	382.1	393.0	397.8	419.9	424.2
65°	1422.0	581.4	308.5	283.8	286.7	323.9	357.7	375.5	382.9	410.4	415.0
67.5°	1279.7	527.3	289.8	259.8	262.6	298.7	332.5	351.7	363.5	400.1	403.8
70°	1094.4	461.1	264.6	234.3	237.7	271.2	302.7	324.5	342.0	390.4	391.5
72.5°	806.8	378.1	229.4	206.2	209.9	239.2	272.7	297.9	321.4	366.0	365.5
75°	479.7	295.6	190.5	177.9	180.4	207.6	245.5	276.1	311.3	356.6	362.0
77.5°	291.0	222.5	155.2	148.9	152.1	179.9	226.0	258.6	307.0	336.2	334.5
80°	175.9	159.0	124.0	120.0	123.2	153.8	209.1	245.5	268.4	287.3	287.3
82.5°	91.9	97.1	91.1	87.9	92.2	124.9	190.2	214.2	237.1	203.6	190.2
85°	37.5	50.7	55.3	55.0	57.6	86.5	164.1	183.3	152.9	145.2	148.6
87.5°	12.6	21.5	26.9	23.2	24.3	54.4	113.7	88.5	105.1	73.3	69.6
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)