

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: P286947

Luminaire Tested: **USSL-C027-D-U-T2-AP-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-4)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-C027-D-U-T2-AP-7050
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K LEDS AND TYPE II OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14250.3 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

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: 28.75 FT



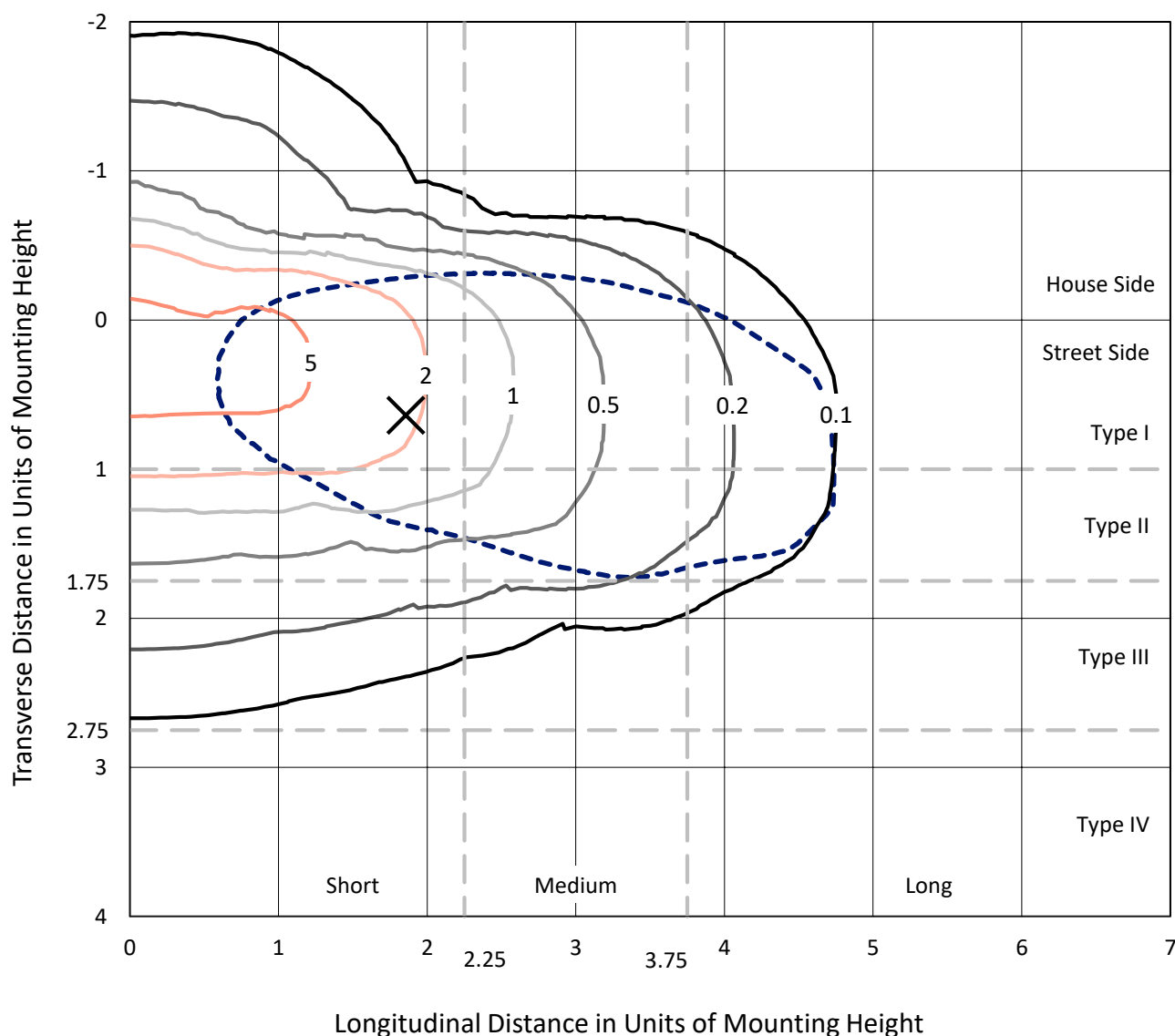
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

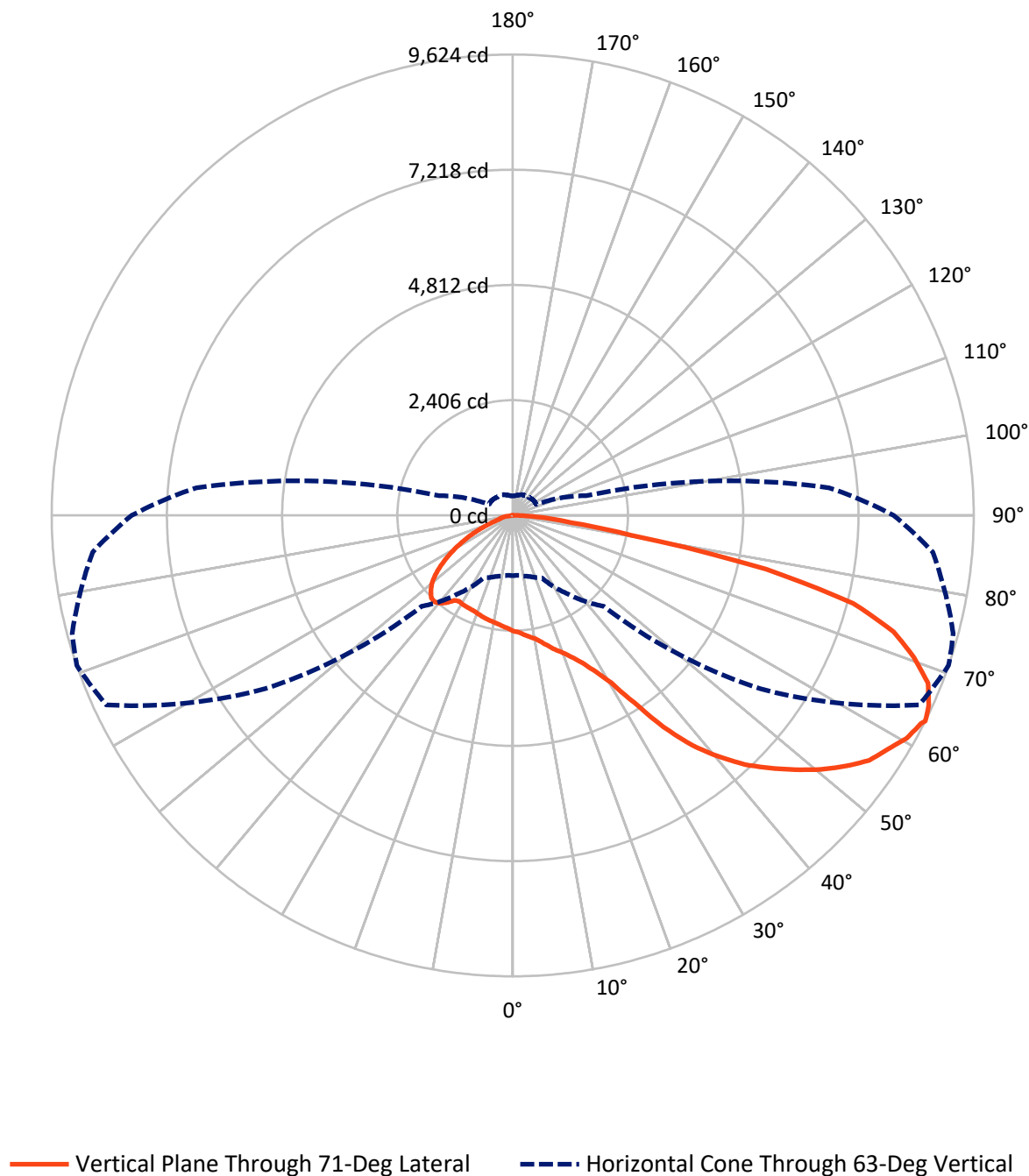


Based on 20 foot mounting height. Maximum calculated value = 7.6 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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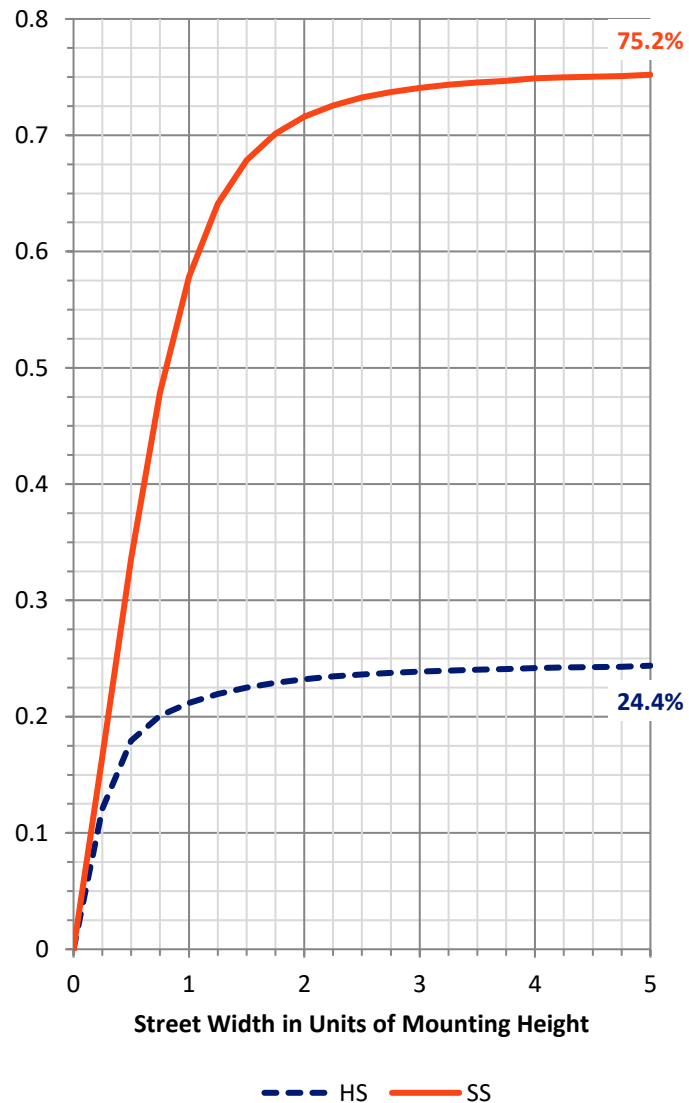
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3534.3	0.0	3534.3
	% Fixture	24.8	0.0	24.8
Street Side	Lumens	10716.1	0.0	10716.1
	% Fixture	75.2	0.0	75.2
Total	Lumens	14250.3	0.0	14250.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.6	1.6
10°-20°	709.2	5.0
20°-30°	1197.4	8.4
30°-40°	1799.5	12.6
40°-50°	2473.6	17.4
50°-60°	2876.2	20.2
60°-70°	2859.6	20.1
70°-80°	1804.9	12.7
80°-90°	297.3	2.1
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°	14250.3	100.0
0°-180°	14250.3	100.0

Coefficient of Utilization



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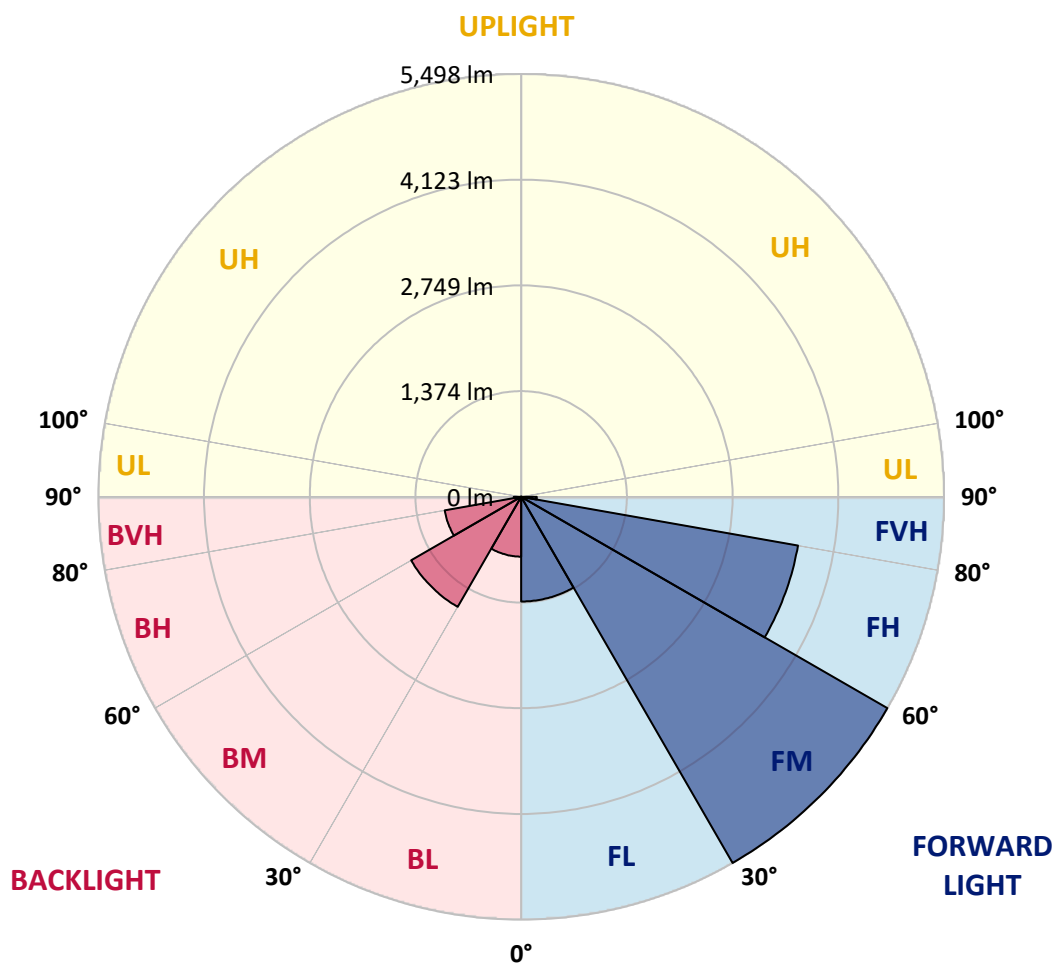
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1361.3	9.6			
FM	(30°-60°)	5497.8	38.6			
FH	(60°-80°)	3654.7	25.6			G2/5000
FVH	(80°-90°)	202.3	1.4			G2/225
BL	(0°-30°)	777.9	5.5	B2/1000		
BM	(30°-60°)	1651.6	11.6	B2/2500		
BH	(60°-80°)	1009.7	7.1	B3/2500		G3/2500
BVH	(80°-90°)	95.1	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2418.9	2418.9	2418.9	2418.9	2418.9	2418.9	2418.9	2418.9	2418.9	2418.9	2418.9
2.5°	2590.0	2585.8	2580.2	2544.8	2538.6	2516.9	2494.1	2468.9	2441.2	2444.7	2410.5
5°	2735.4	2726.3	2722.8	2670.0	2631.0	2607.4	2576.1	2519.1	2503.1	2490.6	2424.4
7.5°	2852.2	2856.3	2848.7	2798.7	2759.7	2720.8	2665.1	2581.0	2560.1	2533.7	2468.3
10°	2946.7	2957.2	2951.6	2894.6	2861.2	2822.9	2755.5	2669.3	2621.2	2583.1	2478.7
12.5°	3060.8	3054.5	3056.0	3001.7	2972.5	2920.3	2871.0	2772.9	2718.0	2665.1	2526.7
15°	3203.4	3195.1	3184.6	3132.4	3088.7	3058.0	3005.2	2896.0	2836.2	2786.2	2603.2
17.5°	3330.0	3300.7	3295.9	3238.2	3203.4	3162.4	3126.2	3033.0	2958.6	2894.0	2687.4
20°	3414.8	3400.3	3380.8	3347.4	3332.7	3302.1	3257.0	3154.7	3071.3	3005.2	2759.0
22.5°	3471.9	3463.5	3463.5	3453.0	3460.0	3447.5	3411.4	3314.7	3229.1	3135.3	2868.8
25°	3488.6	3462.8	3499.7	3540.1	3588.7	3610.2	3576.8	3510.1	3424.5	3332.7	3010.8
27.5°	3500.4	3496.2	3542.1	3611.0	3734.0	3783.4	3783.4	3745.9	3690.9	3582.5	3216.6
30°	3501.8	3503.2	3565.1	3671.5	3837.7	3974.7	3981.6	4081.8	4053.3	3969.9	3531.7
32.5°	3402.3	3398.9	3492.1	3677.7	3917.7	4136.0	4249.5	4524.2	4655.6	4661.1	4217.4
35°	3201.3	3227.1	3373.8	3616.5	3974.0	4319.6	4581.8	5141.7	5426.2	5419.3	4887.2
37.5°	3042.8	3063.6	3232.6	3551.2	4010.9	4487.3	4955.4	5827.4	6090.4	6067.4	5420.6
40°	2898.8	2923.1	3091.4	3437.0	3998.4	4677.9	5370.5	6420.8	6620.3	6588.3	5922.7
42.5°	2726.3	2744.4	2911.3	3277.8	3962.9	4808.6	5744.0	6962.5	7112.0	7025.8	6315.7
45°	2555.2	2568.5	2750.7	3069.2	3850.9	4894.8	6116.8	7454.9	7524.4	7455.7	6749.7
47.5°	2338.2	2351.4	2562.2	2887.0	3658.2	4892.1	6465.3	7870.1	7935.5	7843.7	7076.5
50°	1797.8	1811.1	2243.0	2700.5	3389.8	4825.9	6744.1	8254.7	8336.1	8201.8	7445.2
52.5°	1633.7	1640.0	1757.5	2468.9	3046.9	4641.6	6947.2	8599.0	8698.4	8552.3	7765.1
55°	1558.6	1553.1	1601.0	1988.4	2782.7	4348.1	7101.6	8925.2	9026.7	8879.9	8050.3
57.5°	1440.3	1449.4	1530.8	1702.5	2543.4	3812.7	7046.6	9231.2	9221.4	9108.8	8330.5
60°	1355.5	1359.6	1440.3	1562.7	2256.8	3203.4	6814.4	9400.9	9447.5	9297.2	8572.6
62.5°	1267.2	1272.7	1341.6	1452.9	2033.6	2756.2	6441.5	9391.1	9567.8	9475.3	8791.7
63°	1256.1	1254.6	1317.2	1438.3	1999.5	2680.4	6304.6	9360.5	9623.5	9519.1	8802.0
65°	1168.4	1173.9	1240.7	1352.0	1853.4	2472.4	5917.2	9153.9	9545.6	9554.6	8898.1
67.5°	1041.1	1049.5	1106.5	1209.5	1574.6	2168.6	4900.3	9035.0	9348.0	9403.0	8777.0
70°	891.0	900.0	959.7	1055.0	1334.6	1851.4	3642.2	8518.9	8884.1	8982.2	8230.3
72.5°	705.9	717.8	793.5	889.6	1094.7	1521.1	2563.6	7676.1	8313.9	8334.0	7467.4
75°	460.4	469.4	579.3	713.5	885.3	1204.6	1693.5	5876.8	7342.9	7466.7	6400.5
77.5°	272.0	284.5	338.7	392.9	560.6	907.6	1100.3	3129.7	5408.8	5803.2	5050.6
80°	73.8	81.4	256.6	299.7	358.1	391.5	677.4	1727.6	2503.7	3179.1	3401.6
82.5°	38.3	47.3	143.3	192.7	205.2	198.9	313.0	803.3	1224.1	1434.0	1708.1
85°	17.4	20.9	47.3	70.3	57.0	54.3	104.3	419.4	684.4	794.3	858.9
87.5°	6.3	7.6	16.6	25.8	15.3	11.9	14.6	126.6	264.2	333.9	303.2
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°	2418.9	2418.9	2418.9	2418.9	2418.9	2418.9	2418.9	2418.9	2418.9	2418.9	2418.9
2.5°	2386.3	2407.0	2379.3	2347.3	2325.0	2312.5	2302.1	2278.4	2285.4	2294.4	2293.0
5°	2409.2	2411.9	2347.3	2306.2	2257.6	2229.7	2219.3	2178.9	2183.1	2187.3	2186.6
7.5°	2423.8	2398.0	2319.5	2259.6	2208.2	2165.7	2126.1	2085.8	2078.1	2085.8	2092.0
10°	2427.9	2389.0	2300.0	2216.5	2146.9	2086.4	2051.6	1988.4	1977.2	1992.6	2002.3
12.5°	2466.2	2401.5	2286.1	2188.0	2106.7	2026.6	1966.1	1895.8	1862.6	1875.1	1886.8
15°	2513.4	2423.8	2274.2	2151.8	2043.4	1953.6	1874.3	1798.5	1756.8	1773.5	1781.8
17.5°	2570.5	2464.8	2273.6	2092.7	1975.9	1867.3	1787.4	1705.4	1628.1	1655.2	1646.2
20°	2633.9	2500.3	2269.4	2037.8	1893.1	1762.4	1656.0	1601.7	1521.7	1522.4	1510.6
22.5°	2708.9	2549.0	2264.5	1985.6	1792.3	1660.1	1527.3	1464.7	1399.3	1375.0	1367.4
25°	2827.2	2626.9	2272.8	1950.1	1705.4	1526.6	1370.8	1290.1	1262.3	1231.7	1218.5
27.5°	2987.8	2735.4	2291.0	1905.0	1596.1	1385.4	1194.2	1116.3	1096.8	1073.8	1058.5
30°	3223.6	2890.5	2312.5	1853.4	1469.6	1194.2	1018.1	961.9	930.6	918.7	909.7
32.5°	3822.4	3326.5	2329.1	1786.0	1338.1	1009.9	882.6	826.2	782.4	761.5	763.7
35°	4436.5	3855.1	2447.4	1705.4	1176.8	856.2	763.7	694.1	640.5	626.6	616.9
37.5°	4917.7	4289.7	2718.0	1624.0	1022.4	767.2	646.8	586.3	541.1	537.6	559.2
40°	5371.9	4689.0	2941.2	1530.1	862.4	665.6	528.6	504.2	484.1	488.9	518.2
42.5°	5748.9	5047.1	3124.8	1395.1	733.0	550.8	451.4	477.1	483.3	489.7	491.7
45°	6118.2	5329.5	3224.3	1218.5	619.0	458.3	443.0	491.1	501.4	510.4	499.3
47.5°	6499.3	5648.0	3222.8	1001.5	533.4	447.9	460.4	491.1	509.1	520.2	516.7
50°	6803.9	5884.5	3181.8	788.0	511.8	472.2	469.4	470.8	500.1	507.7	508.4
52.5°	7092.5	6107.8	3012.9	647.5	541.8	500.1	479.9	463.2	475.7	493.8	473.7
55°	7374.3	6301.7	2713.1	609.2	556.3	523.7	501.4	472.2	459.7	455.5	462.5
57.5°	7605.8	6463.2	2361.1	591.8	560.6	525.8	538.3	471.5	457.7	425.7	422.2
60°	7831.8	6616.1	2014.9	567.5	557.1	521.6	502.2	483.3	449.9	402.0	384.6
62.5°	7972.4	6663.5	1652.5	546.7	541.8	516.7	489.7	480.6	442.3	405.5	400.6
63°	7952.2	6630.1	1589.2	543.2	538.3	513.3	490.3	477.1	438.8	409.7	407.5
65°	8000.9	6438.8	1309.6	521.6	523.7	503.6	479.9	456.3	407.5	386.7	383.3
67.5°	7769.9	6089.7	945.1	481.9	501.4	488.2	459.0	415.9	370.6	343.6	342.1
70°	7164.2	5428.3	649.6	411.0	465.9	466.7	448.5	392.9	343.6	313.0	317.1
72.5°	6308.1	4743.2	418.7	319.9	400.6	429.2	418.7	371.4	306.7	251.1	246.9
75°	5389.3	3868.3	308.7	258.0	295.6	381.8	365.9	302.5	257.3	221.8	219.1
77.5°	4044.9	2797.3	273.3	220.5	219.8	258.7	301.1	297.6	305.4	367.3	358.9
80°	2800.0	1973.7	217.7	178.7	134.2	163.4	253.8	315.0	392.9	228.1	214.2
82.5°	1620.5	1071.8	70.9	56.4	82.0	105.7	186.4	391.5	260.1	136.3	122.4
85°	762.9	406.9	30.6	17.4	24.4	35.5	105.0	331.0	166.2	68.2	12.5
87.5°	236.5	111.9	7.0	5.5	6.3	7.6	44.5	173.8	114.0	7.6	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)