

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: P286939

Luminaire Tested: **USSL-C027-D-U-T2-AP-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286939
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-7030
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K LEDS AND TYPE II OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13741.6 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

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

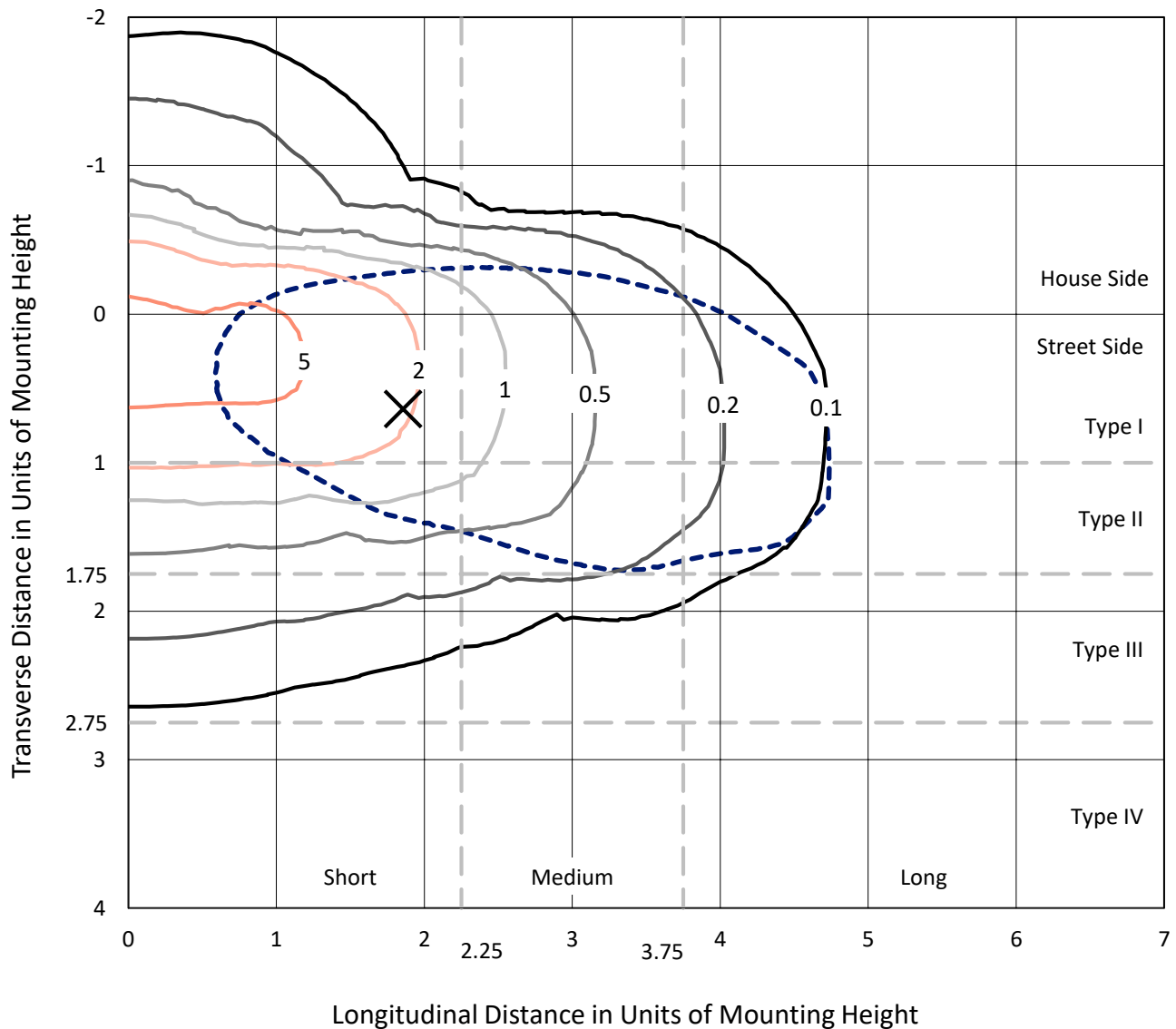


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

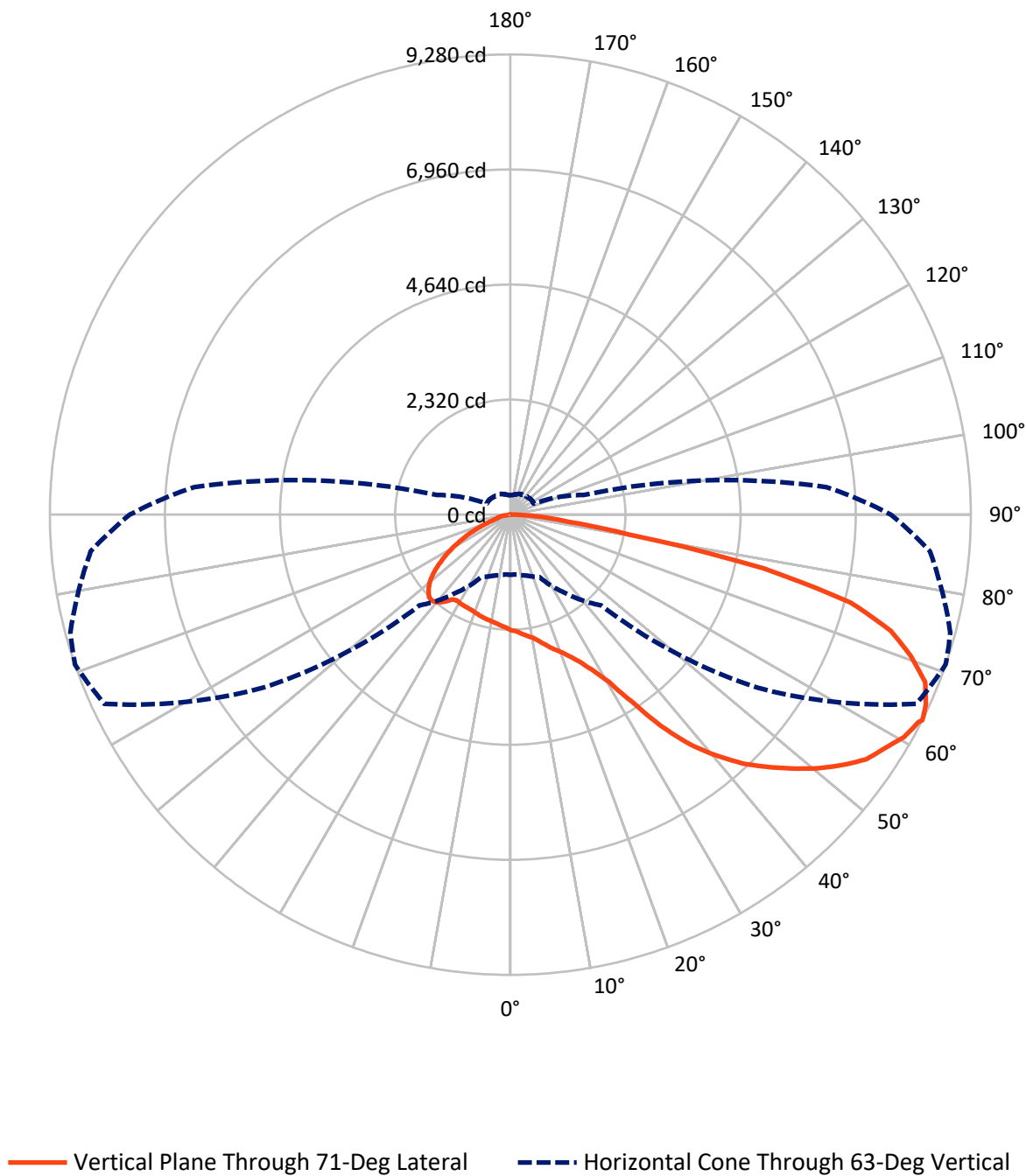


Based on 20 foot mounting height. Maximum calculated value = 7.3 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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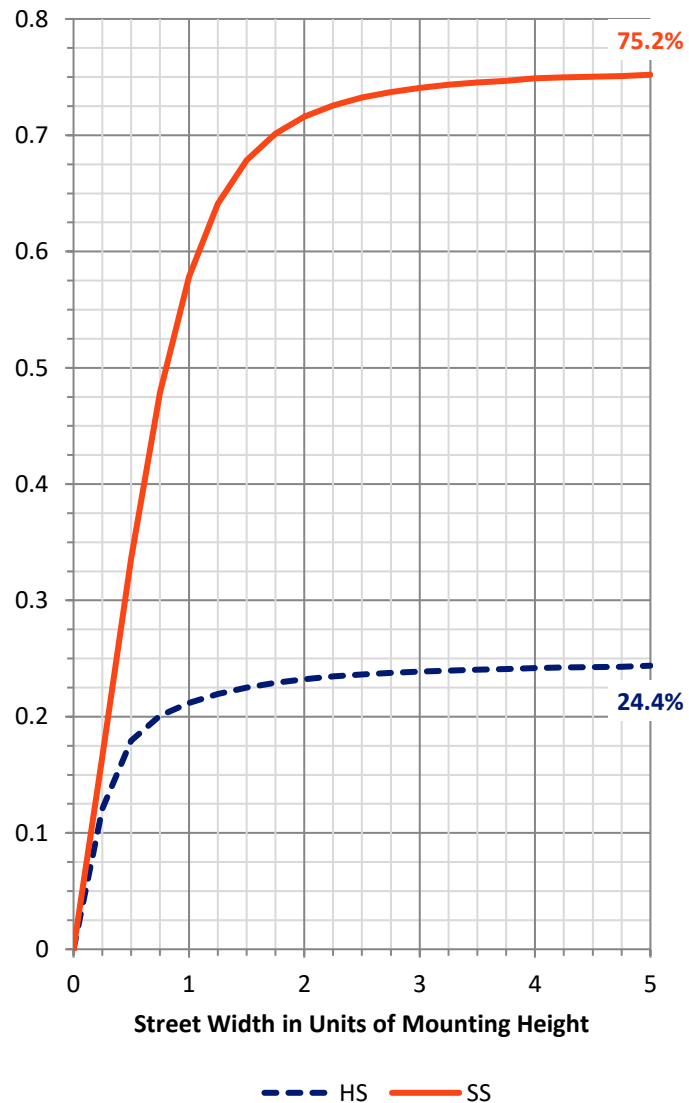
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3408.1	0.0	3408.1
	% Fixture	24.8	0.0	24.8
Street Side	Lumens	10333.5	0.0	10333.5
	% Fixture	75.2	0.0	75.2
Total	Lumens	13741.6	0.0	13741.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.3	1.6
10°-20°	683.8	5.0
20°-30°	1154.7	8.4
30°-40°	1735.3	12.6
40°-50°	2385.3	17.4
50°-60°	2773.5	20.2
60°-70°	2757.5	20.1
70°-80°	1740.4	12.7
80°-90°	286.7	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°	13741.6	100.0
0°-180°	13741.6	100.0

Coefficient of Utilization



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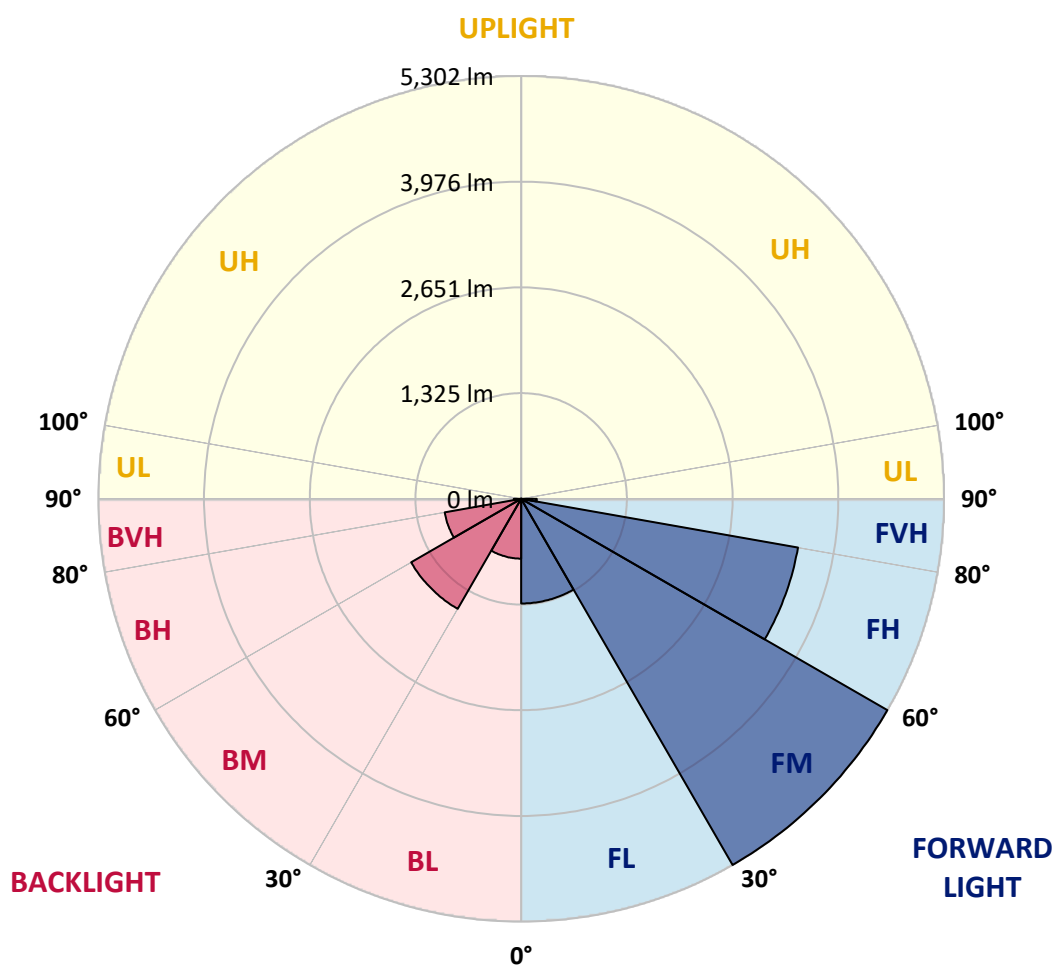
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1312.7	9.6			
FM	(30°-60°)	5301.5	38.6			
FH	(60°-80°)	3524.2	25.6			G2/5000
FVH	(80°-90°)	195.1	1.4			G2/225
BL	(0°-30°)	750.1	5.5	B2/1000		
BM	(30°-60°)	1592.6	11.6	B2/2500		
BH	(60°-80°)	973.7	7.1	B2/1000		G2/1000
BVH	(80°-90°)	91.7	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2332.5	2332.5	2332.5	2332.5	2332.5	2332.5	2332.5	2332.5	2332.5	2332.5	2332.5
2.5°	2497.5	2493.5	2488.1	2453.9	2447.9	2427.1	2405.0	2380.9	2354.0	2357.3	2324.5
5°	2637.7	2629.0	2625.6	2574.6	2537.1	2514.3	2484.1	2429.1	2413.7	2401.6	2337.9
7.5°	2750.3	2754.4	2747.0	2698.7	2661.2	2623.6	2569.9	2488.8	2468.7	2443.2	2380.1
10°	2841.6	2851.7	2846.3	2791.2	2759.0	2722.1	2657.2	2574.0	2527.6	2490.8	2390.2
12.5°	2951.5	2945.6	2946.8	2894.6	2866.4	2816.0	2768.5	2673.9	2620.9	2569.9	2436.5
15°	3089.1	3081.0	3071.0	3020.6	2978.4	2948.9	2897.9	2792.6	2735.0	2686.6	2510.3
17.5°	3211.1	3182.9	3178.2	3122.6	3089.1	3049.4	3014.6	2924.7	2852.9	2790.6	2591.5
20°	3292.9	3278.8	3260.0	3227.8	3213.8	3184.3	3140.7	3042.1	2961.6	2897.9	2660.5
22.5°	3347.9	3339.9	3339.9	3329.8	3336.6	3324.5	3289.6	3196.3	3113.9	3023.4	2766.4
25°	3364.0	3339.2	3374.7	3413.6	3460.6	3481.3	3449.2	3384.8	3302.3	3213.8	2903.3
27.5°	3375.4	3371.4	3415.6	3482.1	3600.8	3648.4	3648.4	3612.1	3559.1	3454.5	3101.8
30°	3376.7	3378.1	3437.8	3540.4	3700.6	3832.8	3839.5	3936.0	3908.6	3828.1	3405.6
32.5°	3280.8	3277.5	3367.4	3546.4	3777.8	3988.4	4097.7	4362.7	4489.4	4494.7	4066.8
35°	3087.1	3111.9	3253.4	3487.4	3832.2	4165.4	4418.3	4958.1	5232.4	5225.7	4712.7
37.5°	2934.1	2954.3	3117.2	3424.3	3867.7	4327.0	4778.5	5619.4	5872.9	5850.8	5227.1
40°	2795.3	2818.8	2981.1	3314.4	3855.6	4510.8	5178.8	6191.5	6384.0	6353.1	5711.3
42.5°	2629.0	2646.4	2807.4	3160.8	3821.4	4637.0	5538.9	6713.9	6858.1	6775.0	6090.2
45°	2463.9	2476.8	2652.4	2959.6	3713.5	4720.1	5898.4	7188.8	7255.9	7189.4	6508.7
47.5°	2254.7	2267.4	2470.7	2783.9	3527.7	4717.4	6234.4	7589.1	7652.2	7563.7	6824.0
50°	1733.7	1746.4	2162.8	2604.2	3268.7	4653.7	6503.3	7960.1	8038.5	7909.1	7179.3
52.5°	1575.3	1581.4	1694.8	2380.9	2938.1	4476.0	6699.2	8292.0	8387.9	8247.1	7487.9
55°	1502.9	1497.5	1543.9	1917.4	2683.2	4193.0	6848.0	8606.5	8704.4	8562.9	7762.8
57.5°	1388.9	1397.7	1476.1	1641.8	2452.6	3676.6	6795.1	8901.6	8892.2	8783.6	8033.1
60°	1307.1	1311.1	1388.9	1507.0	2176.3	3089.1	6571.1	9065.2	9110.2	8965.4	8266.5
62.5°	1222.0	1227.3	1293.7	1401.0	1961.0	2657.8	6211.6	9055.9	9226.2	9137.0	8477.7
63°	1211.3	1209.9	1270.2	1386.9	1928.2	2584.7	6079.5	9026.3	9279.8	9179.3	8487.8
65°	1126.7	1132.1	1196.4	1303.8	1787.3	2384.1	5706.0	8827.2	9204.7	9213.5	8580.4
67.5°	1003.9	1012.0	1067.0	1166.3	1518.4	2091.1	4725.5	8712.5	9014.2	9067.2	8463.7
70°	859.2	867.8	925.5	1017.4	1287.0	1785.3	3512.2	8214.9	8567.0	8661.5	7936.5
72.5°	680.7	692.1	765.2	857.8	1055.7	1466.7	2472.0	7402.0	8017.0	8036.5	7200.9
75°	444.0	452.7	558.7	688.1	853.7	1161.5	1633.1	5667.1	7080.8	7200.1	6172.0
77.5°	262.2	274.3	326.7	378.9	540.5	875.2	1061.0	3018.0	5215.7	5596.0	4870.3
80°	71.1	78.4	247.5	289.0	345.4	377.5	653.2	1666.0	2414.3	3065.5	3280.2
82.5°	36.9	45.6	138.1	185.8	197.9	191.8	301.8	774.6	1180.3	1382.9	1647.1
85°	16.7	20.1	45.6	67.7	55.0	52.4	100.6	404.5	659.9	765.9	828.3
87.5°	6.0	7.4	16.1	24.8	14.7	11.4	14.1	122.1	254.8	321.9	292.4
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°	2332.5	2332.5	2332.5	2332.5	2332.5	2332.5	2332.5	2332.5	2332.5	2332.5	2332.5
2.5°	2301.0	2321.2	2294.4	2263.4	2242.0	2229.9	2219.9	2197.1	2203.7	2212.5	2211.2
5°	2323.2	2325.8	2263.4	2223.9	2176.9	2150.1	2140.0	2101.1	2105.2	2109.2	2108.6
7.5°	2337.2	2312.4	2236.6	2178.9	2129.3	2088.4	2050.2	2011.3	2004.0	2011.3	2017.3
10°	2341.2	2303.7	2217.8	2137.4	2070.3	2012.0	1978.4	1917.4	1906.7	1921.4	1930.8
12.5°	2378.1	2315.8	2204.5	2109.8	2031.4	1954.2	1895.9	1828.2	1796.0	1808.1	1819.5
15°	2423.8	2337.2	2193.0	2075.0	1970.4	1883.9	1807.4	1734.3	1694.0	1710.1	1718.2
17.5°	2478.8	2376.8	2192.4	2018.0	1905.4	1800.7	1723.6	1644.4	1570.0	1596.2	1587.4
20°	2539.7	2411.0	2188.4	1965.1	1825.6	1699.4	1596.8	1544.5	1467.4	1468.1	1456.6
22.5°	2612.2	2457.9	2183.6	1914.7	1728.3	1600.9	1472.7	1412.4	1349.4	1325.9	1318.5
25°	2726.2	2533.1	2191.7	1880.5	1644.4	1472.1	1321.9	1244.1	1217.2	1187.7	1175.0
27.5°	2881.1	2637.7	2209.1	1836.9	1539.2	1335.9	1151.5	1076.4	1057.7	1035.5	1020.8
30°	3108.5	2787.2	2229.9	1787.3	1417.1	1151.5	981.9	927.5	897.3	886.0	877.2
32.5°	3685.9	3207.8	2246.0	1722.2	1290.3	973.8	851.1	796.7	754.4	734.4	736.4
35°	4278.1	3717.5	2360.1	1644.4	1134.7	825.6	736.4	669.3	617.7	604.2	594.9
37.5°	4742.2	4136.6	2620.9	1566.0	985.8	739.7	623.8	565.4	521.8	518.4	539.2
40°	5180.2	4521.5	2836.2	1475.5	831.6	641.8	509.7	486.2	466.8	471.4	499.6
42.5°	5543.6	4867.0	3013.3	1345.3	706.8	531.1	435.3	460.1	466.1	472.2	474.2
45°	5899.7	5139.2	3109.1	1175.0	596.9	442.0	427.2	473.5	483.5	492.2	481.5
47.5°	6267.3	5446.4	3107.8	965.8	514.4	431.9	444.0	473.5	490.9	501.7	498.3
50°	6561.0	5674.4	3068.2	759.8	493.6	455.3	452.7	454.1	482.1	489.6	490.2
52.5°	6839.3	5889.7	2905.3	624.4	522.4	482.1	462.8	446.6	458.7	476.2	456.7
55°	7111.0	6076.8	2616.3	587.5	536.5	505.0	483.5	455.3	443.4	439.3	446.0
57.5°	7334.3	6232.4	2276.9	570.8	540.5	507.1	519.1	454.7	441.3	410.4	407.1
60°	7552.2	6380.0	1942.9	547.2	537.2	503.0	484.2	466.1	433.9	387.6	370.9
62.5°	7687.8	6425.5	1593.5	527.1	522.4	498.3	472.2	463.4	426.5	391.0	386.3
63°	7668.3	6393.3	1532.4	523.8	519.1	495.0	472.8	460.1	423.2	395.0	393.0
65°	7715.2	6208.9	1262.9	503.0	505.0	485.5	462.8	440.0	393.0	372.9	369.5
67.5°	7492.5	5872.3	911.4	464.8	483.5	470.8	442.6	401.1	357.5	331.3	329.9
70°	6908.4	5234.4	626.4	396.4	449.3	450.0	432.5	378.9	331.3	301.8	305.8
72.5°	6082.9	4573.9	403.7	308.5	386.3	413.8	403.7	358.1	295.7	242.1	238.1
75°	5196.9	3730.2	297.7	248.9	285.0	368.2	352.7	291.7	248.1	213.9	211.2
77.5°	3900.5	2697.3	263.6	212.6	212.0	249.5	290.4	287.0	294.4	354.1	346.1
80°	2700.1	1903.4	210.0	172.3	129.4	157.6	244.8	303.8	378.9	219.9	206.6
82.5°	1562.6	1033.5	68.4	54.4	79.2	102.0	179.8	377.5	250.8	131.4	118.1
85°	735.7	392.4	29.5	16.7	23.4	34.2	101.2	319.2	160.3	65.7	12.1
87.5°	228.0	108.0	6.7	5.4	6.0	7.4	42.9	167.7	110.0	7.4	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)