

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: P286943

Luminaire Tested: **USSL-C027-D-U-T2-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286943
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-BZ
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K LEDS AND TYPE II OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13996 lumens
Efficiency: N/A
Efficacy: 145.8 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

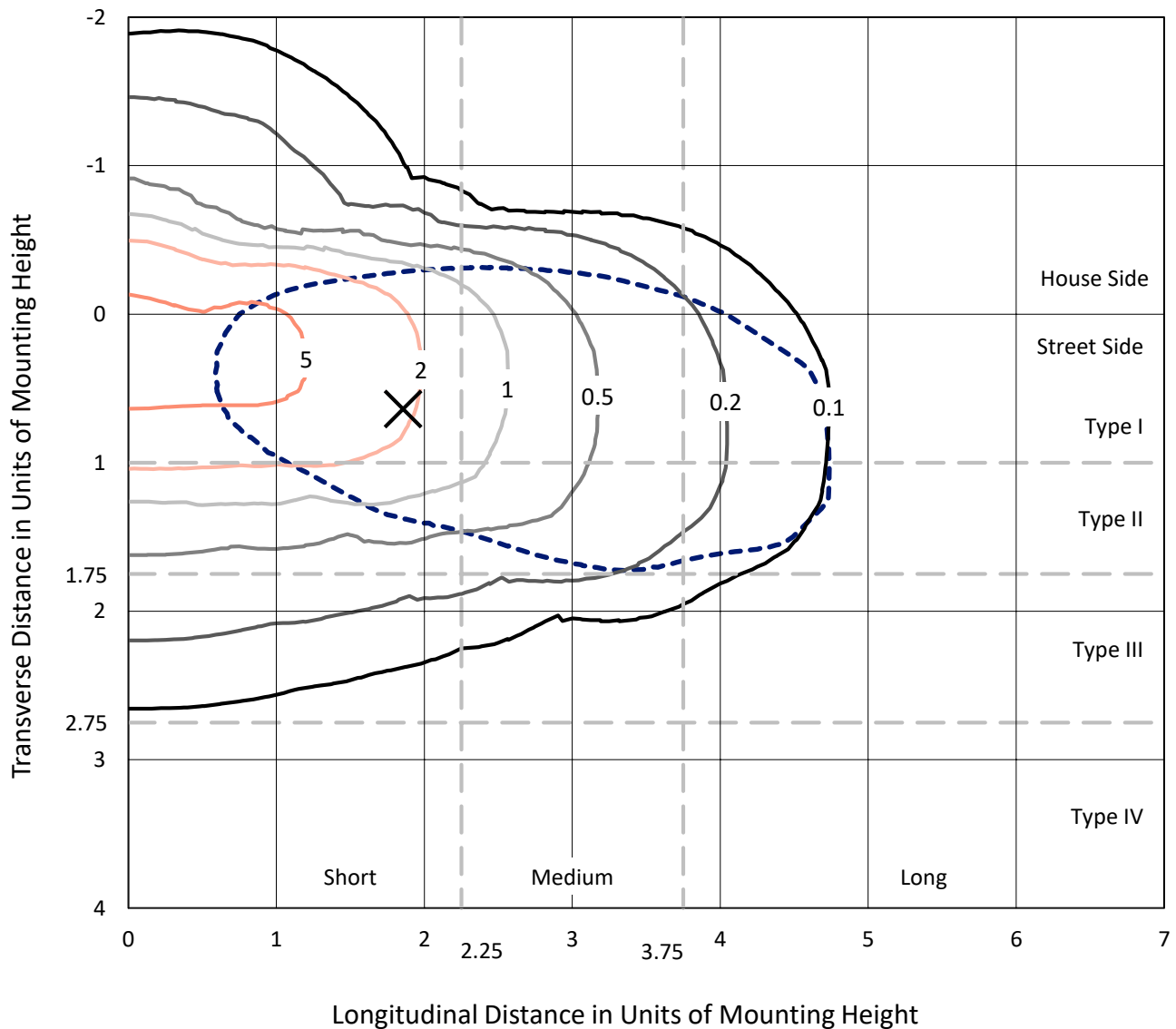


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

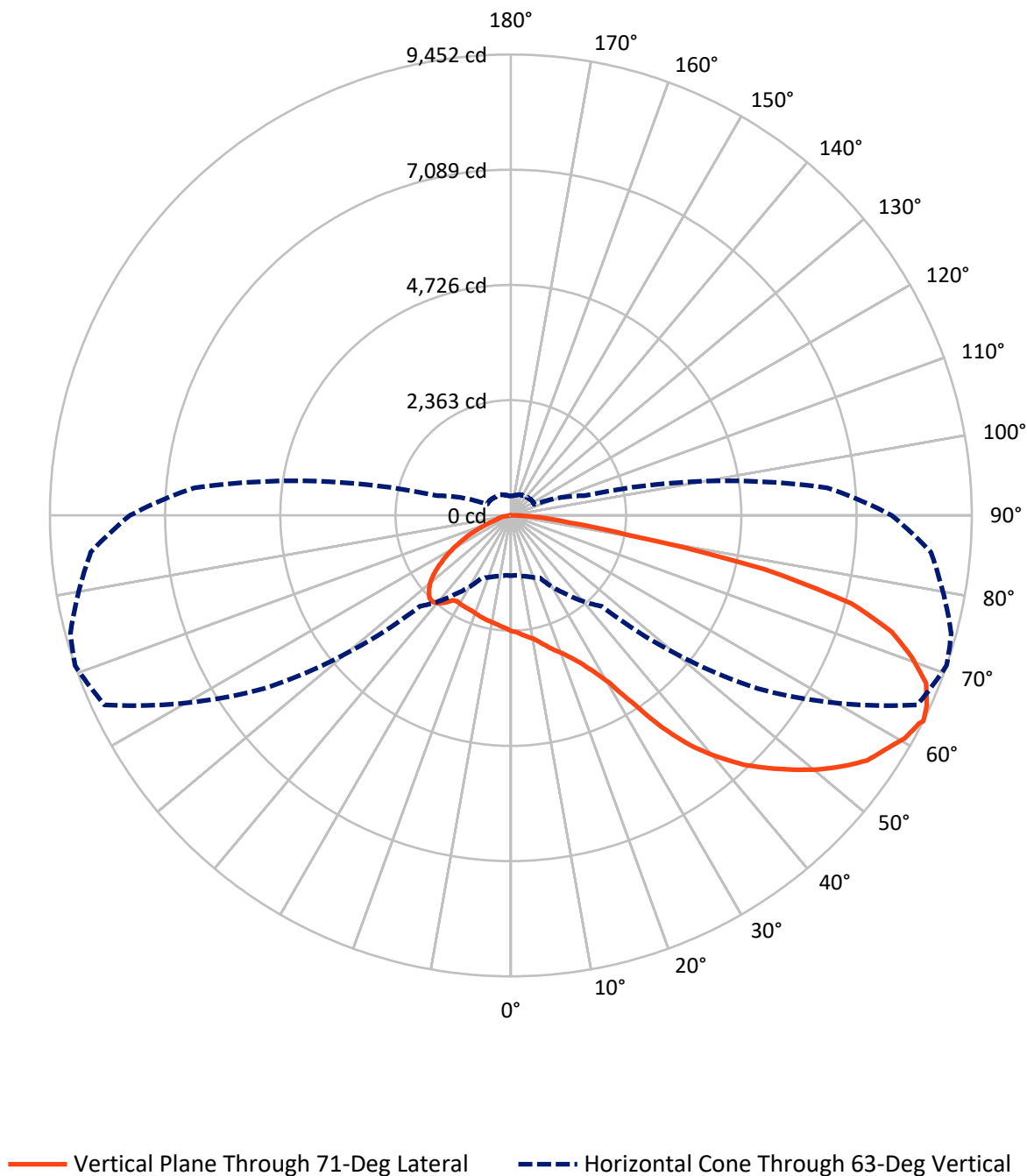


Based on 20 foot mounting height. Maximum calculated value = 7.4 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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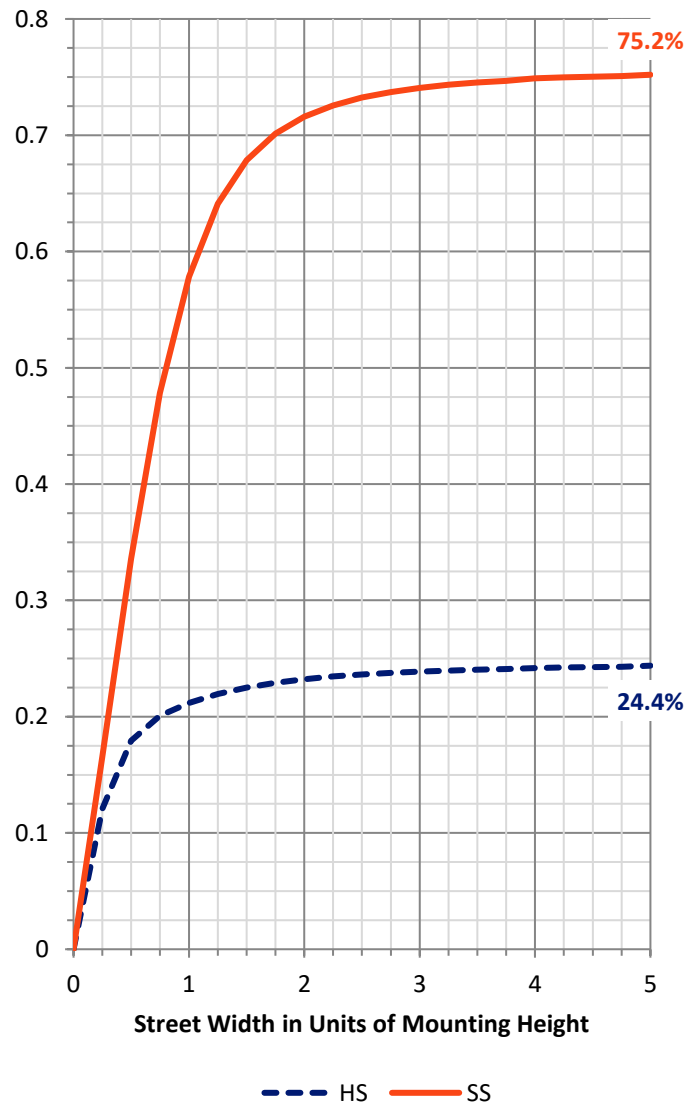
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3471.2	0.0	3471.2
	% Fixture	24.8	0.0	24.8
Street Side	Lumens	10524.8	0.0	10524.8
	% Fixture	75.2	0.0	75.2
Total	Lumens	13996.0	0.0	13996.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.4	1.6
10°-20°	696.5	5.0
20°-30°	1176.1	8.4
30°-40°	1767.4	12.6
40°-50°	2429.5	17.4
50°-60°	2824.9	20.2
60°-70°	2808.5	20.1
70°-80°	1772.6	12.7
80°-90°	292.0	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°	13996.0	100.0
0°-180°	13996.0	100.0

Coefficient of Utilization



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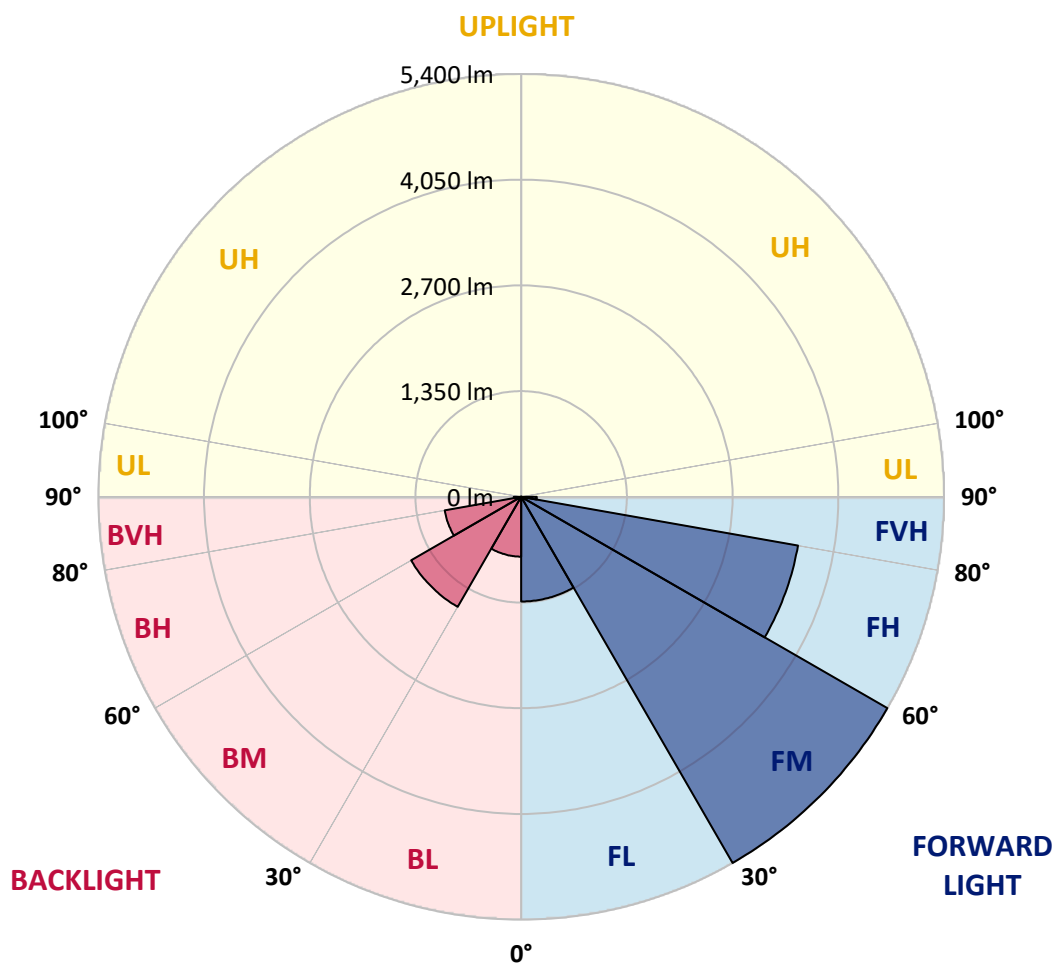
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1337.0	9.6			
FM	(30°-60°)	5399.7	38.6			
FH	(60°-80°)	3589.5	25.6			G2/5000
FVH	(80°-90°)	198.7	1.4			G2/225
BL	(0°-30°)	764.0	5.5	B2/1000		
BM	(30°-60°)	1622.1	11.6	B2/2500		
BH	(60°-80°)	991.7	7.1	B2/1000		G2/1000
BVH	(80°-90°)	93.4	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°	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8
2.5°	2543.8	2539.6	2534.2	2499.4	2493.2	2472.0	2449.5	2424.9	2397.6	2401.0	2367.5
5°	2686.5	2677.6	2674.2	2622.3	2584.0	2560.8	2530.1	2474.1	2458.3	2446.0	2381.2
7.5°	2801.3	2805.3	2797.8	2748.6	2710.4	2672.2	2617.5	2534.9	2514.4	2488.4	2424.2
10°	2894.2	2904.4	2898.9	2843.0	2810.1	2772.6	2706.3	2621.7	2574.5	2537.0	2434.5
12.5°	3006.2	3000.0	3001.4	2948.1	2919.5	2868.2	2819.8	2723.4	2669.5	2617.5	2481.5
15°	3146.2	3138.0	3127.8	3076.6	3033.5	3003.4	2951.5	2844.3	2785.5	2736.3	2556.7
17.5°	3270.5	3241.8	3237.0	3180.3	3146.2	3105.9	3070.4	2978.8	2905.8	2842.2	2639.4
20°	3353.8	3339.5	3320.5	3287.6	3273.3	3243.2	3198.8	3098.4	3016.5	2951.5	2709.7
22.5°	3409.9	3401.6	3401.6	3391.5	3398.3	3386.0	3350.4	3255.5	3171.5	3079.3	2817.6
25°	3426.2	3401.0	3437.3	3476.8	3524.6	3545.8	3513.0	3447.4	3363.5	3273.3	2957.0
27.5°	3437.9	3433.8	3478.9	3546.5	3667.4	3715.9	3715.9	3679.0	3625.1	3518.4	3159.2
30°	3439.3	3440.6	3501.4	3605.9	3769.2	3903.7	3910.6	4009.0	3981.0	3898.9	3468.6
32.5°	3341.5	3338.2	3429.7	3612.0	3847.8	4062.2	4173.6	4443.4	4572.5	4577.9	4142.1
35°	3144.2	3169.4	3313.6	3551.9	3903.1	4242.6	4500.0	5049.9	5329.3	5322.5	4800.0
37.5°	2988.4	3009.0	3174.9	3487.7	3939.2	4407.2	4866.8	5723.5	5981.7	5959.1	5323.9
40°	2847.0	2871.0	3036.3	3375.8	3926.9	4594.3	5274.7	6306.1	6502.2	6470.7	5817.0
42.5°	2677.6	2695.4	2859.3	3219.3	3892.2	4722.7	5641.5	6838.3	6985.1	6900.4	6203.0
45°	2509.6	2522.6	2701.6	3014.4	3782.1	4807.5	6007.6	7321.8	7390.2	7322.5	6629.3
47.5°	2296.5	2309.4	2516.4	2835.4	3593.0	4804.7	6349.9	7729.6	7793.9	7703.7	6950.3
50°	1765.7	1778.7	2202.9	2652.4	3329.3	4739.9	6623.7	8107.4	8187.3	8055.5	7312.3
52.5°	1604.6	1610.7	1726.2	2424.9	2992.5	4558.8	6823.2	8445.5	8543.1	8399.7	7626.5
55°	1530.8	1525.3	1572.5	1952.9	2733.0	4270.5	6974.9	8765.8	8865.5	8721.5	7906.5
57.5°	1414.6	1423.6	1503.5	1672.2	2498.0	3744.6	6920.8	9066.4	9056.8	8946.2	8181.8
60°	1331.3	1335.4	1414.6	1534.8	2216.6	3146.2	6692.7	9233.1	9278.8	9131.3	8419.5
62.5°	1244.5	1250.0	1317.7	1426.9	1997.3	2707.0	6326.6	9223.5	9397.0	9306.1	8634.7
63°	1233.6	1232.2	1293.7	1412.6	1963.8	2632.6	6192.0	9193.5	9451.7	9349.2	8645.0
65°	1147.6	1153.1	1218.6	1327.8	1820.4	2428.3	5811.5	8990.6	9375.1	9384.0	8739.2
67.5°	1022.6	1030.8	1086.7	1187.8	1546.5	2129.8	4812.9	8873.8	9181.2	9235.1	8620.4
70°	875.1	883.9	942.7	1036.3	1310.8	1818.4	3577.3	8367.0	8725.5	8821.9	8083.4
72.5°	693.3	704.9	779.3	873.7	1075.2	1493.8	2517.8	7539.1	8165.5	8185.2	7334.1
75°	452.2	461.1	569.0	700.8	869.5	1183.1	1663.3	5771.9	7211.9	7333.4	6286.3
77.5°	267.1	279.4	332.7	385.9	550.5	891.4	1080.6	3073.8	5312.2	5699.5	4960.4
80°	72.4	79.9	252.0	294.4	351.8	384.5	665.3	1696.8	2459.1	3122.4	3340.9
82.5°	37.5	46.4	140.8	189.2	201.5	195.3	307.4	789.0	1202.2	1408.5	1677.6
85°	17.1	20.5	46.4	69.0	56.0	53.3	102.5	411.9	672.2	780.1	843.6
87.5°	6.1	7.5	16.4	25.2	15.1	11.7	14.3	124.3	259.6	327.8	297.8
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°	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8
2.5°	2343.7	2364.1	2336.8	2305.4	2283.6	2271.3	2261.0	2237.8	2244.6	2253.5	2252.1
5°	2366.1	2368.9	2305.4	2265.1	2217.2	2190.0	2179.7	2140.0	2144.2	2148.2	2147.6
7.5°	2380.5	2355.2	2278.0	2219.3	2168.8	2127.1	2088.1	2048.6	2041.0	2048.6	2054.7
10°	2384.6	2346.3	2259.0	2176.9	2108.7	2049.2	2015.1	1952.9	1941.9	1957.0	1966.5
12.5°	2422.2	2358.6	2245.3	2148.9	2069.0	1990.5	1931.0	1862.0	1829.3	1841.6	1853.1
15°	2468.6	2380.5	2233.6	2113.4	2006.8	1918.7	1840.8	1766.4	1725.4	1741.8	1750.0
17.5°	2524.6	2420.8	2233.0	2055.4	1940.6	1834.1	1755.5	1674.9	1599.1	1625.7	1616.9
20°	2586.8	2455.7	2228.9	2001.4	1859.3	1730.9	1626.4	1573.1	1494.6	1495.2	1483.6
22.5°	2660.6	2503.5	2224.1	1950.2	1760.3	1630.4	1500.0	1438.5	1374.4	1350.4	1342.9
25°	2776.7	2580.0	2232.3	1915.3	1674.9	1499.3	1346.3	1267.1	1239.8	1209.8	1196.7
27.5°	2934.4	2686.5	2250.1	1870.9	1567.7	1360.7	1172.8	1096.4	1077.2	1054.7	1039.7
30°	3166.0	2838.8	2271.3	1820.4	1443.4	1172.8	1000.0	944.7	914.0	902.3	893.5
32.5°	3754.2	3267.1	2287.6	1754.1	1314.3	991.9	866.8	811.5	768.4	748.0	750.0
35°	4357.4	3786.3	2403.7	1674.9	1155.7	840.8	750.0	681.7	629.2	615.5	605.8
37.5°	4830.0	4213.2	2669.5	1594.9	1004.1	753.4	635.3	575.8	531.4	528.0	549.2
40°	5276.1	4605.3	2888.8	1502.7	847.0	653.7	519.1	495.2	475.4	480.2	508.9
42.5°	5646.3	4957.0	3069.0	1370.2	720.0	541.0	443.4	468.6	474.7	480.9	482.9
45°	6009.0	5234.4	3166.7	1196.7	608.0	450.1	435.1	482.3	492.5	501.3	490.4
47.5°	6383.2	5547.2	3165.4	983.6	523.9	439.9	452.2	482.3	500.0	511.0	507.5
50°	6682.5	5779.4	3125.0	773.9	502.7	463.8	461.1	462.4	491.2	498.7	499.3
52.5°	6966.0	5998.7	2959.0	635.9	532.1	491.2	471.3	454.9	467.2	485.0	465.2
55°	7242.6	6189.3	2664.7	598.4	546.5	514.4	492.5	463.8	451.5	447.4	454.3
57.5°	7470.1	6347.7	2319.1	581.2	550.5	516.4	528.7	463.1	449.5	418.0	414.6
60°	7692.0	6498.0	1978.8	557.4	547.1	512.4	493.2	474.7	442.0	394.8	377.7
62.5°	7830.0	6544.5	1623.0	536.9	532.1	507.5	480.9	472.0	434.5	398.2	393.4
63°	7810.2	6511.7	1560.8	533.4	528.7	504.1	481.5	468.6	431.1	402.3	400.3
65°	7858.0	6323.9	1286.2	512.4	514.4	494.5	471.3	448.1	400.3	379.8	376.4
67.5°	7631.3	5981.0	928.3	473.4	492.5	479.5	450.8	408.5	364.1	337.5	336.1
70°	7036.4	5331.4	638.0	403.7	457.7	458.3	440.6	385.9	337.5	307.4	311.5
72.5°	6195.4	4658.6	411.2	314.3	393.4	421.4	411.2	364.7	301.2	246.6	242.5
75°	5293.1	3799.2	303.2	253.4	290.3	375.0	359.3	297.1	252.8	217.9	215.2
77.5°	3972.7	2747.3	268.5	216.5	215.9	254.1	295.8	292.3	299.8	360.7	352.4
80°	2750.0	1938.6	213.8	175.5	131.9	160.5	249.3	309.4	385.9	224.1	210.4
82.5°	1591.5	1052.6	69.6	55.3	80.6	103.9	183.0	384.5	255.4	133.9	120.2
85°	749.3	399.6	30.1	17.1	24.0	34.9	103.1	325.2	163.2	67.0	12.3
87.5°	232.2	110.0	6.8	5.5	6.1	7.5	43.7	170.7	112.0	7.5	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)