

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, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13205 lumens
Efficiency: N/A
Efficacy: 137.6 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



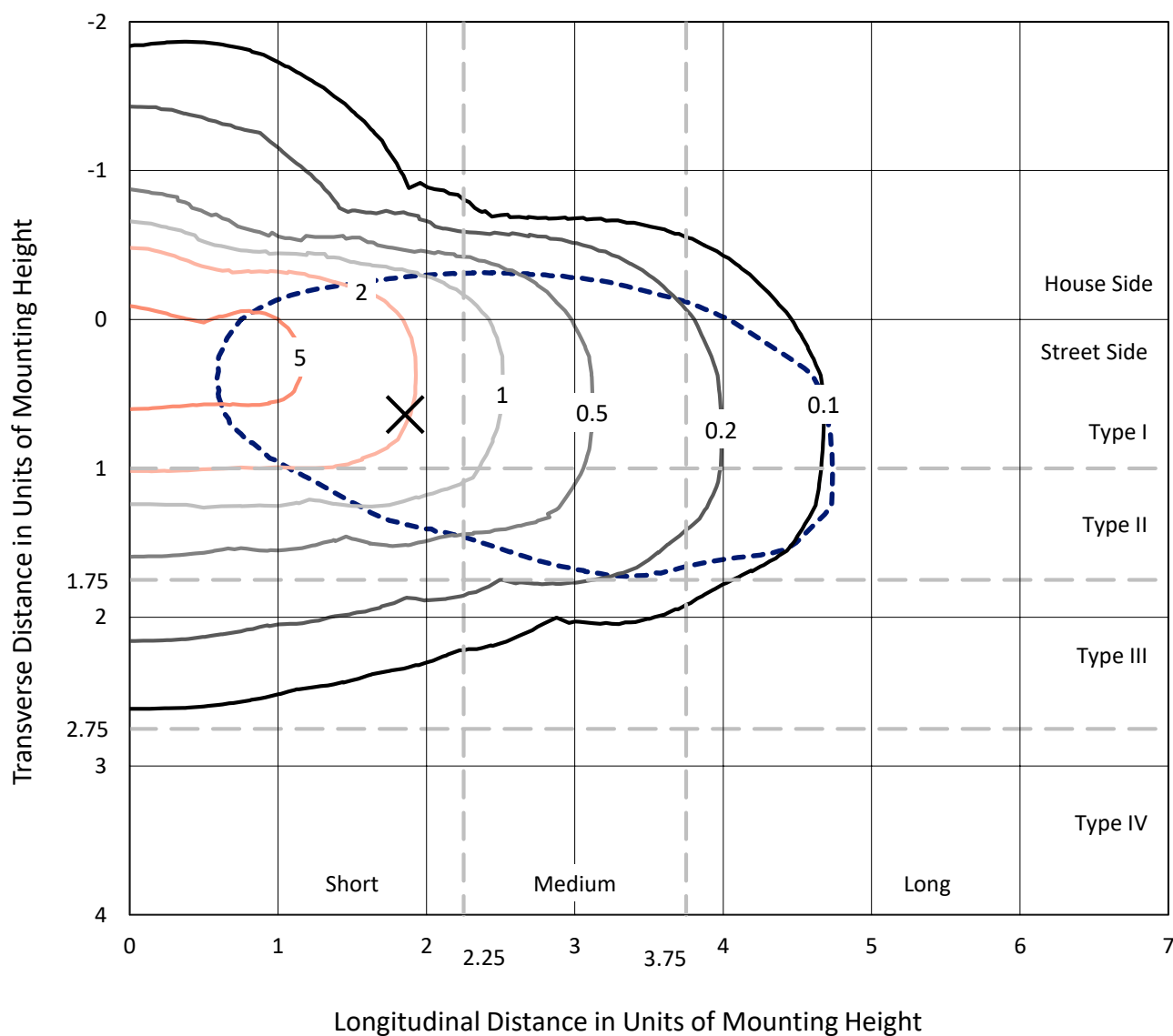
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

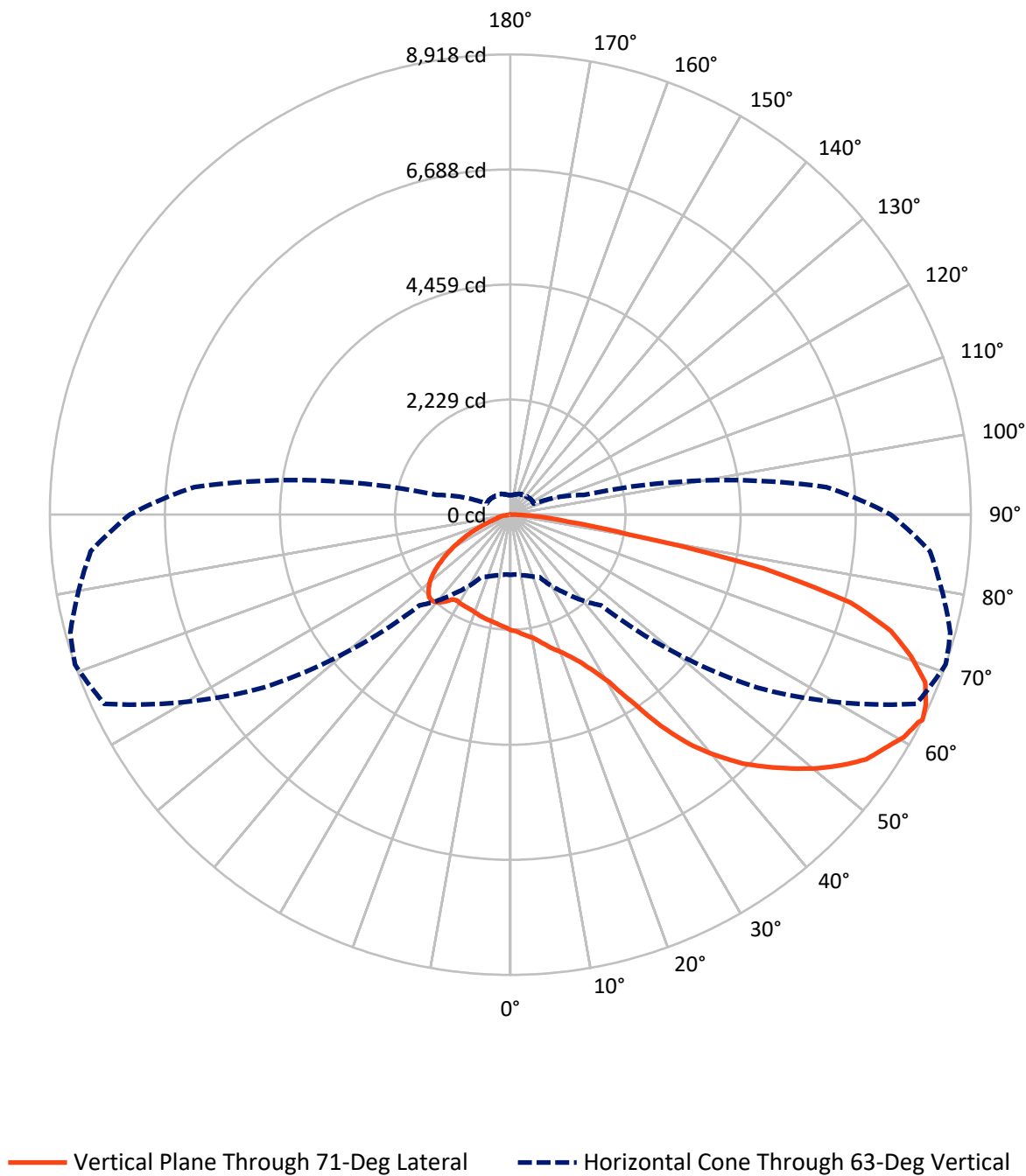


Based on 20 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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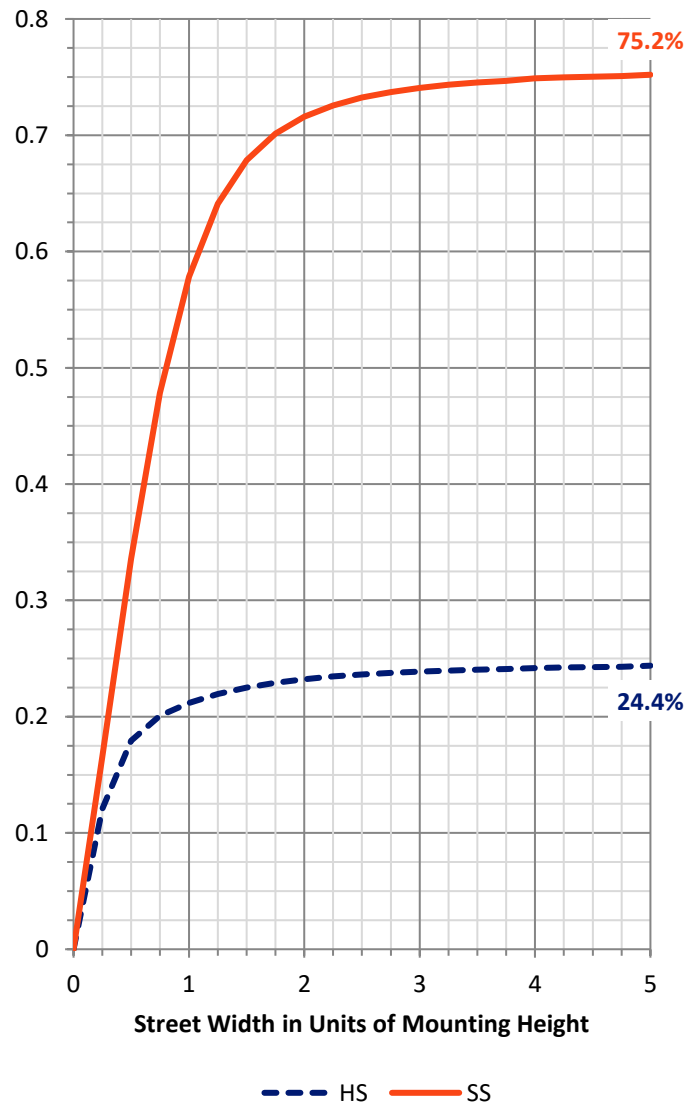
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3275.0	0.0	3275.0
	% Fixture	24.8	0.0	24.8
Street Side	Lumens	9930.0	0.0	9930.0
	% Fixture	75.2	0.0	75.2
Total	Lumens	13205.0	0.0	13205.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.5	1.6
10°-20°	657.1	5.0
20°-30°	1109.6	8.4
30°-40°	1667.5	12.6
40°-50°	2292.2	17.4
50°-60°	2665.2	20.2
60°-70°	2649.8	20.1
70°-80°	1672.5	12.7
80°-90°	275.5	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°	13205.0	100.0
0°-180°	13205.0	100.0

Coefficient of Utilization



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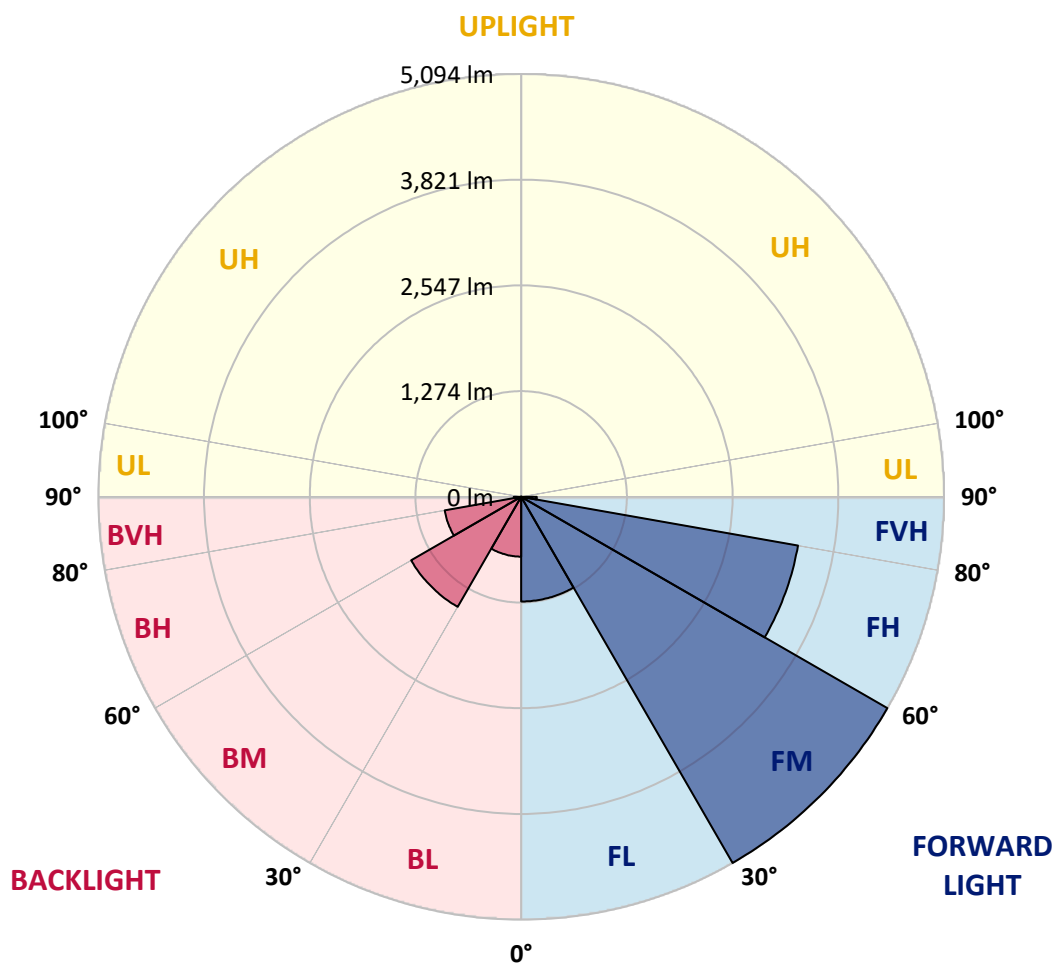
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1261.4	9.6			
FM	(30°-60°)	5094.5	38.6			
FH	(60°-80°)	3386.6	25.6			G2/5000
FVH	(80°-90°)	187.4	1.4			G2/225
BL	(0°-30°)	720.8	5.5	B2/1000		
BM	(30°-60°)	1530.5	11.6	B2/2500		
BH	(60°-80°)	935.6	7.1	B2/1000		G2/1000
BVH	(80°-90°)	88.1	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2241.5	2241.5	2241.5	2241.5	2241.5	2241.5	2241.5	2241.5	2241.5	2241.5	2241.5
2.5°	2400.0	2396.1	2391.0	2358.1	2352.3	2332.3	2311.1	2287.9	2262.1	2265.3	2233.7
5°	2534.7	2526.3	2523.1	2474.1	2438.0	2416.1	2387.1	2334.3	2319.4	2307.8	2246.6
7.5°	2643.0	2646.8	2639.7	2593.3	2557.2	2521.2	2469.6	2391.6	2372.3	2347.8	2287.2
10°	2730.6	2740.3	2735.1	2682.3	2651.3	2615.9	2553.4	2473.5	2429.0	2393.6	2296.9
12.5°	2836.3	2830.5	2831.8	2781.5	2754.5	2706.1	2660.4	2569.5	2518.6	2469.6	2341.3
15°	2968.4	2960.7	2951.0	2902.7	2862.1	2833.7	2784.7	2683.6	2628.1	2581.7	2412.2
17.5°	3085.7	3058.6	3054.1	3000.6	2968.4	2930.4	2896.9	2810.5	2741.6	2681.6	2490.2
20°	3164.3	3150.8	3132.8	3101.8	3088.3	3059.9	3018.0	2923.3	2846.0	2784.7	2556.6
22.5°	3217.2	3209.4	3209.4	3199.8	3206.2	3194.6	3161.1	3071.5	2992.3	2905.3	2658.4
25°	3232.6	3208.8	3243.0	3280.3	3325.4	3345.4	3314.5	3252.6	3173.4	3088.3	2789.9
27.5°	3243.6	3239.7	3282.3	3346.1	3460.1	3505.9	3505.9	3471.1	3420.2	3319.6	2980.7
30°	3244.9	3246.2	3303.5	3402.1	3556.2	3683.1	3689.6	3782.4	3756.0	3678.6	3272.6
32.5°	3152.7	3149.5	3235.9	3407.9	3630.3	3832.6	3937.7	4192.3	4314.1	4319.2	3908.0
35°	2966.5	2990.3	3126.3	3351.2	3682.5	4002.8	4245.7	4764.5	5028.1	5021.7	4528.7
37.5°	2819.5	2838.9	2995.5	3290.6	3716.6	4158.1	4591.8	5400.0	5643.6	5622.3	5023.0
40°	2686.1	2708.7	2864.7	3185.0	3705.0	4334.7	4976.6	5949.7	6134.7	6105.0	5488.3
42.5°	2526.3	2543.1	2697.7	3037.4	3672.2	4455.8	5322.7	6451.8	6590.3	6510.4	5852.4
45°	2367.8	2380.0	2548.9	2844.0	3568.4	4535.8	5668.1	6908.0	6972.5	6908.7	6254.6
47.5°	2166.7	2178.9	2374.2	2675.2	3389.9	4533.2	5991.0	7292.8	7353.4	7268.3	6557.5
50°	1665.9	1678.2	2078.4	2502.5	3141.1	4472.0	6249.4	7649.2	7724.6	7600.2	6899.0
52.5°	1513.9	1519.7	1628.6	2287.9	2823.4	4301.2	6437.6	7968.2	8060.3	7925.0	7195.5
55°	1444.3	1439.1	1483.6	1842.5	2578.5	4029.2	6580.7	8270.4	8364.5	8228.6	7459.7
57.5°	1334.7	1343.1	1418.5	1577.7	2356.8	3533.0	6529.7	8554.0	8545.0	8440.6	7719.4
60°	1256.1	1259.9	1334.7	1448.1	2091.3	2968.4	6314.5	8711.3	8754.4	8615.2	7943.7
62.5°	1174.2	1179.4	1243.2	1346.3	1884.4	2554.0	5969.1	8702.2	8865.9	8780.2	8146.7
63°	1163.9	1162.6	1220.6	1332.8	1852.8	2483.8	5842.1	8673.9	8917.5	8820.8	8156.4
65°	1082.7	1087.9	1149.7	1252.8	1717.5	2291.1	5483.1	8482.5	8845.3	8853.7	8245.3
67.5°	964.8	972.5	1025.3	1120.7	1459.1	2009.4	4540.9	8372.3	8662.3	8713.2	8133.2
70°	825.6	833.9	889.4	977.7	1236.7	1715.6	3375.1	7894.1	8232.4	8323.3	7626.6
72.5°	654.1	665.1	735.3	824.3	1014.4	1409.4	2375.5	7113.0	7704.0	7722.6	6919.6
75°	426.6	435.0	536.8	661.2	820.4	1116.2	1569.3	5445.7	6804.3	6919.0	5931.0
77.5°	252.0	263.6	313.9	364.1	519.4	841.0	1019.5	2900.1	5012.0	5377.4	4680.1
80°	68.3	75.4	237.8	277.8	331.9	362.8	627.7	1600.9	2320.1	2945.9	3152.1
82.5°	35.4	43.8	132.8	178.5	190.1	184.3	290.0	744.4	1134.3	1328.9	1582.8
85°	16.1	19.3	43.8	65.1	52.8	50.3	96.7	388.6	634.2	736.0	795.9
87.5°	5.8	7.1	15.5	23.8	14.2	11.0	13.5	117.3	244.9	309.3	281.0
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°	2241.5	2241.5	2241.5	2241.5	2241.5	2241.5	2241.5	2241.5	2241.5	2241.5	2241.5
2.5°	2211.2	2230.5	2204.7	2175.1	2154.5	2142.9	2133.2	2111.3	2117.7	2126.1	2124.8
5°	2232.4	2235.0	2175.1	2137.1	2091.9	2066.2	2056.5	2019.1	2023.0	2026.8	2026.2
7.5°	2246.0	2222.1	2149.3	2093.9	2046.2	2006.9	1970.1	1932.8	1925.7	1932.8	1938.6
10°	2249.8	2213.7	2131.3	2053.9	1989.5	1933.4	1901.2	1842.5	1832.2	1846.4	1855.4
12.5°	2285.3	2225.3	2118.4	2027.5	1952.1	1878.0	1821.9	1756.8	1725.9	1737.5	1748.4
15°	2329.1	2246.0	2107.4	1994.0	1893.4	1810.3	1736.8	1666.6	1627.9	1643.4	1651.1
17.5°	2381.9	2284.0	2106.8	1939.2	1830.9	1730.4	1656.3	1580.2	1508.7	1533.8	1525.5
20°	2440.6	2316.9	2102.9	1888.3	1754.2	1633.1	1534.5	1484.2	1410.1	1410.7	1399.8
22.5°	2510.2	2362.0	2098.4	1840.0	1660.8	1538.3	1415.2	1357.2	1296.7	1274.1	1267.0
25°	2619.8	2434.2	2106.1	1807.1	1580.2	1414.6	1270.2	1195.5	1169.7	1141.4	1129.1
27.5°	2768.6	2534.7	2122.9	1765.2	1479.1	1283.8	1106.5	1034.4	1016.3	995.1	980.9
30°	2987.1	2678.4	2142.9	1717.5	1361.8	1106.5	943.5	891.3	862.3	851.3	843.0
32.5°	3542.0	3082.5	2158.3	1655.0	1240.0	935.8	817.8	765.6	725.0	705.7	707.6
35°	4111.1	3572.3	2267.9	1580.2	1090.4	793.3	707.6	643.2	593.6	580.7	571.6
37.5°	4557.0	3975.1	2518.6	1504.8	947.4	710.8	599.4	543.3	501.4	498.2	518.2
40°	4977.9	4345.0	2725.5	1417.8	799.1	616.8	489.8	467.2	448.5	453.1	480.1
42.5°	5327.2	4676.9	2895.6	1292.8	679.3	510.4	418.3	442.1	447.9	453.7	455.6
45°	5669.4	4938.6	2987.7	1129.1	573.6	424.7	410.5	455.0	464.7	473.0	462.7
47.5°	6022.5	5233.7	2986.5	928.0	494.3	415.0	426.6	455.0	471.7	482.1	478.8
50°	6304.8	5452.8	2948.4	730.2	474.3	437.6	435.0	436.3	463.4	470.5	471.1
52.5°	6572.3	5659.7	2791.8	600.0	502.0	463.4	444.7	429.2	440.8	457.6	438.9
55°	6833.3	5839.5	2514.1	564.6	515.6	485.3	464.7	437.6	426.0	422.1	428.6
57.5°	7047.9	5989.0	2188.0	548.4	519.4	487.2	498.8	436.9	424.1	394.4	391.2
60°	7257.3	6130.8	1867.0	525.9	516.2	483.4	465.3	447.9	417.0	372.5	356.4
62.5°	7387.5	6174.6	1531.3	506.6	502.0	478.8	453.7	445.3	409.9	375.7	371.2
63°	7368.8	6143.7	1472.6	503.3	498.8	475.6	454.3	442.1	406.7	379.6	377.7
65°	7413.9	5966.5	1213.5	483.4	485.3	466.6	444.7	422.8	377.7	358.3	355.1
67.5°	7200.0	5643.0	875.8	446.6	464.7	452.4	425.3	385.4	343.5	318.4	317.1
70°	6638.7	5030.1	601.9	380.9	431.8	432.4	415.7	364.1	318.4	290.0	293.9
72.5°	5845.3	4395.3	388.0	296.5	371.2	397.6	388.0	344.1	284.2	232.7	228.8
75°	4994.0	3584.5	286.1	239.1	273.9	353.8	339.0	280.3	238.5	205.6	203.0
77.5°	3748.2	2592.0	253.3	204.3	203.7	239.7	279.1	275.8	282.9	340.3	332.5
80°	2594.6	1829.0	201.7	165.6	124.4	151.4	235.2	291.9	364.1	211.4	198.5
82.5°	1501.6	993.1	65.7	52.2	76.0	98.0	172.7	362.8	241.0	126.3	113.4
85°	707.0	377.0	28.4	16.1	22.6	32.9	97.3	306.8	154.0	63.2	11.6
87.5°	219.1	103.8	6.4	5.2	5.8	7.1	41.2	161.1	105.7	7.1	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)