

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: P286960

Luminaire Tested: **USSL-C029-D-U-T3-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-6)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-C029-D-U-T3-BZ
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K LEDS AND TYPE III OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18170.9 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 131
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

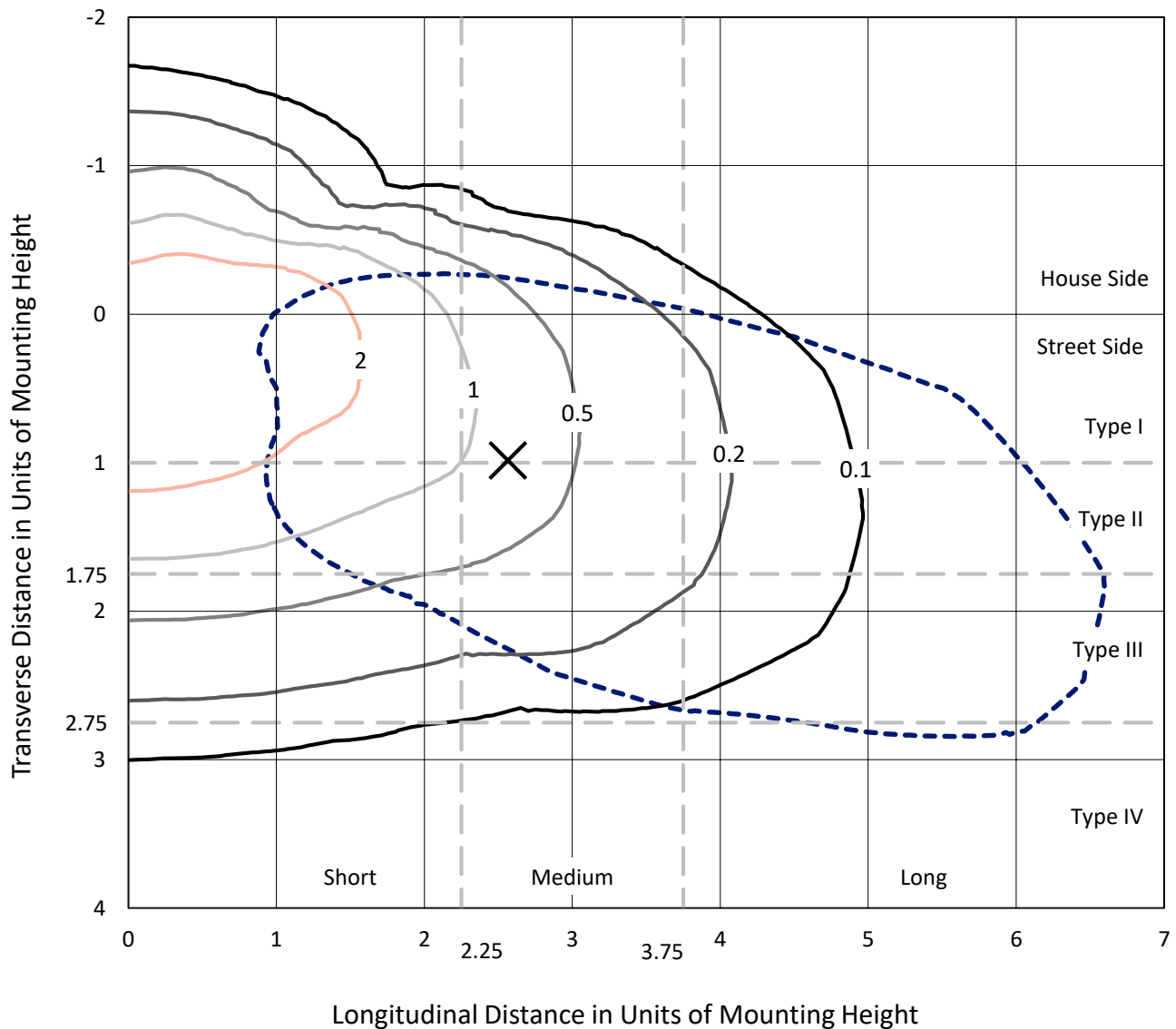


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

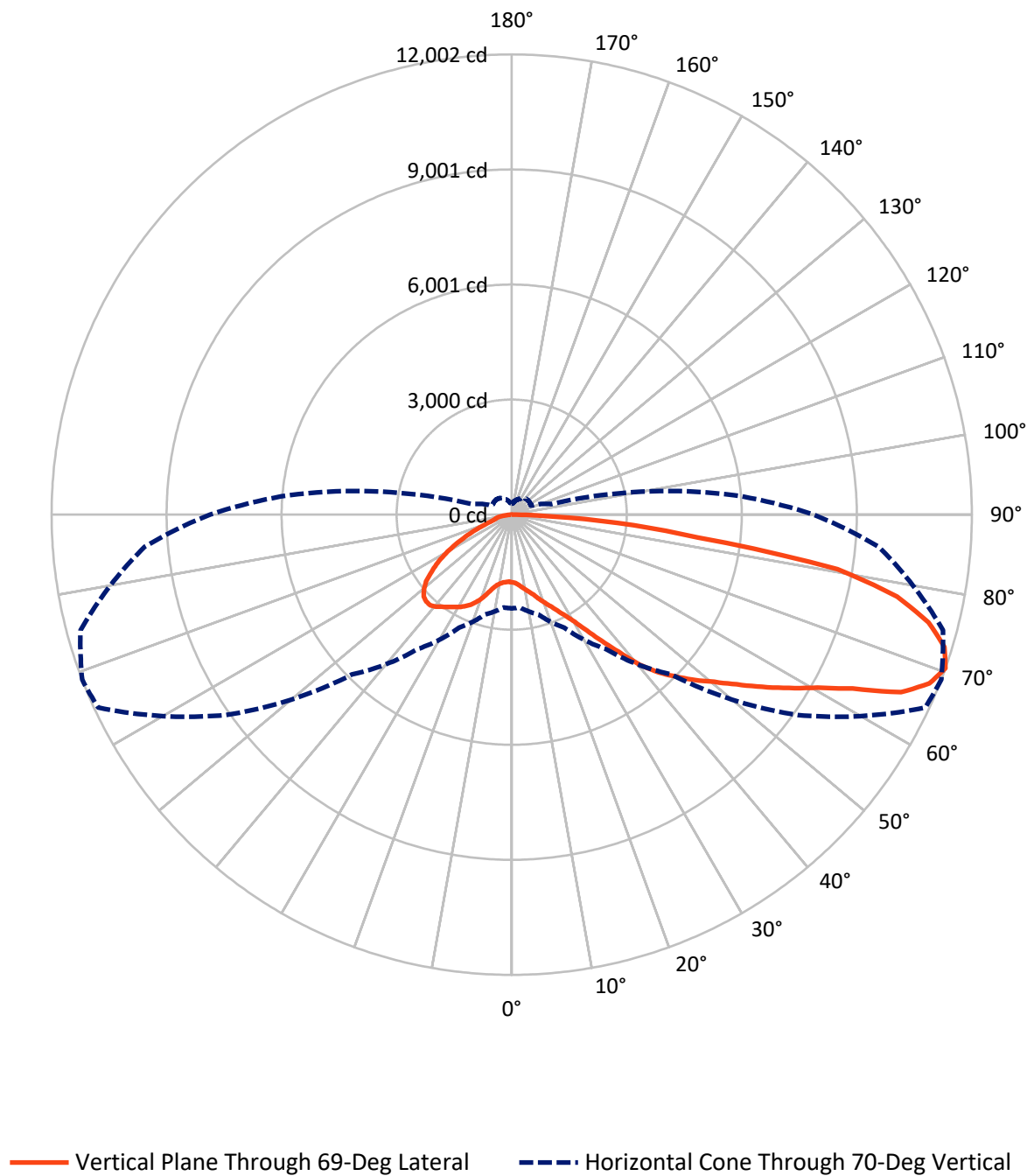


Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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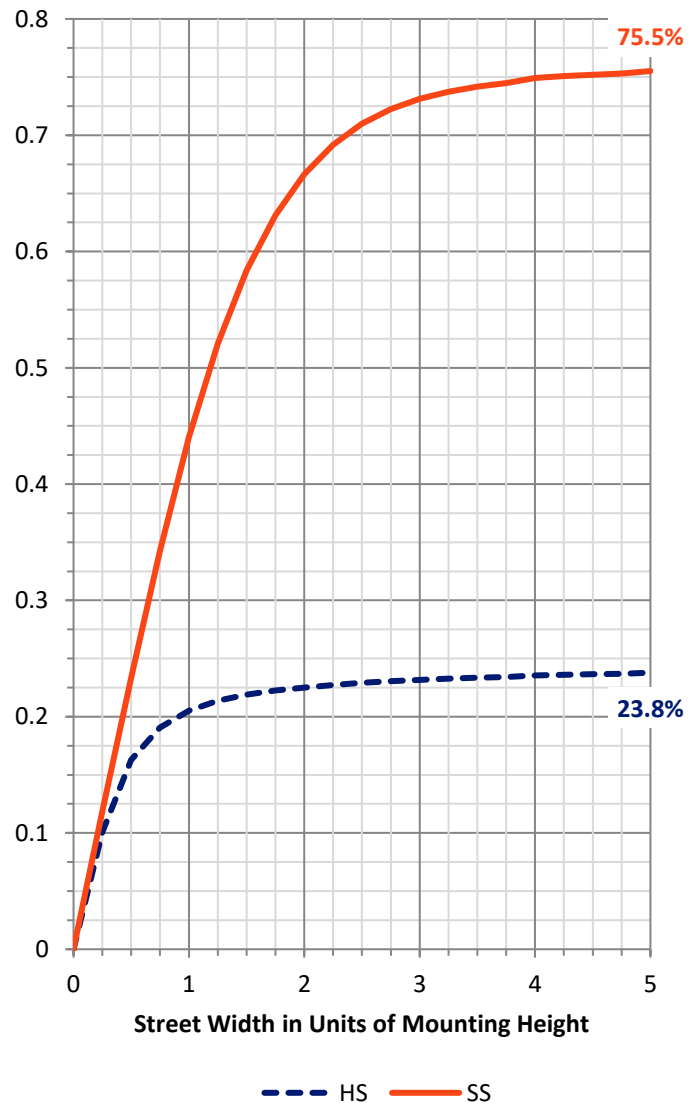
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4407.3	0.0	4407.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	13763.6	0.0	13763.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	18170.9	0.0	18170.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.8	1.0
10°-20°	574.6	3.2
20°-30°	1080.7	5.9
30°-40°	1850.1	10.2
40°-50°	2825.7	15.6
50°-60°	3654.2	20.1
60°-70°	4156.6	22.9
70°-80°	3167.2	17.4
80°-90°	687.1	3.8
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°	18170.9	100.0
0°-180°	18170.9	100.0

Coefficient of Utilization



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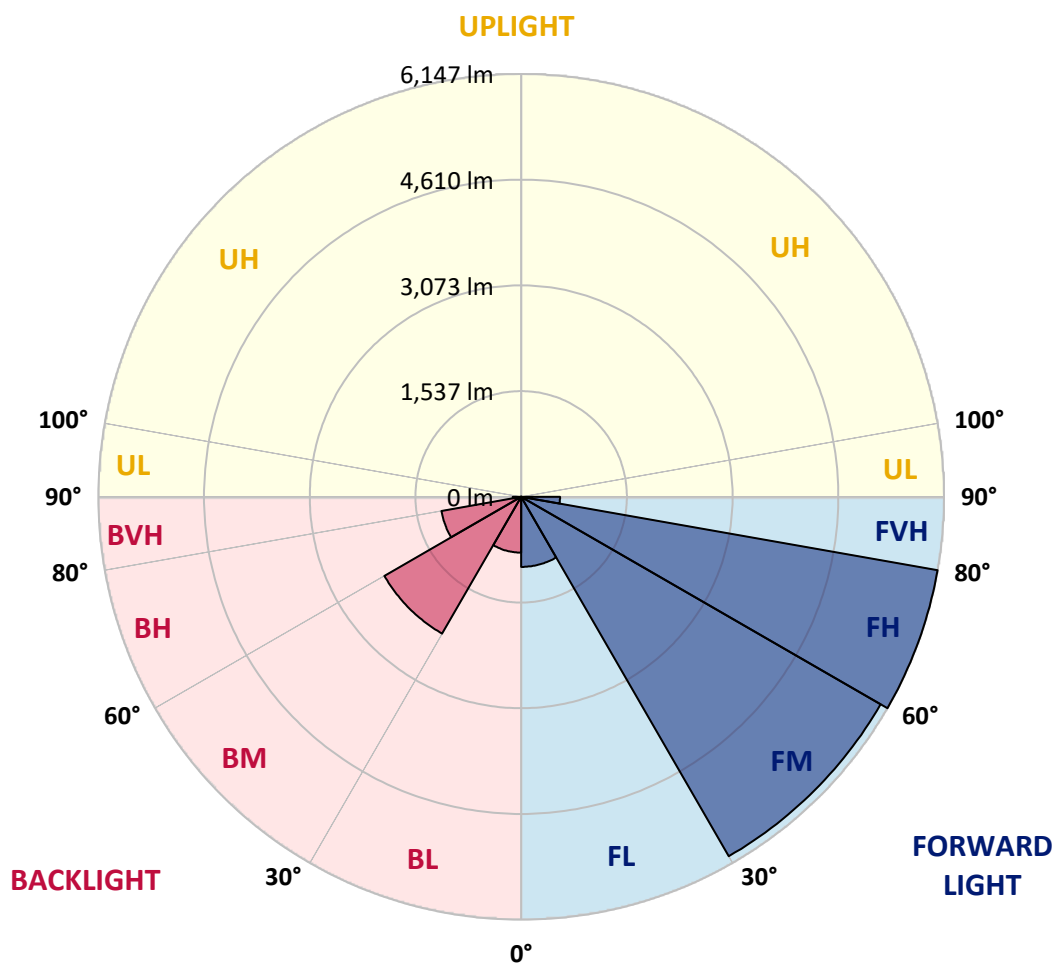
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1018.7	5.6			
FM	(30°-60°)	6033.2	33.2			
FH	(60°-80°)	6147.0	33.8			G3/7500
FVH	(80°-90°)	564.8	3.1			G4/750
BL	(0°-30°)	811.4	4.5	B2/1000		
BM	(30°-60°)	2296.7	12.6	B2/2500		
BH	(60°-80°)	1176.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	122.3	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1
2.5°	1872.5	1860.0	1861.0	1829.0	1829.9	1817.4	1810.3	1799.7	1781.9	1788.2	1758.8
5°	1963.1	1946.2	1951.6	1913.3	1911.6	1894.7	1877.0	1845.0	1837.0	1833.4	1807.7
7.5°	2022.6	2019.1	2016.5	1996.9	1995.0	1975.5	1958.7	1924.0	1910.7	1894.7	1861.8
10°	2080.4	2083.0	2085.7	2052.0	2073.3	2050.2	2031.5	2003.1	1985.3	1980.0	1929.3
12.5°	2109.6	2112.4	2126.6	2116.8	2129.2	2141.6	2123.0	2093.7	2075.9	2075.9	2017.3
15°	2135.5	2142.6	2166.5	2174.5	2196.7	2207.3	2221.6	2202.9	2176.3	2171.8	2123.0
17.5°	2178.9	2175.4	2196.7	2232.3	2258.0	2278.5	2318.4	2313.1	2311.3	2299.8	2264.3
20°	2237.6	2231.4	2252.7	2267.8	2307.7	2369.1	2423.2	2450.8	2449.0	2442.8	2411.7
22.5°	2301.6	2295.3	2296.2	2307.7	2362.0	2454.3	2537.8	2590.3	2591.1	2594.6	2623.1
25°	2410.8	2385.1	2377.0	2386.8	2451.7	2564.4	2672.0	2758.2	2775.0	2795.5	2886.0
27.5°	2675.5	2687.9	2579.6	2509.4	2563.6	2702.2	2828.3	2955.3	2981.9	3043.3	3224.4
30°	3086.7	3066.4	3011.3	2858.6	2735.1	2858.6	3036.2	3193.4	3244.0	3400.4	3563.8
32.5°	3397.7	3398.6	3372.0	3242.2	3071.7	3041.5	3242.2	3502.5	3602.9	3893.3	4039.9
35°	3713.0	3699.7	3722.8	3600.3	3449.2	3341.8	3466.9	3810.8	4040.8	4470.8	4549.8
37.5°	4008.9	4013.3	4018.6	3900.4	3828.5	3791.2	3777.0	4209.6	4540.0	5007.3	5057.0
40°	4228.3	4252.2	4269.1	4204.3	4178.4	4180.2	4119.0	4683.1	5140.5	5600.6	5543.8
42.5°	4403.2	4430.8	4553.3	4466.3	4503.6	4578.2	4567.5	5057.9	5627.3	6055.4	5989.7
45°	4549.8	4550.7	4636.0	4670.6	4803.9	4945.1	4956.6	5457.6	6030.6	6465.8	6339.7
47.5°	4651.1	4633.2	4699.9	4841.2	5086.4	5252.4	5362.6	5909.8	6447.2	6833.6	6697.7
50°	4682.1	4707.0	4818.1	4997.5	5324.4	5586.4	5818.3	6482.7	6853.1	7193.3	6988.1
52.5°	4739.9	4750.6	4906.0	5140.5	5566.0	5915.1	6146.0	7074.3	7352.3	7562.0	7343.4
55°	4788.7	4818.9	4967.3	5216.0	5718.8	6181.5	6493.4	7613.5	7927.1	7967.9	7715.6
57.5°	4613.7	4643.1	4906.9	5237.3	5845.8	6396.5	6874.4	8137.6	8527.5	8458.2	8040.7
60°	4290.4	4324.2	4640.5	5178.7	5866.2	6636.4	7373.6	8833.9	9161.8	9078.3	8406.7
62.5°	3997.3	3999.1	4341.0	4927.4	5769.5	6800.7	7980.3	9734.8	9981.7	9835.1	8812.6
65°	3610.9	3607.4	3916.4	4523.1	5495.8	6750.1	8453.8	10834.4	11161.3	10745.6	9200.9
67.5°	3088.5	3077.9	3390.6	3952.9	4987.7	6489.8	8855.4	11582.4	11751.1	11410.0	9510.9
70°	2441.9	2430.4	2695.0	3252.9	4279.8	5895.6	9108.5	11902.1	12001.7	11645.4	9608.6
72.5°	1712.6	1705.5	1863.6	2305.1	3274.2	4960.2	9054.3	11742.2	11805.3	11399.3	9321.7
75°	1013.6	1010.8	1158.4	1410.6	1935.6	3696.2	8442.3	11156.0	11231.4	10862.8	8617.3
77.5°	390.9	362.4	565.9	686.6	1100.6	1731.2	6457.9	10103.4	10278.4	9931.9	7592.2
80°	127.9	132.4	397.0	485.0	638.7	775.4	3455.4	8199.8	8614.5	8392.5	5750.8
82.5°	93.3	95.9	247.0	327.8	422.8	525.8	1307.6	4457.4	4894.4	4818.9	2822.9
85°	61.3	61.3	84.4	116.4	158.1	210.5	366.8	2262.5	2773.2	2690.7	1223.1
87.5°	32.9	33.7	48.9	70.2	95.1	111.1	117.2	462.8	631.6	549.9	244.3
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°	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1
2.5°	1749.9	1767.7	1754.3	1743.7	1725.9	1716.2	1718.8	1709.9	1702.0	1722.3	1712.6
5°	1798.8	1810.3	1775.7	1755.3	1726.8	1702.8	1701.0	1681.5	1671.8	1679.7	1683.3
7.5°	1840.5	1849.4	1803.2	1766.7	1738.3	1709.9	1690.4	1656.6	1643.4	1657.6	1662.9
10°	1912.5	1901.8	1845.8	1805.0	1763.2	1728.6	1695.7	1663.7	1639.8	1640.6	1642.4
12.5°	1994.2	1964.8	1915.1	1857.4	1812.1	1777.5	1732.2	1677.9	1639.8	1638.9	1645.1
15°	2107.9	2072.4	2028.9	1960.5	1909.8	1860.0	1787.2	1693.1	1632.7	1611.4	1602.5
17.5°	2250.1	2202.9	2187.8	2108.8	2025.3	1930.3	1813.9	1699.3	1592.7	1552.8	1554.4
20°	2420.6	2405.4	2385.9	2256.2	2136.3	1976.4	1826.3	1670.8	1527.8	1457.7	1450.6
22.5°	2660.5	2653.4	2560.9	2383.3	2199.4	2006.6	1815.6	1610.4	1438.2	1351.1	1333.4
25°	2937.5	2879.9	2708.4	2490.8	2249.1	2014.7	1773.0	1522.5	1332.4	1224.1	1218.8
27.5°	3213.0	3110.8	2858.6	2558.3	2253.6	1983.5	1683.3	1402.6	1227.6	1126.4	1113.0
30°	3533.6	3395.9	3010.4	2607.1	2243.8	1905.4	1558.1	1302.2	1158.4	1058.0	1042.8
32.5°	3938.7	3705.0	3160.5	2629.3	2178.1	1800.6	1424.8	1258.7	1107.7	992.2	974.5
35°	4423.7	4112.7	3363.9	2628.4	2091.9	1638.0	1357.3	1233.8	1072.2	930.1	903.4
37.5°	4888.3	4569.3	3594.0	2617.7	1954.2	1468.4	1310.2	1193.9	1048.1	917.6	902.5
40°	5316.4	4944.2	3872.9	2598.2	1792.6	1365.3	1257.8	1131.7	1019.7	929.1	912.3
42.5°	5715.2	5297.7	4122.5	2549.4	1614.9	1292.4	1186.8	1089.9	989.5	874.9	849.2
45°	6075.9	5596.2	4294.8	2434.0	1420.4	1211.6	1106.9	1033.9	934.5	817.2	796.8
47.5°	6377.0	5868.0	4416.6	2278.5	1263.2	1126.4	1014.4	954.9	867.0	759.5	732.8
50°	6640.8	6137.1	4499.2	2013.7	1125.5	1039.3	923.0	858.1	779.0	702.6	684.0
52.5°	6898.5	6409.9	4595.1	1660.2	995.8	938.0	818.1	746.2	686.6	651.1	638.7
55°	7238.6	6757.2	4595.1	1217.0	876.7	857.2	727.5	632.4	590.7	565.9	572.0
57.5°	7546.0	6970.3	4401.4	906.0	801.3	773.7	628.9	535.7	491.3	497.4	516.1
60°	7886.2	7173.8	3861.4	749.7	737.3	659.2	536.5	470.8	447.7	425.4	422.8
62.5°	8119.8	7203.1	3167.6	661.8	673.4	581.8	501.9	433.5	407.7	375.7	368.6
65°	8380.9	7045.9	2383.3	620.9	616.4	552.5	494.8	428.2	392.6	340.2	331.3
67.5°	8285.0	6581.3	1692.2	574.7	576.5	556.0	506.3	427.2	384.6	327.8	321.6
70°	7868.4	5828.9	1060.6	553.4	568.5	563.1	526.8	449.5	382.0	297.6	288.7
72.5°	7281.3	4860.7	593.3	513.4	564.1	567.6	551.7	469.9	350.0	243.4	238.1
75°	6318.4	3709.4	424.6	475.3	542.8	566.7	541.0	452.2	320.6	229.2	222.0
77.5°	4939.8	2174.5	373.9	438.0	502.8	506.3	536.5	469.9	333.1	232.8	224.7
80°	2671.1	899.9	314.5	385.5	413.0	478.8	520.5	438.8	308.2	187.4	175.8
82.5°	1083.7	254.1	182.9	245.2	334.9	395.2	463.7	388.1	282.5	156.3	147.4
85°	277.2	87.0	85.3	125.3	200.7	295.8	376.6	332.2	230.1	69.3	4.5
87.5°	34.7	28.4	33.7	69.3	130.6	212.3	276.2	239.9	163.4	0.8	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)