

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: P287041

Luminaire Tested: **USSL-C02-D-U-T4-BZ-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P287041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-9)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-C02-D-U-T4-BZ-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18149 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 153
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

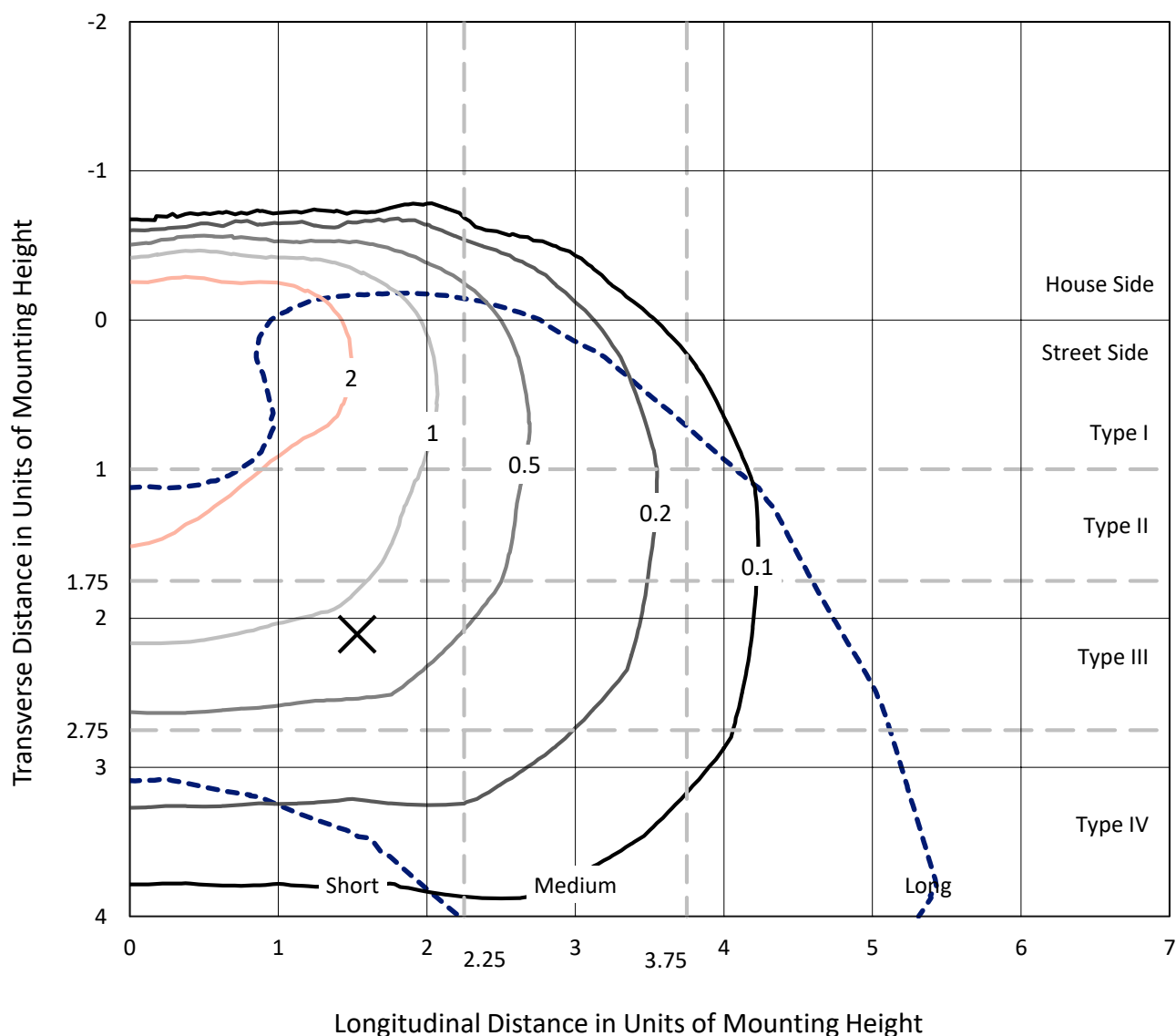


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

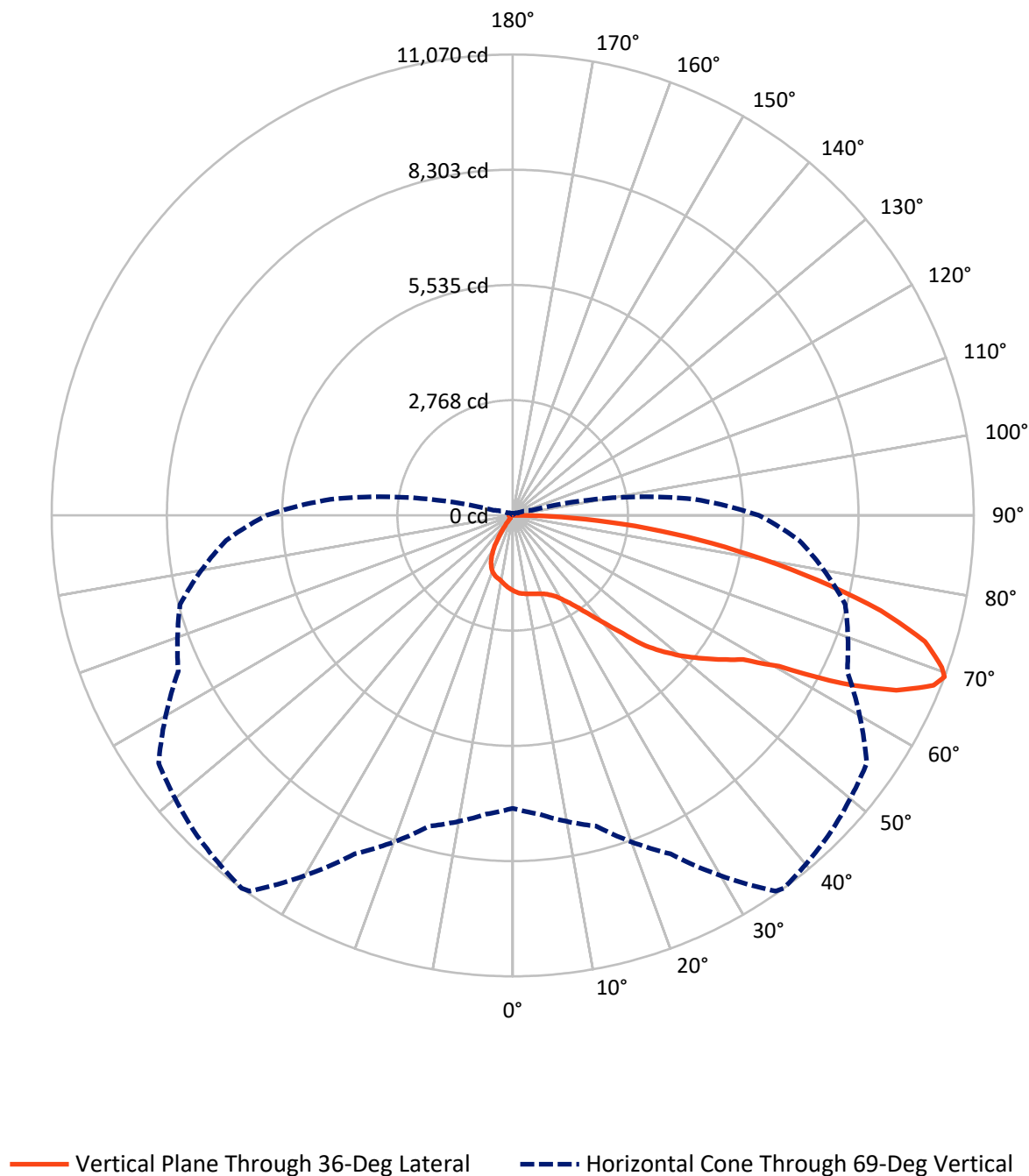


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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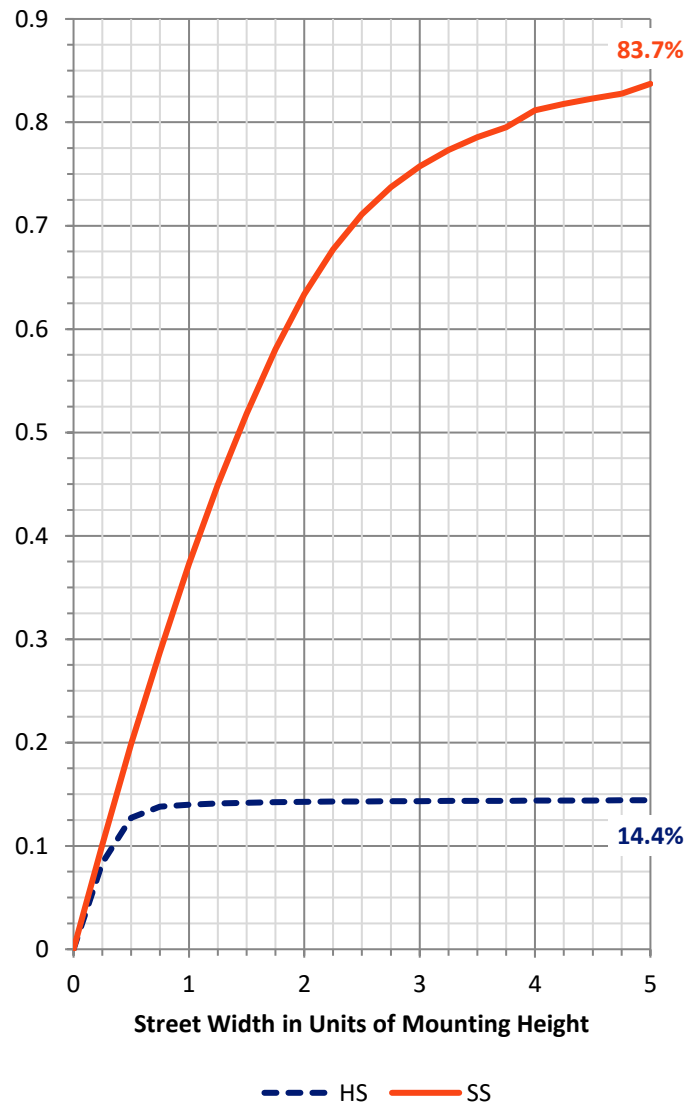
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2646.3	0.0	2646.3
	% Fixture	14.6	0.0	14.6
Street Side	Lumens	15502.7	0.0	15502.7
	% Fixture	85.4	0.0	85.4
Total	Lumens	18149.0	0.0	18149.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	0.9
10°-20°	512.4	2.8
20°-30°	858.6	4.7
30°-40°	1388.6	7.7
40°-50°	2449.3	13.5
50°-60°	3570.1	19.7
60°-70°	4715.4	26.0
70°-80°	3625.7	20.0
80°-90°	857.2	4.7
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°	18149.0	100.0
0°-180°	18149.0	100.0

Coefficient of Utilization



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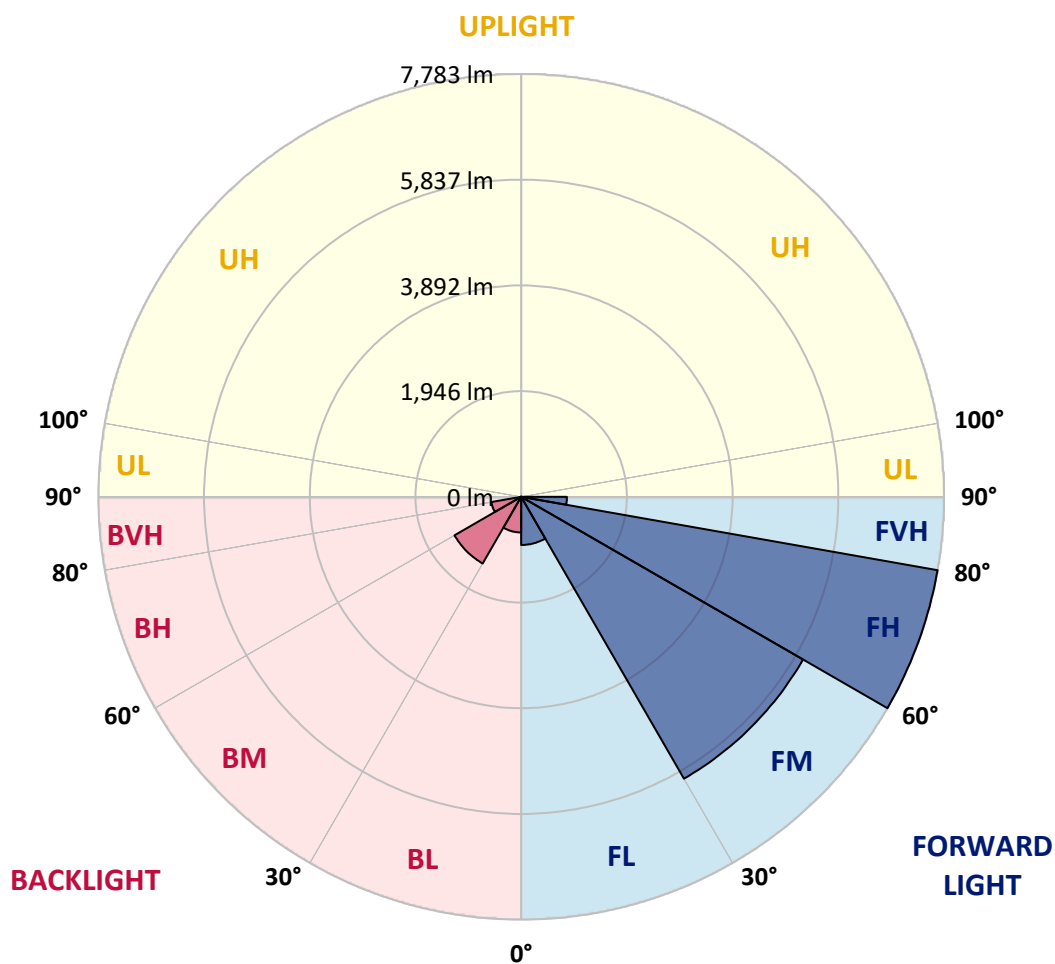
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	887.1	4.9			
FM	(30°-60°)	5991.1	33.0			
FH	(60°-80°)	7783.2	42.9			G4/12000
FVH	(80°-90°)	841.3	4.6			G5
BL	(0°-30°)	655.5	3.6	B2/1000		
BM	(30°-60°)	1417.0	7.8	B2/2500		
BH	(60°-80°)	557.9	3.1	B2/1000		G2/1000
BVH	(80°-90°)	15.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1808.3	1808.3	1808.3	1808.3	1808.3	1808.3	1808.3	1808.3	1808.3	1808.3	1808.3
2.5°	1875.0	1877.9	1869.1	1848.5	1843.6	1845.6	1847.5	1835.8	1823.0	1817.1	1803.4
5°	1908.3	1909.3	1905.3	1886.7	1881.8	1881.8	1879.9	1866.1	1853.4	1845.6	1826.0
7.5°	1917.1	1916.1	1918.1	1898.5	1903.4	1894.6	1900.4	1886.7	1875.0	1864.2	1846.5
10°	1930.8	1932.8	1930.8	1915.1	1917.1	1919.1	1918.1	1908.3	1907.3	1906.3	1875.9
12.5°	1924.0	1923.0	1928.9	1919.1	1932.8	1934.7	1956.3	1961.2	1966.1	1966.1	1934.7
15°	1919.1	1908.3	1932.8	1924.9	1953.4	1956.3	1988.7	2018.1	2023.9	2025.9	2014.1
17.5°	1925.9	1924.0	1958.3	1943.6	1983.8	1976.9	2008.3	2060.2	2087.6	2101.4	2108.2
20°	1955.3	1963.2	1991.6	1976.9	2010.2	2010.2	2044.5	2100.4	2152.3	2186.6	2193.5
22.5°	2000.4	2003.4	2036.7	2022.0	2048.4	2051.4	2080.8	2146.5	2217.0	2274.8	2304.3
25°	2048.4	2046.5	2073.9	2074.9	2110.2	2119.0	2144.5	2197.4	2290.5	2366.0	2446.4
27.5°	2119.0	2115.1	2147.4	2137.6	2203.3	2202.3	2231.7	2294.4	2399.3	2498.3	2620.8
30°	2233.7	2223.9	2243.5	2259.2	2333.7	2336.6	2363.1	2424.8	2530.7	2674.7	2823.7
32.5°	2418.9	2426.8	2424.8	2405.2	2499.3	2505.2	2569.9	2669.8	2777.6	2951.1	3125.6
35°	2809.0	2808.0	2755.1	2705.1	2713.9	2731.6	2815.9	2996.2	3216.7	3626.4	3780.3
37.5°	3294.2	3317.7	3224.6	3080.5	3033.5	3030.5	3104.0	3371.6	3732.3	4523.2	4585.0
40°	3936.1	3892.0	3779.3	3557.8	3439.2	3405.9	3430.4	3745.0	4298.8	5287.7	5228.9
42.5°	4372.3	4391.9	4268.4	4079.2	3902.8	3877.3	3819.5	4155.7	4912.3	5897.4	5732.7
45°	4895.7	4934.9	4798.6	4664.4	4486.0	4470.3	4383.1	4579.1	5502.4	6349.2	6126.7
47.5°	5351.4	5378.9	5161.3	5035.8	4907.4	4894.7	4812.4	5006.4	6015.0	6720.6	6449.2
50°	5842.5	5865.0	5627.8	5449.4	5327.9	5316.1	5270.1	5485.7	6534.4	7071.5	6715.7
52.5°	6468.8	6384.5	6096.3	5853.2	5718.0	5702.3	5724.9	5964.0	7026.4	7324.4	6929.4
55°	7201.9	6972.5	6604.0	6300.2	6098.3	6109.1	6135.5	6450.1	7445.0	7569.4	7090.2
57.5°	7643.9	7656.7	7380.3	6932.4	6549.1	6527.6	6508.0	6891.2	7785.1	7840.9	7246.0
60°	8234.9	8275.1	8238.8	7962.5	7445.9	7353.8	7034.3	7383.2	8145.7	8060.5	7339.1
62.5°	8683.8	8749.5	8961.2	8790.7	8850.4	8889.6	8010.5	7972.3	8477.0	8210.4	7358.7
65°	8580.9	8643.6	9077.8	9413.0	10044.2	10127.5	9906.0	8722.0	8735.8	8277.1	7296.0
67.5°	7801.7	7866.4	8395.7	9298.4	10804.8	10898.9	10662.7	10023.6	8864.2	8280.0	7136.2
69°	7034.3	7200.9	7724.3	8968.1	11017.5	11070.4	10783.2	10378.4	8862.2	8268.3	6910.8
70°	6575.6	6708.9	7302.8	8586.8	10906.7	10932.2	10710.7	10521.5	8828.9	8165.3	6699.1
72.5°	5286.7	5257.3	5889.5	7279.3	10370.6	10354.9	10379.4	10329.4	8768.1	7789.0	5806.2
75°	3832.2	3843.0	4428.2	5727.8	9017.1	9131.7	9621.8	9918.8	8177.1	6793.2	4272.3
77.5°	2723.7	2746.3	3249.1	4385.0	7432.2	7486.1	8384.9	8700.5	6880.4	5344.6	2328.8
80°	1823.0	1842.6	2313.1	3233.4	5676.8	5799.3	6779.5	6850.0	5207.4	3307.9	421.4
82.5°	1139.9	1149.7	1514.3	2303.3	4142.0	4201.8	4655.5	4519.3	2707.1	737.0	125.5
85°	653.7	665.5	928.2	1458.4	2615.9	2638.5	2941.3	2235.6	648.8	99.0	68.6
87.5°	187.2	200.9	384.2	629.2	1180.1	1171.2	1097.7	732.1	104.9	45.1	32.3
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°	1808.3	1808.3	1808.3	1808.3	1808.3	1808.3	1808.3	1808.3	1808.3	1808.3	1808.3
2.5°	1792.6	1807.3	1789.7	1776.9	1762.2	1764.2	1764.2	1747.5	1747.5	1771.1	1774.0
5°	1815.2	1826.0	1795.6	1771.1	1739.7	1732.8	1713.2	1693.6	1686.8	1707.4	1710.3
7.5°	1835.8	1829.9	1793.6	1754.4	1713.2	1680.9	1656.4	1624.1	1609.3	1632.9	1636.8
10°	1856.3	1838.7	1801.5	1754.4	1688.7	1641.7	1605.4	1547.6	1531.9	1543.7	1549.6
12.5°	1913.2	1889.7	1846.5	1765.2	1690.7	1627.0	1556.4	1483.9	1446.6	1460.4	1468.2
15°	1997.5	1962.2	1917.1	1817.1	1714.2	1622.1	1526.0	1411.4	1343.7	1335.9	1337.9
17.5°	2097.4	2060.2	2000.4	1878.9	1747.5	1622.1	1480.0	1335.9	1224.2	1191.8	1195.7
20°	2198.4	2157.2	2109.2	1950.4	1778.9	1597.6	1423.1	1234.9	1075.2	1001.7	1001.7
22.5°	2314.1	2284.6	2204.3	2007.3	1789.7	1559.4	1335.9	1098.7	902.7	794.9	791.0
25°	2464.0	2437.5	2289.5	2052.4	1780.9	1511.3	1223.2	938.0	694.9	585.1	579.2
27.5°	2631.6	2579.7	2372.9	2085.7	1750.5	1433.9	1073.2	734.1	484.2	380.3	375.4
30°	2817.8	2742.4	2436.6	2079.8	1694.6	1303.6	896.8	493.0	282.3	213.7	213.7
32.5°	3085.4	2948.2	2512.0	2066.1	1617.2	1147.7	658.6	292.1	141.1	108.8	108.8
35°	3607.8	3350.0	2626.7	2028.8	1491.7	941.9	414.6	131.3	77.4	76.4	76.4
37.5°	4308.6	3868.5	2811.0	1974.0	1319.2	685.1	206.8	72.5	72.5	74.5	73.5
40°	4923.1	4427.2	3057.0	1890.6	1130.1	432.2	94.1	69.6	73.5	76.4	76.4
42.5°	5379.9	4858.4	3295.1	1769.1	902.7	220.5	78.4	67.6	70.6	71.5	72.5
45°	5767.0	5221.1	3485.3	1615.2	660.6	104.9	78.4	66.6	66.6	66.6	67.6
47.5°	6064.0	5486.7	3615.6	1433.9	410.7	88.2	82.3	65.7	61.7	59.8	60.8
50°	6296.3	5671.9	3661.7	1232.0	202.9	89.2	80.4	61.7	53.9	54.9	55.9
52.5°	6459.9	5821.9	3612.7	980.1	104.9	94.1	81.3	59.8	48.0	51.0	51.0
55°	6611.9	5859.1	3488.2	696.9	94.1	95.1	81.3	54.9	41.2	47.0	50.0
57.5°	6650.1	5858.1	3293.2	438.1	101.0	90.2	77.4	53.9	39.2	47.0	49.0
60°	6706.9	5810.1	3025.6	267.6	105.9	83.3	72.5	51.0	37.2	39.2	41.2
62.5°	6645.2	5727.8	2624.7	177.4	101.9	77.4	70.6	49.0	32.3	29.4	28.4
65°	6524.6	5452.4	1980.8	143.1	95.1	75.5	63.7	43.1	26.5	18.6	17.6
67.5°	6243.3	4929.0	1047.7	135.3	89.2	74.5	56.8	40.2	21.6	10.8	9.8
69°	5912.1	4398.8	475.4	137.2	103.9	74.5	57.8	35.3	19.6	7.8	6.9
70°	5566.1	3914.6	216.6	133.3	112.7	78.4	56.8	32.3	17.6	6.9	5.9
72.5°	4292.9	2433.6	148.0	118.6	125.5	76.4	56.8	30.4	16.7	3.9	2.9
75°	2548.3	603.8	133.3	94.1	119.6	93.1	68.6	33.3	14.7	2.0	0.0
77.5°	660.6	168.6	112.7	71.5	105.9	104.9	79.4	33.3	14.7	0.0	0.0
80°	170.5	129.4	97.0	46.1	83.3	101.9	64.7	37.2	11.8	0.0	0.0
82.5°	101.9	94.1	105.9	28.4	66.6	68.6	38.2	26.5	12.7	0.0	0.0
85°	58.8	81.3	74.5	21.6	12.7	6.9	15.7	29.4	12.7	0.0	0.0
87.5°	34.3	44.1	16.7	2.9	2.9	2.0	1.0	3.9	0.0	0.0	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)