

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: P287037

Luminaire Tested: **USSL-C02-D-U-T4-BZ-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P287037
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-7030-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K 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: 17820 lumens
Efficiency: N/A
Efficacy: 116.5 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

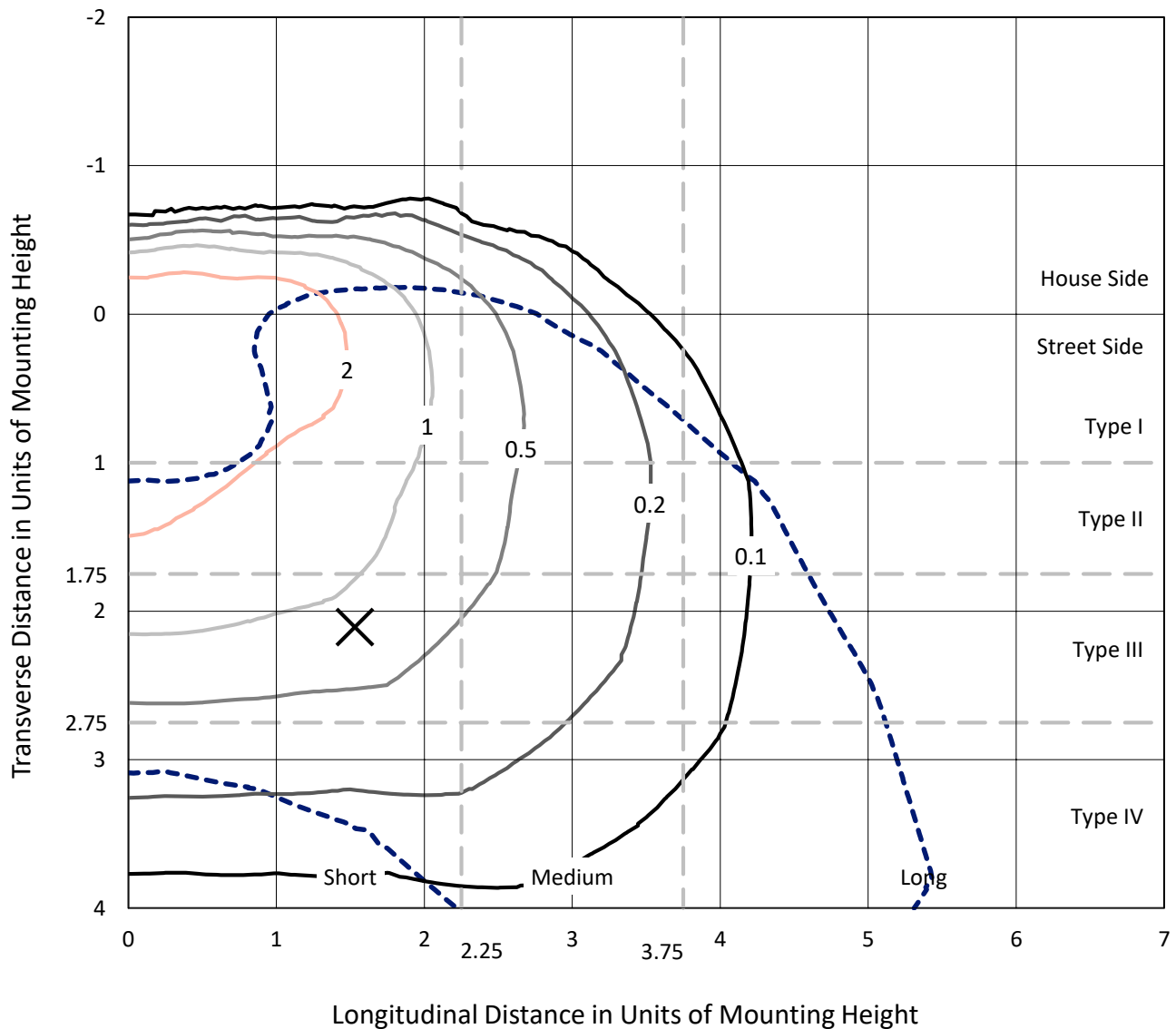


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

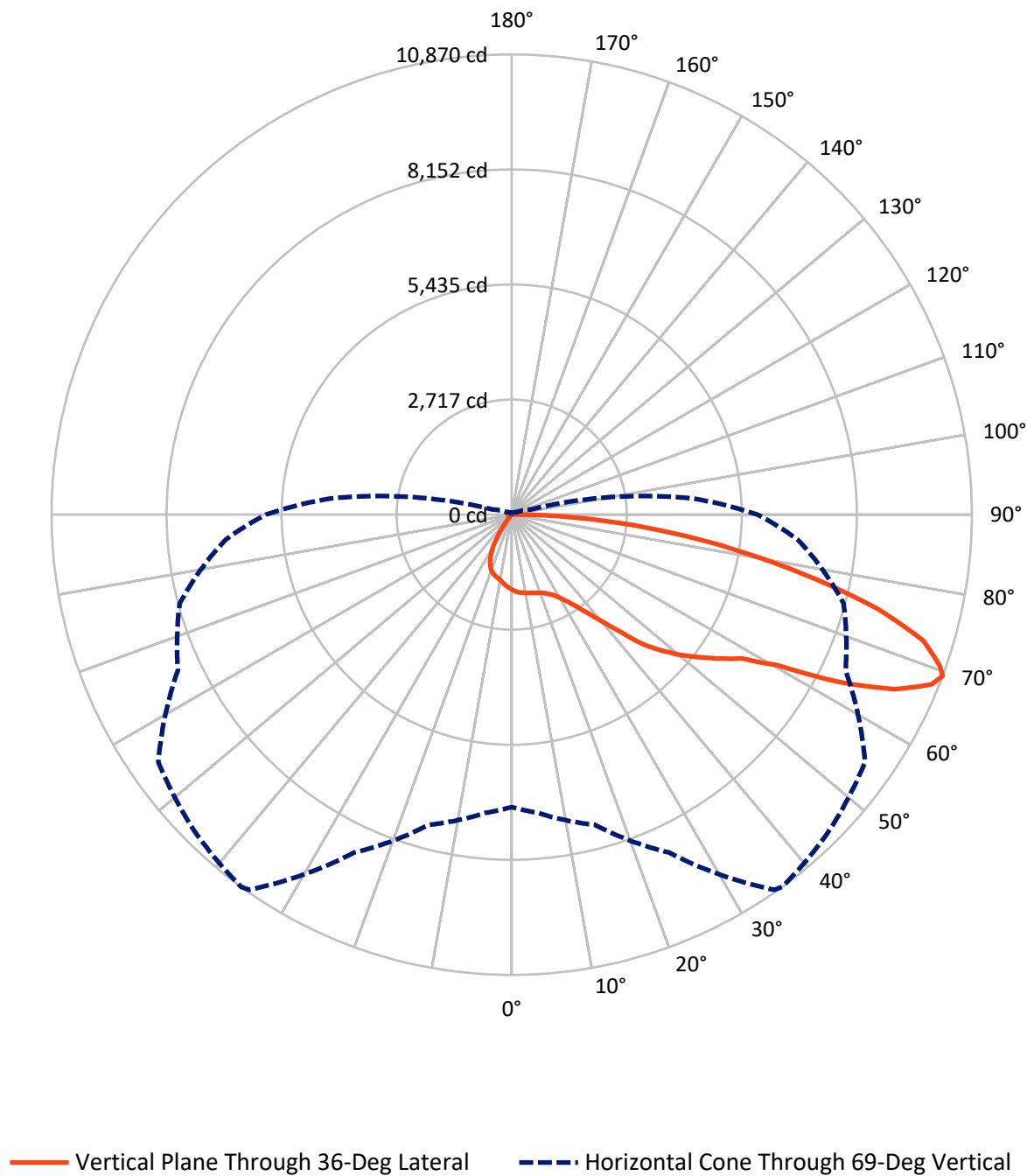


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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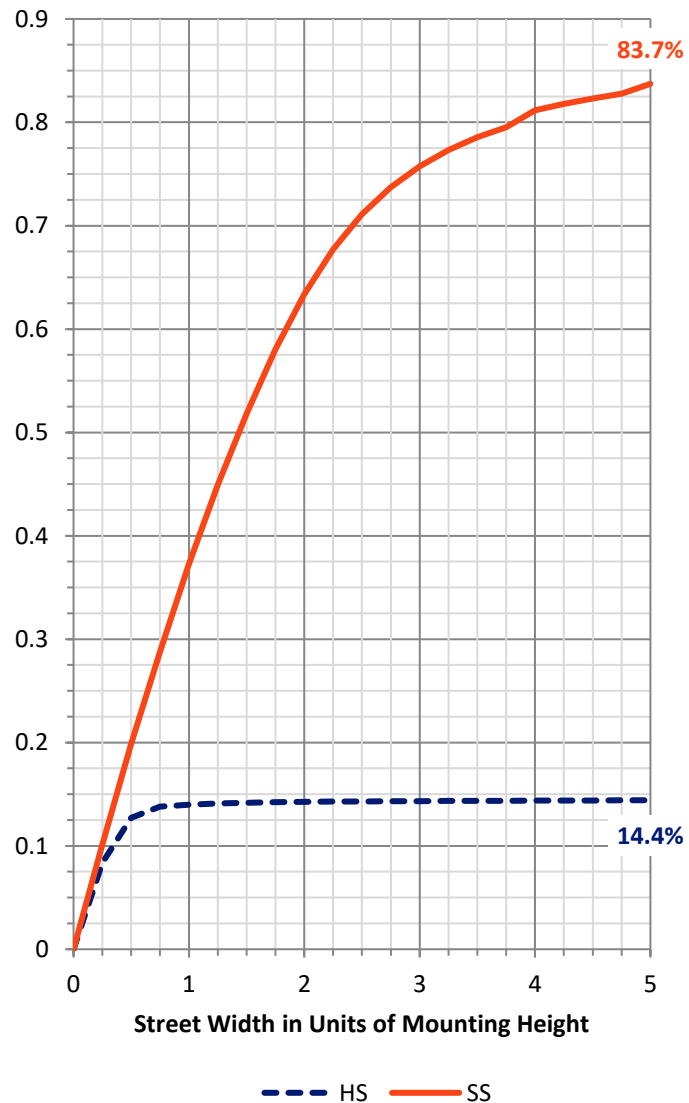
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2598.3	0.0	2598.3
	% Fixture	14.6	0.0	14.6
Street Side	Lumens	15221.7	0.0	15221.7
	% Fixture	85.4	0.0	85.4
Total	Lumens	17820.0	0.0	17820.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.5	0.9
10°-20°	503.1	2.8
20°-30°	843.1	4.7
30°-40°	1363.5	7.7
40°-50°	2404.9	13.5
50°-60°	3505.4	19.7
60°-70°	4629.9	26.0
70°-80°	3560.0	20.0
80°-90°	841.6	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°	17820.0	100.0
0°-180°	17820.0	100.0

Coefficient of Utilization



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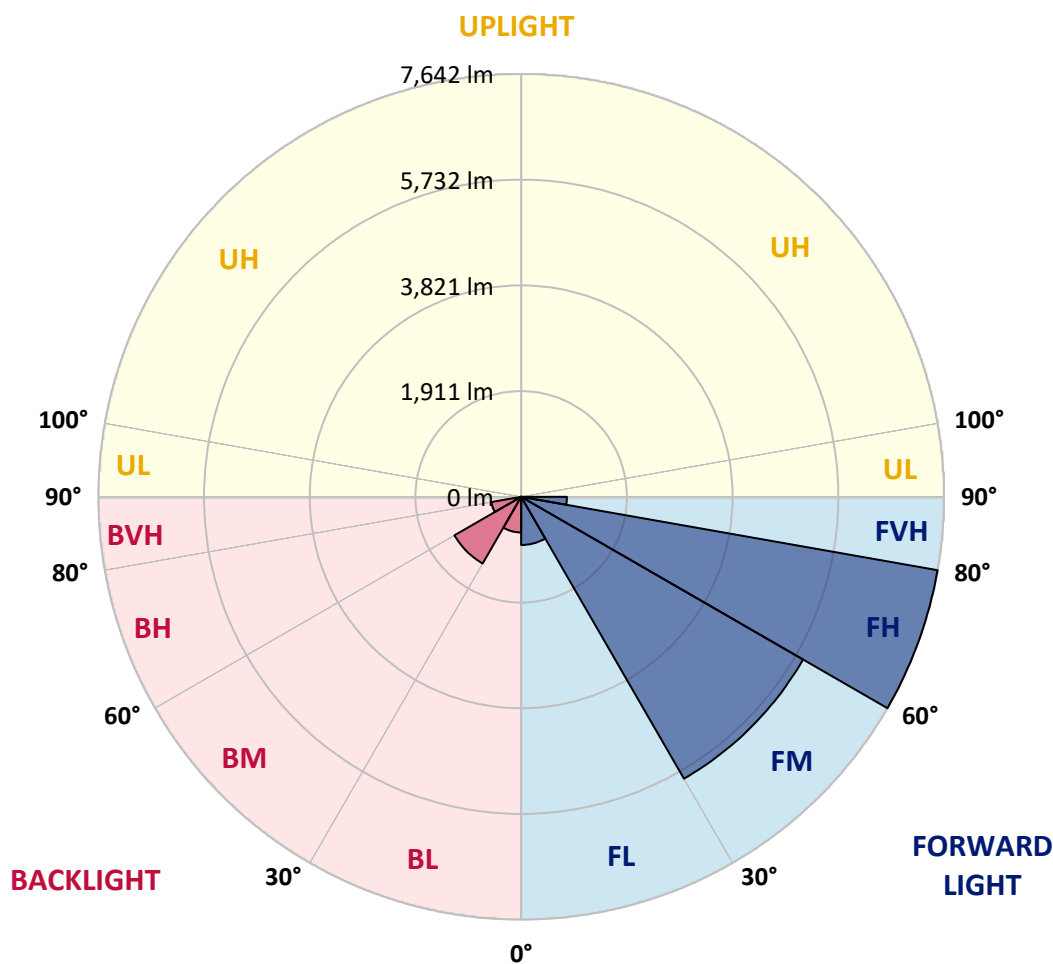
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	871.1	4.9			
FM	(30°-60°)	5882.5	33.0			
FH	(60°-80°)	7642.1	42.9			G4/12000
FVH	(80°-90°)	826.0	4.6			G5
BL	(0°-30°)	643.6	3.6	B2/1000		
BM	(30°-60°)	1391.3	7.8	B2/2500		
BH	(60°-80°)	547.8	3.1	B2/1000		G2/1000
BVH	(80°-90°)	15.6	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°	1775.5	1775.5	1775.5	1775.5	1775.5	1775.5	1775.5	1775.5	1775.5	1775.5	1775.5
2.5°	1841.0	1843.9	1835.2	1815.0	1810.2	1812.1	1814.0	1802.5	1790.0	1784.2	1770.7
5°	1873.7	1874.7	1870.8	1852.5	1847.7	1847.7	1845.8	1832.3	1819.8	1812.1	1792.9
7.5°	1882.4	1881.4	1883.3	1864.1	1868.9	1860.2	1866.0	1852.5	1841.0	1830.4	1813.1
10°	1895.8	1897.7	1895.8	1880.4	1882.4	1884.3	1883.3	1873.7	1872.7	1871.8	1841.9
12.5°	1889.1	1888.1	1893.9	1884.3	1897.7	1899.7	1920.8	1925.7	1930.5	1930.5	1899.7
15°	1884.3	1873.7	1897.7	1890.1	1918.0	1920.8	1952.6	1981.5	1987.2	1989.2	1977.6
17.5°	1891.0	1889.1	1922.8	1908.3	1947.8	1941.1	1971.9	2022.9	2049.8	2063.3	2070.0
20°	1919.9	1927.6	1955.5	1941.1	1973.8	1973.8	2007.5	2062.3	2113.3	2147.0	2153.7
22.5°	1964.2	1967.0	1999.8	1985.3	2011.3	2014.2	2043.1	2107.5	2176.8	2233.6	2262.5
25°	2011.3	2009.4	2036.3	2037.3	2071.9	2080.6	2105.6	2157.6	2249.0	2323.1	2402.0
27.5°	2080.6	2076.7	2108.5	2098.9	2163.4	2162.4	2191.3	2252.9	2355.8	2453.0	2573.3
30°	2193.2	2183.6	2202.8	2218.2	2291.3	2294.2	2320.2	2380.8	2484.8	2626.2	2772.5
32.5°	2375.1	2382.8	2380.8	2361.6	2454.0	2459.8	2523.3	2621.4	2727.3	2897.6	3068.9
35°	2758.1	2757.1	2705.2	2656.1	2664.7	2682.1	2764.8	2941.9	3158.4	3560.7	3711.8
37.5°	3234.5	3257.5	3166.1	3024.7	2978.5	2975.6	3047.8	3310.5	3664.6	4441.2	4501.9
40°	3864.8	3821.5	3710.8	3493.3	3376.9	3344.2	3368.2	3677.1	4220.9	5191.9	5134.1
42.5°	4293.0	4312.3	4191.0	4005.3	3832.1	3807.0	3750.3	4080.4	4823.3	5790.4	5628.8
45°	4806.9	4845.4	4711.7	4579.8	4404.7	4389.3	4303.6	4496.1	5402.6	6234.1	6015.6
47.5°	5254.4	5281.4	5067.7	4944.5	4818.5	4806.0	4725.1	4915.7	5905.9	6598.8	6332.2
50°	5736.6	5758.7	5525.8	5350.7	5231.3	5219.8	5174.5	5386.3	6416.0	6943.3	6594.0
52.5°	6351.5	6268.7	5985.8	5747.1	5614.3	5598.9	5621.1	5855.9	6899.1	7191.6	6803.8
55°	7071.3	6846.1	6484.3	6186.0	5987.7	5998.3	6024.3	6333.2	7310.0	7432.2	6961.6
57.5°	7505.4	7517.9	7246.5	6806.7	6430.4	6409.2	6390.0	6766.3	7643.9	7698.8	7114.6
60°	8085.6	8125.1	8089.5	7818.1	7311.0	7220.5	6906.8	7249.4	7998.1	7914.3	7206.1
62.5°	8526.4	8590.9	8798.7	8631.3	8690.0	8728.5	7865.3	7827.7	8323.3	8061.6	7225.3
65°	8425.4	8486.9	8913.3	9242.4	9862.1	9943.9	9726.4	8563.9	8577.4	8127.0	7163.7
67.5°	7660.3	7723.8	8243.5	9129.8	10608.9	10701.3	10469.4	9841.9	8703.5	8129.9	7006.9
69°	6906.8	7070.4	7584.3	8805.5	10817.8	10869.7	10587.7	10190.3	8701.5	8118.4	6785.5
70°	6456.4	6587.3	7170.5	8431.1	10709.0	10734.0	10516.5	10330.8	8668.8	8017.3	6577.6
72.5°	5190.9	5162.0	5782.7	7147.4	10182.6	10167.2	10191.3	10142.2	8609.2	7647.8	5700.9
75°	3762.8	3773.4	4347.9	5624.0	8853.6	8966.2	9447.4	9739.0	8028.9	6670.0	4194.9
77.5°	2674.4	2696.5	3190.2	4305.5	7297.5	7350.4	8232.9	8542.8	6755.7	5247.7	2286.5
80°	1790.0	1809.2	2271.1	3174.8	5573.9	5694.2	6656.6	6725.8	5113.0	3247.9	413.8
82.5°	1119.2	1128.8	1486.8	2261.5	4066.9	4125.6	4571.2	4437.4	2658.0	723.7	123.2
85°	641.9	653.4	911.3	1432.0	2568.5	2590.6	2888.0	2195.1	637.1	97.2	67.4
87.5°	183.8	197.3	377.2	617.8	1158.7	1150.0	1077.8	718.9	103.0	44.3	31.8
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°	1775.5	1775.5	1775.5	1775.5	1775.5	1775.5	1775.5	1775.5	1775.5	1775.5	1775.5
2.5°	1760.1	1774.6	1757.2	1744.7	1730.3	1732.2	1732.2	1715.9	1715.9	1739.0	1741.8
5°	1782.3	1792.9	1763.0	1739.0	1708.2	1701.4	1682.2	1662.9	1656.2	1676.4	1679.3
7.5°	1802.5	1796.7	1761.1	1722.6	1682.2	1650.4	1626.4	1594.6	1580.2	1603.3	1607.1
10°	1822.7	1805.4	1768.8	1722.6	1658.1	1611.9	1576.3	1519.5	1504.1	1515.7	1521.5
12.5°	1878.5	1855.4	1813.1	1733.2	1660.0	1597.5	1528.2	1457.0	1420.4	1433.9	1441.6
15°	1961.3	1926.6	1882.4	1784.2	1683.1	1592.7	1498.4	1385.8	1319.4	1311.7	1313.6
17.5°	2059.4	2022.9	1964.2	1844.8	1715.9	1592.7	1453.1	1311.7	1202.0	1170.2	1174.1
20°	2158.5	2118.1	2071.0	1915.1	1746.7	1568.6	1397.3	1212.6	1055.7	983.5	983.5
22.5°	2272.1	2243.2	2164.3	1970.9	1757.2	1531.1	1311.7	1078.8	886.3	780.5	776.6
25°	2419.3	2393.4	2248.0	2015.2	1748.6	1483.9	1201.0	921.0	682.3	574.5	568.7
27.5°	2583.9	2532.9	2329.8	2047.9	1718.8	1407.9	1053.8	720.8	475.4	373.4	368.6
30°	2766.7	2692.6	2392.4	2042.1	1663.9	1279.9	880.5	484.1	277.2	209.8	209.8
32.5°	3029.5	2894.7	2466.5	2028.6	1587.9	1126.9	646.7	286.8	138.6	106.8	106.8
35°	3542.4	3289.3	2579.1	1992.1	1464.7	924.8	407.1	129.0	76.0	75.1	75.1
37.5°	4230.5	3798.4	2760.0	1938.2	1295.3	672.7	203.1	71.2	71.2	73.1	72.2
40°	4833.9	4346.9	3001.6	1856.4	1109.6	424.4	92.4	68.3	72.2	75.1	75.1
42.5°	5282.3	4770.4	3235.4	1737.0	886.3	216.5	77.0	66.4	69.3	70.3	71.2
45°	5662.5	5126.4	3422.1	1585.9	648.6	103.0	77.0	65.4	65.4	65.4	66.4
47.5°	5954.0	5387.2	3550.1	1407.9	403.2	86.6	80.8	64.5	60.6	58.7	59.7
50°	6182.1	5569.1	3595.3	1209.7	199.2	87.6	78.9	60.6	52.9	53.9	54.9
52.5°	6342.8	5716.3	3547.2	962.3	103.0	92.4	79.9	58.7	47.2	50.0	50.0
55°	6492.0	5752.9	3425.0	684.2	92.4	93.3	79.9	53.9	40.4	46.2	49.1
57.5°	6529.5	5752.0	3233.5	430.2	99.1	88.5	76.0	52.9	38.5	46.2	48.1
60°	6585.3	5704.8	2970.8	262.7	103.9	81.8	71.2	50.0	36.6	38.5	40.4
62.5°	6524.7	5624.0	2577.2	174.2	100.1	76.0	69.3	48.1	31.8	28.9	27.9
65°	6406.3	5353.5	1944.9	140.5	93.3	74.1	62.6	42.3	26.0	18.3	17.3
67.5°	6130.2	4839.6	1028.7	132.8	87.6	73.1	55.8	39.5	21.2	10.6	9.6
69°	5804.9	4319.0	466.7	134.7	102.0	73.1	56.8	34.6	19.2	7.7	6.7
70°	5465.2	3843.6	212.7	130.9	110.7	77.0	55.8	31.8	17.3	6.7	5.8
72.5°	4215.1	2389.5	145.3	116.4	123.2	75.1	55.8	29.8	16.4	3.8	2.9
75°	2502.1	592.8	130.9	92.4	117.4	91.4	67.4	32.7	14.4	1.9	0.0
77.5°	648.6	165.5	110.7	70.3	103.9	103.0	78.0	32.7	14.4	0.0	0.0
80°	167.4	127.0	95.3	45.2	81.8	100.1	63.5	36.6	11.5	0.0	0.0
82.5°	100.1	92.4	103.9	27.9	65.4	67.4	37.5	26.0	12.5	0.0	0.0
85°	57.7	79.9	73.1	21.2	12.5	6.7	15.4	28.9	12.5	0.0	0.0
87.5°	33.7	43.3	16.4	2.9	2.9	1.9	1.0	3.8	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)