

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: P286976

Luminaire Tested: **USSL-C029-D-U-T4-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-8)
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-T4-BZ
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17087 lumens
Efficiency: N/A
Efficacy: 130.4 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 - 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

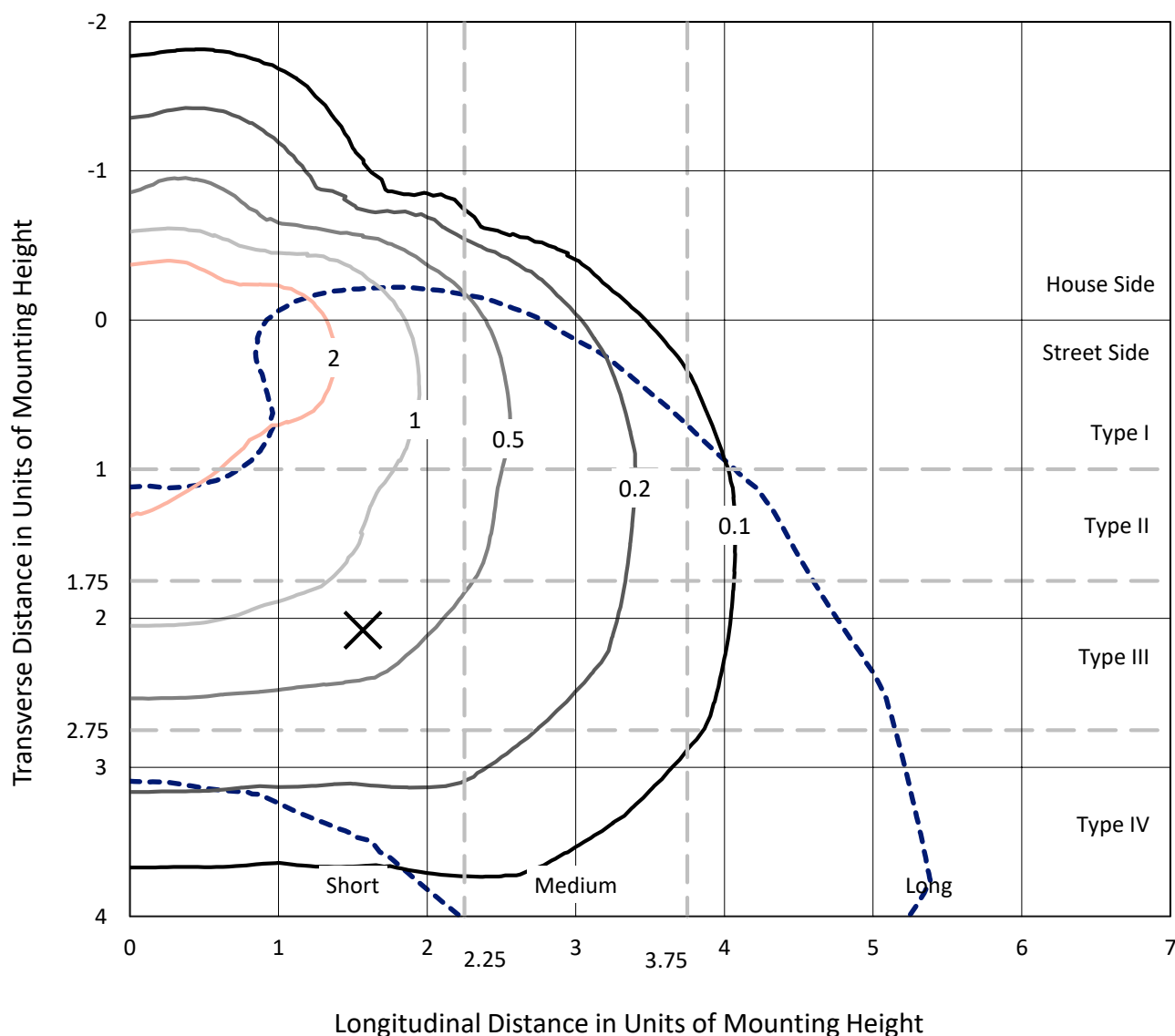


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

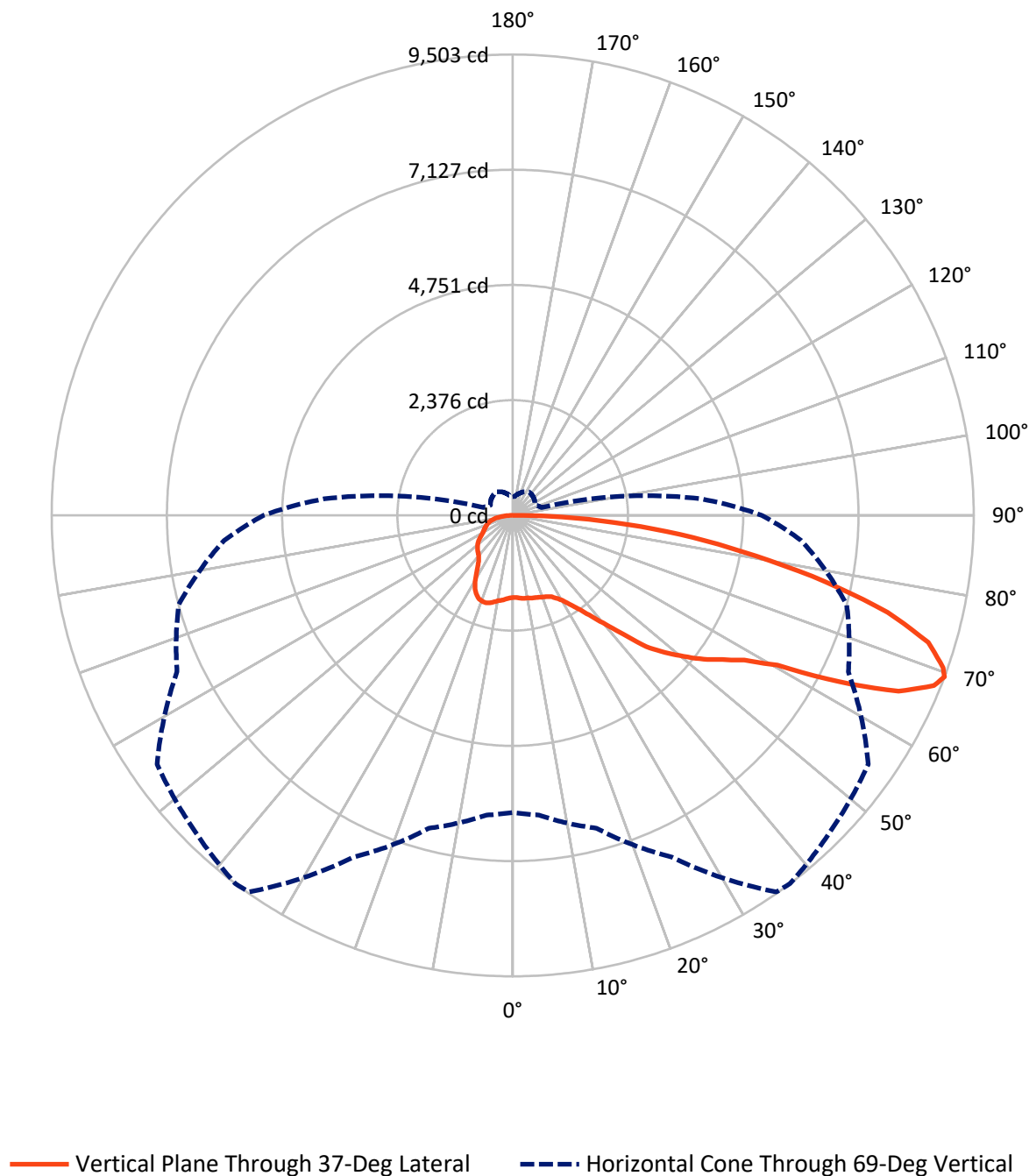


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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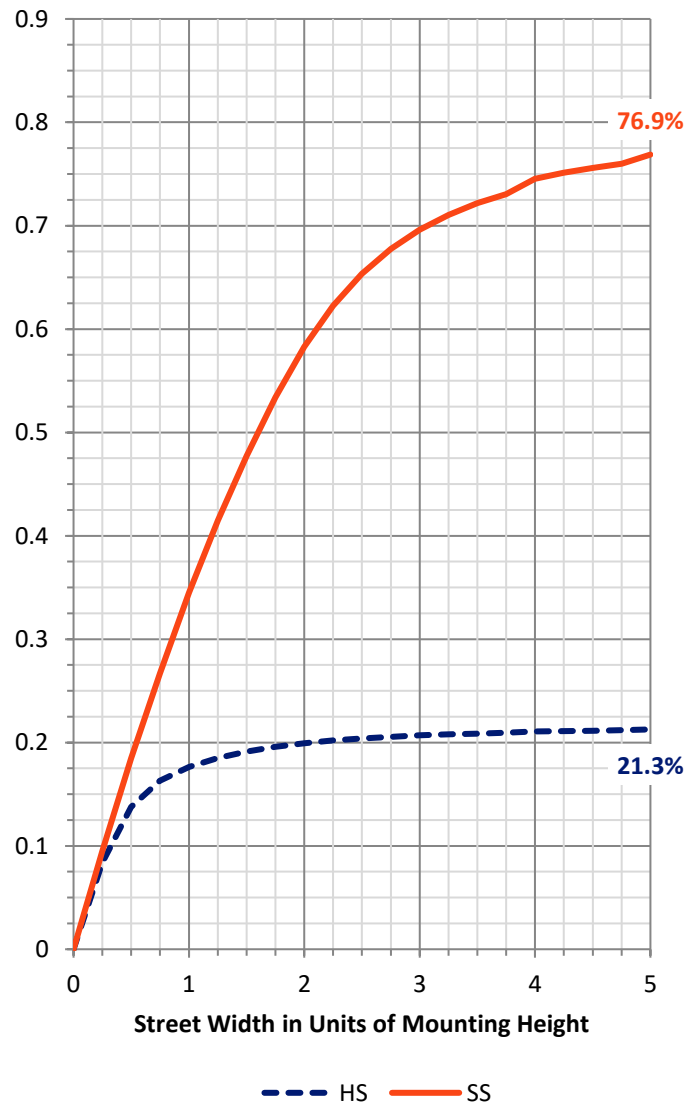
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3684.5	0.0	3684.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	13402.5	0.0	13402.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	17087.0	0.0	17087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	1.0
10°-20°	516.3	3.0
20°-30°	882.1	5.2
30°-40°	1398.4	8.2
40°-50°	2376.3	13.9
50°-60°	3369.1	19.7
60°-70°	4287.3	25.1
70°-80°	3290.3	19.3
80°-90°	802.0	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°	17087.0	100.0
0°-180°	17087.0	100.0

Coefficient of Utilization



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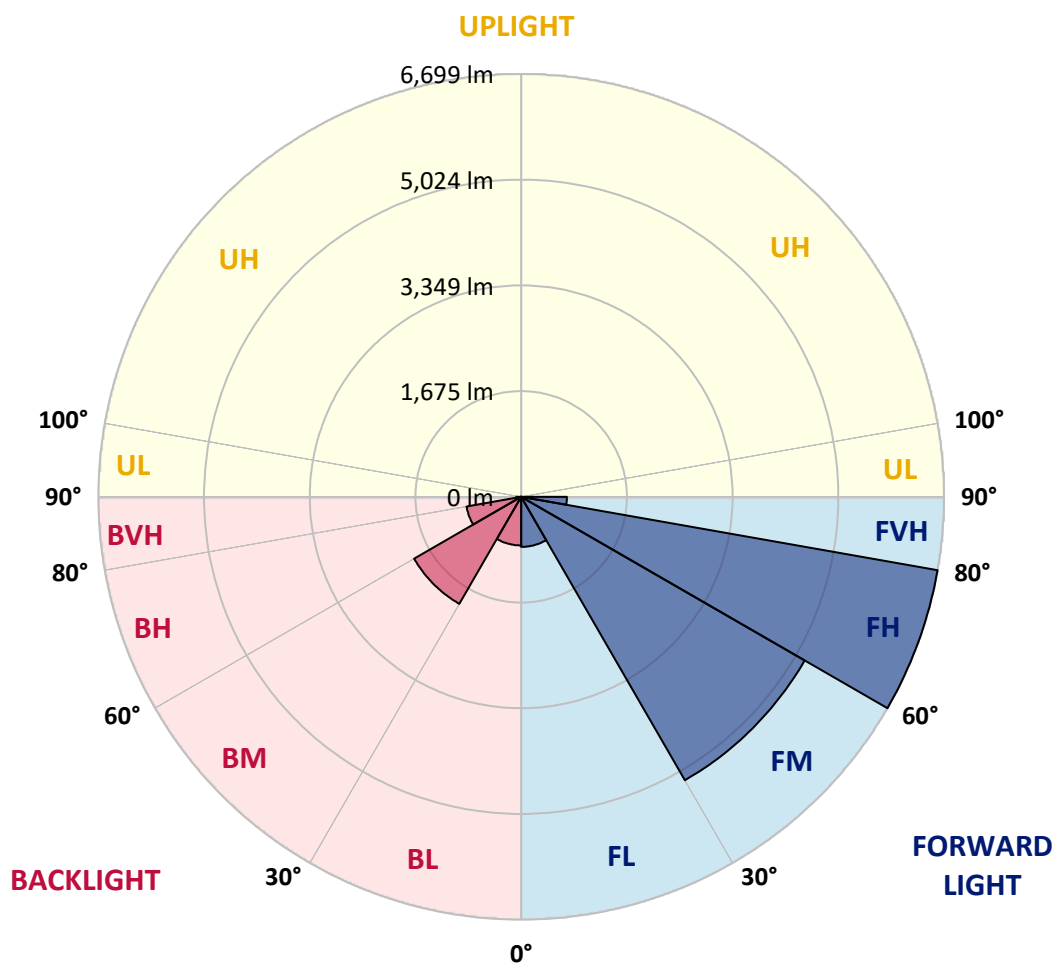
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	793.2	4.6			
FM	(30°-60°)	5185.6	30.3			
FH	(60°-80°)	6698.8	39.2			G3/7500
FVH	(80°-90°)	724.9	4.2			G4/750
BL	(0°-30°)	770.5	4.5	B2/1000		
BM	(30°-60°)	1958.2	11.5	B2/2500		
BH	(60°-80°)	878.8	5.1	B2/1000		G2/1000
BVH	(80°-90°)	77.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1692.1	1692.1	1692.1	1692.1	1692.1	1692.1	1692.1	1692.1	1692.1	1692.1	1692.1
2.5°	1724.7	1715.5	1715.5	1696.2	1696.2	1694.6	1698.8	1688.7	1687.0	1685.4	1679.5
5°	1746.5	1743.2	1731.4	1717.2	1723.9	1714.7	1714.7	1701.3	1702.1	1700.4	1691.2
7.5°	1741.5	1747.4	1746.5	1729.8	1724.7	1727.3	1728.1	1728.9	1720.6	1719.7	1713.0
10°	1757.4	1751.6	1754.1	1728.1	1734.8	1728.9	1738.1	1737.3	1737.3	1737.3	1729.8
12.5°	1723.9	1730.6	1733.1	1737.3	1749.9	1749.9	1765.0	1770.8	1783.4	1791.8	1781.7
15°	1714.7	1708.8	1733.1	1730.6	1759.9	1757.4	1781.7	1814.4	1825.3	1847.9	1853.8
17.5°	1709.7	1721.4	1739.8	1739.0	1767.5	1773.3	1806.9	1843.7	1874.8	1912.5	1925.9
20°	1723.9	1723.9	1743.2	1751.6	1795.1	1795.1	1830.3	1876.4	1925.0	1980.4	2008.8
22.5°	1769.2	1770.8	1788.4	1779.2	1806.9	1816.9	1847.1	1899.1	1974.5	2034.8	2093.5
25°	1795.1	1805.2	1826.1	1823.6	1850.5	1858.0	1894.0	1961.1	2042.4	2122.0	2220.0
27.5°	1855.5	1856.3	1873.1	1868.0	1931.7	1935.1	1967.8	2018.9	2137.1	2228.4	2365.9
30°	1942.6	1947.7	1958.6	1973.6	2039.9	2036.5	2058.3	2126.2	2240.2	2363.3	2550.2
32.5°	2132.0	2121.1	2107.7	2110.3	2175.6	2194.1	2236.0	2316.4	2457.2	2606.4	2808.4
35°	2454.7	2448.0	2399.4	2342.4	2365.0	2386.8	2455.5	2609.7	2826.8	3177.1	3357.3
37.5°	2876.2	2896.4	2805.0	2683.5	2634.0	2639.1	2702.8	2911.4	3265.9	3928.0	4042.0
40°	3410.1	3379.9	3267.6	3105.0	2980.2	2954.2	2974.3	3241.6	3757.1	4590.1	4611.9
42.5°	3799.8	3804.0	3676.6	3558.4	3395.0	3346.4	3312.9	3566.0	4264.9	5100.5	5023.4
45°	4251.5	4284.2	4145.1	4023.6	3908.7	3858.5	3808.2	3963.2	4790.4	5506.1	5373.7
47.5°	4634.5	4640.4	4461.0	4370.5	4243.1	4220.5	4171.9	4321.1	5217.8	5824.6	5643.5
50°	4989.8	5051.0	4818.0	4689.0	4582.5	4568.3	4585.9	4726.7	5634.3	6100.3	5861.4
52.5°	5600.0	5506.1	5233.7	4990.7	4924.5	4925.3	4922.0	5151.6	6065.1	6332.4	6040.8
55°	6162.3	5979.6	5678.7	5405.5	5243.8	5245.5	5274.0	5554.7	6422.1	6556.2	6163.1
57.5°	6514.3	6614.9	6339.1	5929.3	5623.4	5628.5	5627.6	5931.8	6728.8	6753.1	6257.8
60°	7028.0	7147.9	7075.8	6768.2	6357.6	6267.1	6038.3	6357.6	7043.9	6941.7	6358.4
62.5°	7403.5	7492.3	7692.6	7520.8	7544.3	7553.5	6834.4	6842.8	7269.4	7097.6	6380.2
65°	7404.3	7402.6	7867.8	8082.3	8641.3	8738.5	8436.0	7513.3	7483.1	7122.7	6296.4
67.5°	6697.0	6740.6	7230.0	8027.0	9291.6	9364.6	9171.0	8573.4	7593.7	7151.2	6160.6
69°	6125.4	6202.5	6676.0	7772.2	9476.0	9502.8	9241.4	8947.2	7633.9	7126.9	5971.2
70°	5747.5	5750.8	6233.5	7458.0	9383.0	9413.2	9236.3	9010.9	7599.6	7058.2	5822.0
72.5°	4535.6	4583.4	5010.8	6335.8	8926.2	8955.6	8894.4	8843.3	7550.1	6754.0	5007.4
75°	3316.2	3348.1	3738.6	4963.0	7805.8	7982.6	8250.8	8537.4	7035.6	5807.8	3769.6
77.5°	2325.6	2367.5	2769.8	3767.1	6357.6	6600.6	7204.9	7473.0	5961.2	4549.0	2101.9
80°	1552.9	1604.9	1970.3	2805.8	4839.8	5087.9	5786.8	5902.5	4559.9	2728.7	416.5
82.5°	988.1	1001.5	1292.3	1982.9	3599.5	3742.0	3995.1	3752.9	2417.0	621.8	123.2
85°	576.6	600.9	781.9	1244.5	2219.2	2381.8	2492.4	1862.2	584.1	83.8	66.2
87.5°	217.1	227.1	316.8	538.0	1038.4	1022.4	992.3	628.5	104.8	38.6	30.2
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°	1692.1	1692.1	1692.1	1692.1	1692.1	1692.1	1692.1	1692.1	1692.1	1692.1	1692.1
2.5°	1678.6	1693.7	1686.2	1682.8	1681.2	1689.5	1705.5	1701.3	1698.8	1726.4	1728.9
5°	1691.2	1712.2	1711.3	1714.7	1709.7	1719.7	1727.3	1729.8	1732.3	1761.6	1765.8
7.5°	1714.7	1723.9	1727.3	1740.7	1733.1	1749.0	1762.5	1749.0	1761.6	1782.6	1786.8
10°	1735.6	1749.9	1750.7	1771.7	1764.1	1779.2	1782.6	1782.6	1792.6	1816.9	1812.7
12.5°	1785.9	1786.8	1816.1	1817.8	1827.8	1827.0	1820.3	1801.0	1791.8	1824.5	1827.0
15°	1858.8	1868.0	1905.8	1903.2	1890.7	1884.0	1855.5	1807.7	1780.1	1775.0	1775.0
17.5°	1946.8	1949.3	1998.0	1987.9	1967.8	1924.2	1877.3	1792.6	1714.7	1689.5	1674.5
20°	2018.9	2039.9	2099.4	2065.0	2029.8	1959.4	1856.3	1739.8	1619.1	1558.0	1542.0
22.5°	2117.0	2158.0	2192.4	2142.1	2068.3	1966.1	1830.3	1662.7	1504.3	1408.8	1392.0
25°	2256.1	2279.5	2277.9	2190.7	2074.2	1945.2	1755.7	1553.8	1360.2	1255.4	1224.4
27.5°	2399.4	2416.1	2345.7	2227.6	2054.1	1885.6	1658.5	1411.3	1214.4	1120.5	1097.0
30°	2562.0	2545.2	2398.5	2211.7	2001.3	1780.9	1521.9	1254.6	1087.8	1004.8	992.3
32.5°	2812.6	2726.2	2445.5	2174.8	1905.8	1636.7	1355.2	1142.3	1005.7	908.5	891.7
35°	3247.5	3064.8	2529.3	2142.1	1790.1	1475.0	1211.8	1064.3	932.8	818.0	796.2
37.5°	3809.8	3519.0	2686.8	2085.9	1653.5	1317.4	1120.5	999.0	877.5	750.1	725.8
40°	4361.3	3994.2	2898.9	2029.8	1524.4	1210.2	1068.5	973.0	855.7	724.9	698.9
42.5°	4763.6	4374.7	3130.2	1976.2	1399.6	1126.4	1042.6	965.5	856.5	729.1	704.8
45°	5066.9	4676.4	3364.8	1902.4	1253.7	1061.8	1018.3	957.9	855.7	733.3	703.1
47.5°	5334.3	4874.2	3526.6	1805.2	1115.5	1011.5	988.9	929.4	834.7	715.7	689.7
50°	5522.9	5061.9	3632.2	1720.6	1009.0	967.1	947.9	883.3	785.3	681.3	651.2
52.5°	5656.1	5183.4	3644.8	1699.6	928.6	928.6	898.4	831.4	736.7	631.9	602.6
55°	5796.1	5253.0	3590.3	1621.7	843.9	864.9	845.6	796.2	704.8	597.5	579.1
57.5°	5790.2	5217.8	3481.3	1303.2	749.2	771.0	778.6	765.2	693.1	605.9	588.3
60°	5828.8	5181.8	3300.3	905.9	659.6	693.1	724.9	724.9	656.2	553.1	534.7
62.5°	5808.6	5098.8	2914.0	638.6	588.3	642.0	682.2	651.2	584.1	497.0	485.2
65°	5677.9	4862.5	2185.7	542.2	563.2	612.6	649.5	601.7	533.0	449.2	440.8
67.5°	5439.1	4427.5	1162.4	507.0	552.3	592.5	612.6	560.7	492.8	408.1	398.9
69°	5134.8	3901.2	623.5	502.0	550.6	575.8	590.0	536.4	462.6	388.0	388.0
70°	4819.7	3484.7	403.1	504.5	543.9	565.7	574.1	519.6	445.0	367.1	363.7
72.5°	3776.3	2241.0	336.9	479.4	523.8	533.8	533.0	475.2	390.5	279.1	284.1
75°	2292.1	683.9	321.8	438.3	490.3	511.2	497.8	398.9	304.2	233.8	233.8
77.5°	623.5	239.7	305.1	399.8	447.5	453.4	449.2	371.3	271.5	193.6	195.3
80°	186.1	186.1	284.1	333.6	379.6	406.5	385.5	326.0	217.9	102.2	105.6
82.5°	107.3	120.7	238.0	234.7	306.7	305.9	305.9	233.0	147.5	67.0	54.5
85°	57.0	85.5	129.1	134.9	144.1	162.6	220.4	201.1	111.5	30.2	6.7
87.5°	32.7	48.6	35.2	25.1	52.8	96.4	142.5	136.6	93.0	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)