

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: P286980

Luminaire Tested: **USSL-C029-D-U-T4-AP-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286980
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-AP-7050
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K LEDS AND TYPE IV OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18440.1 lumens
Efficiency: N/A
Efficacy: 140.8 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): 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

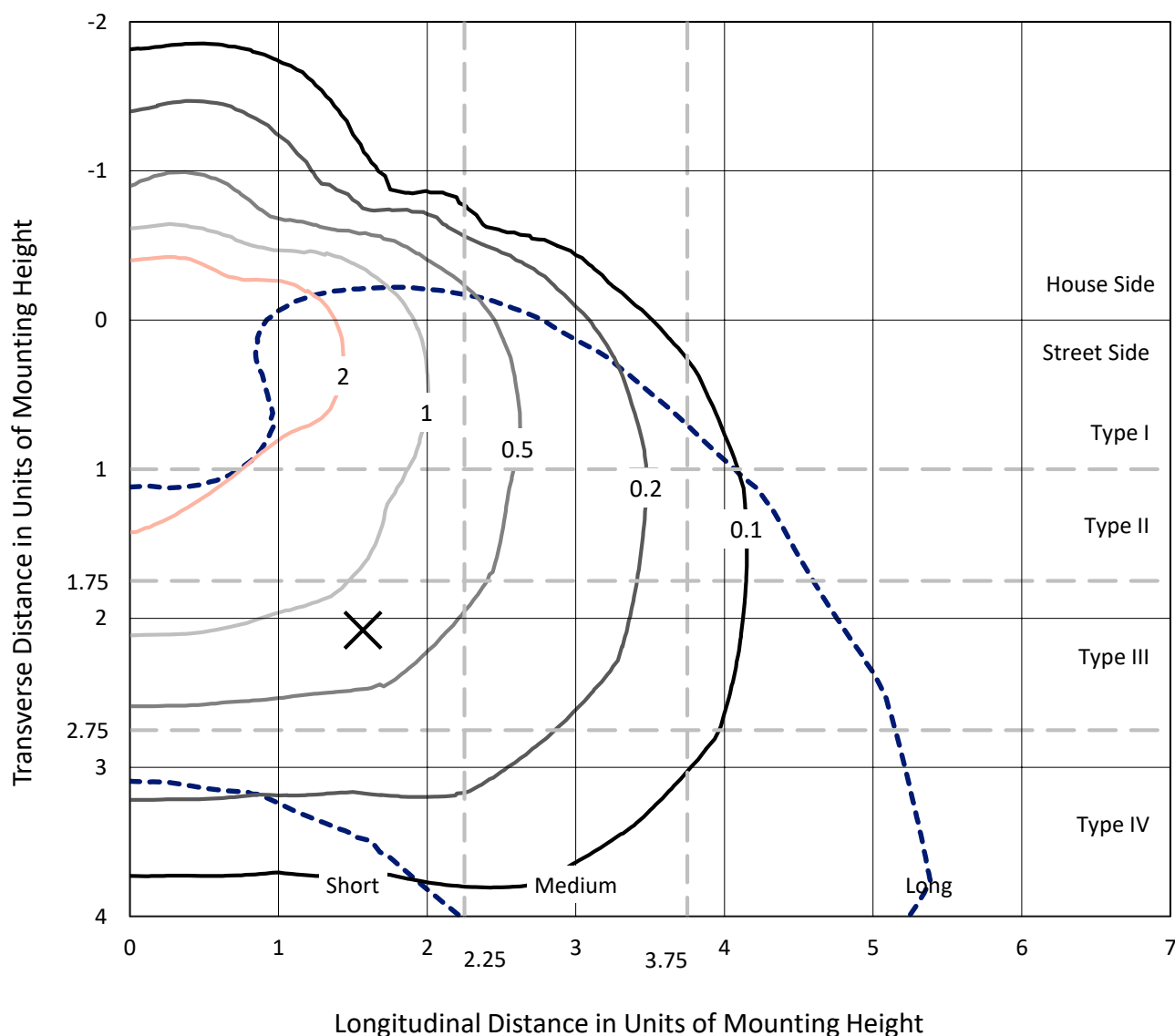


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

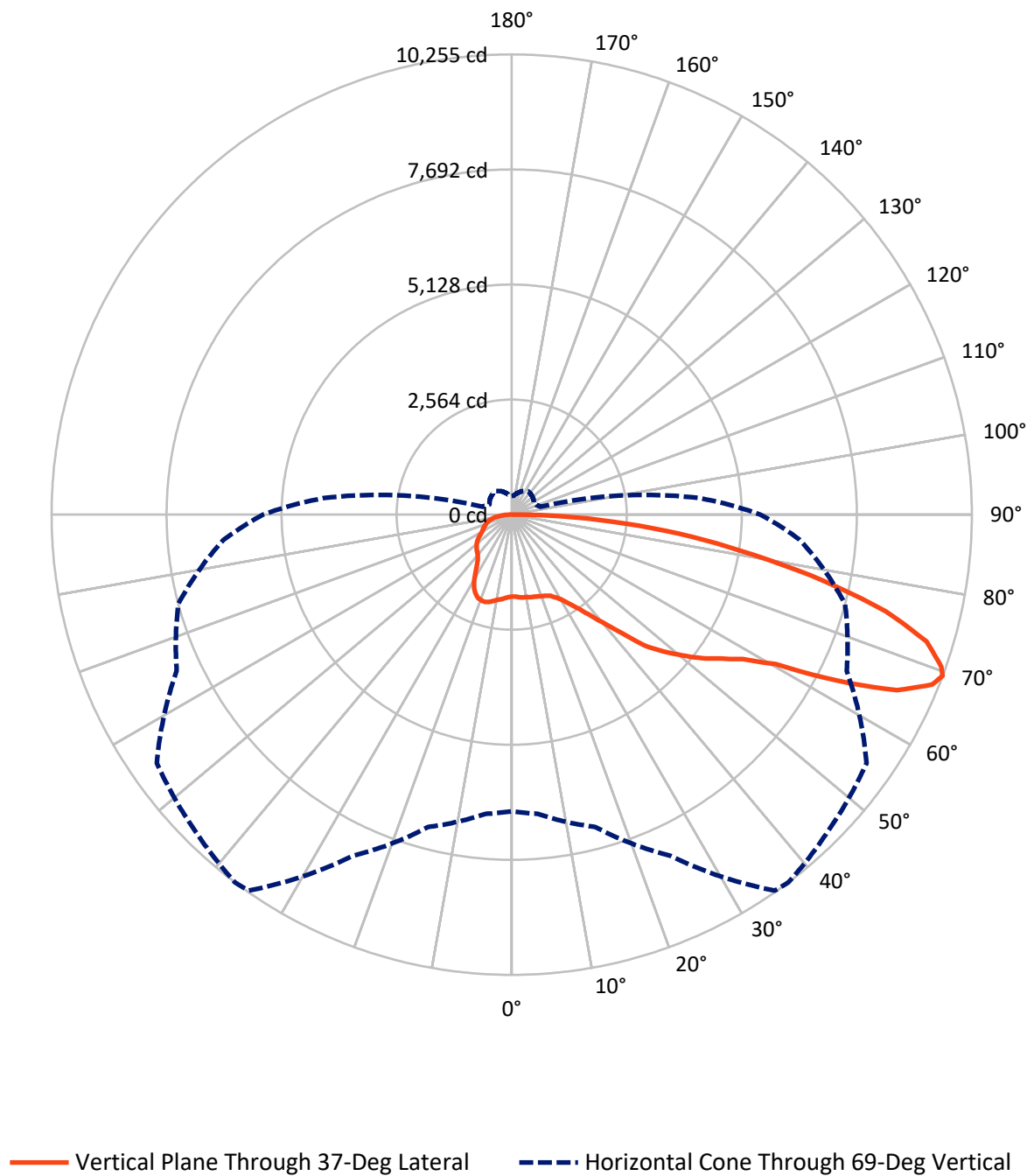


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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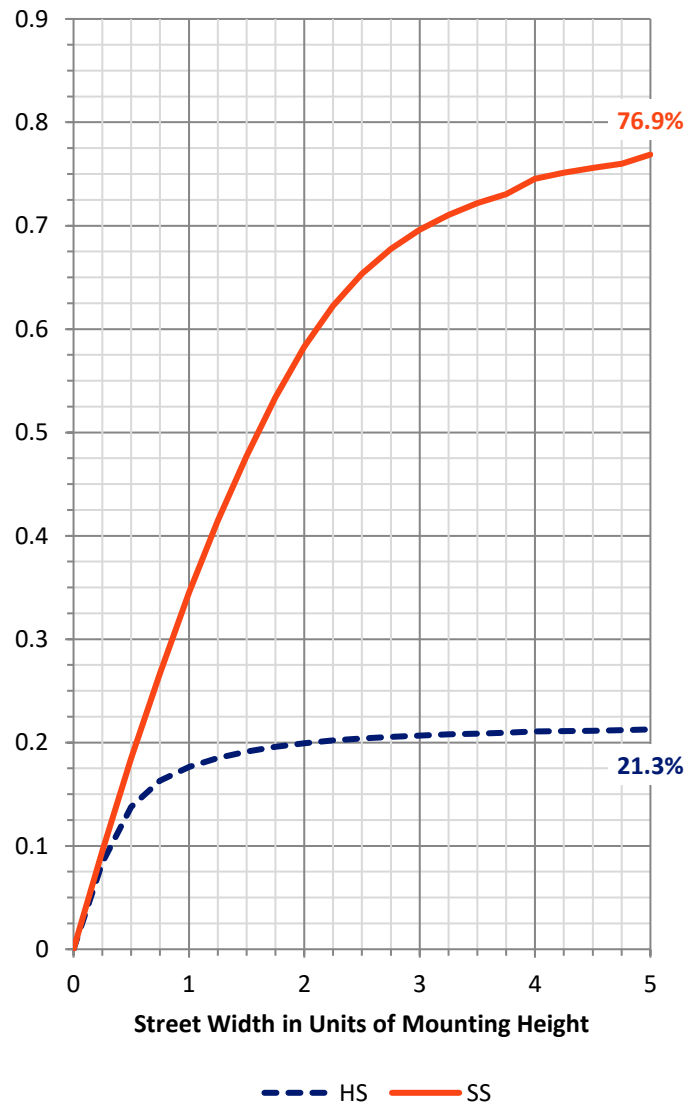
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3976.3	0.0	3976.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	14463.9	0.0	14463.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	18440.1	0.0	18440.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.3	1.0
10°-20°	557.2	3.0
20°-30°	952.0	5.2
30°-40°	1509.2	8.2
40°-50°	2564.5	13.9
50°-60°	3635.9	19.7
60°-70°	4626.9	25.1
70°-80°	3550.8	19.3
80°-90°	865.5	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°	18440.1	100.0
0°-180°	18440.1	100.0

Coefficient of Utilization



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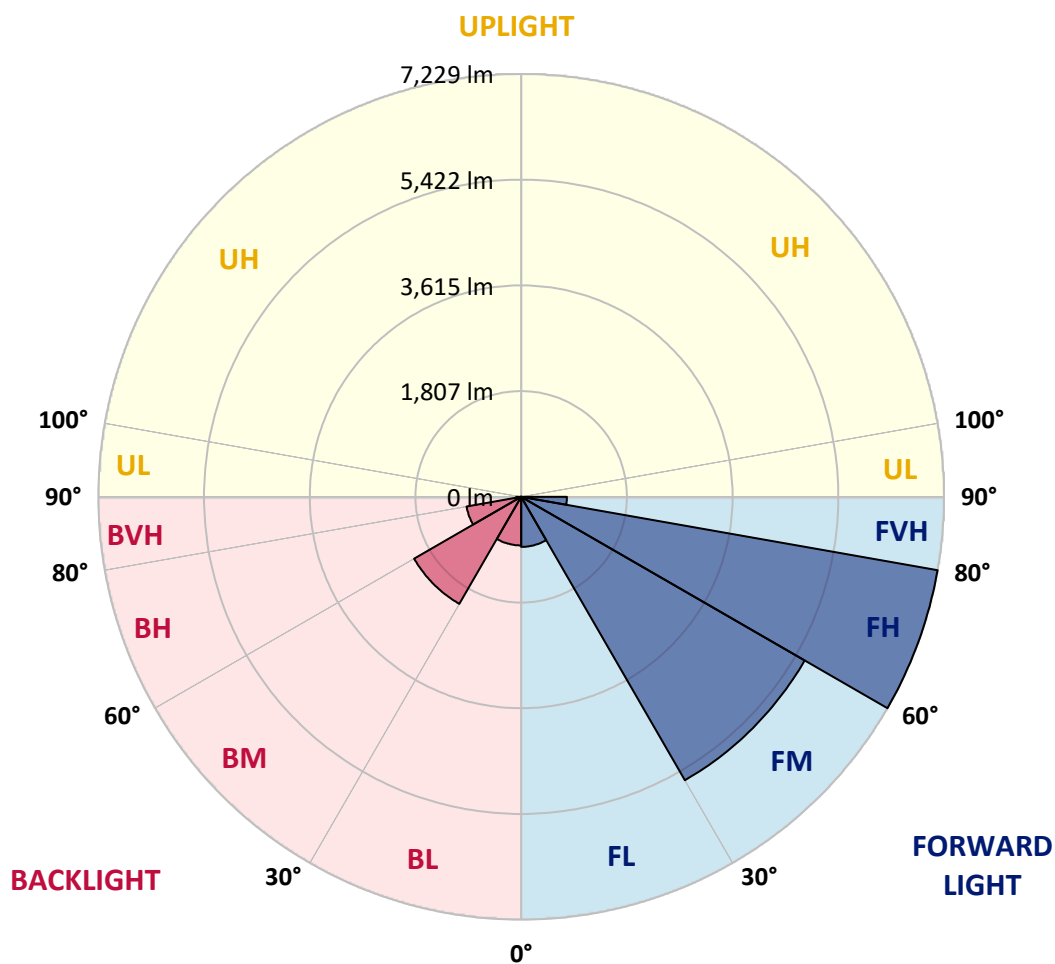
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	856.0	4.6			
FM	(30°-60°)	5596.3	30.3			
FH	(60°-80°)	7229.3	39.2			G3/7500
FVH	(80°-90°)	782.3	4.2			G5
BL	(0°-30°)	831.5	4.5	B2/1000		
BM	(30°-60°)	2113.2	11.5	B2/2500		
BH	(60°-80°)	948.4	5.1	B2/1000		G2/1000
BVH	(80°-90°)	83.2	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1
2.5°	1861.3	1851.3	1851.3	1830.6	1830.6	1828.8	1833.3	1822.4	1820.6	1818.8	1812.5
5°	1884.8	1881.2	1868.6	1853.2	1860.4	1850.5	1850.5	1836.0	1836.9	1835.1	1825.1
7.5°	1879.4	1885.8	1884.8	1866.8	1861.3	1864.0	1864.9	1865.8	1856.8	1855.9	1848.7
10°	1896.6	1890.2	1893.0	1864.9	1872.2	1865.8	1875.8	1874.9	1874.9	1874.9	1866.8
12.5°	1860.4	1867.6	1870.4	1874.9	1888.4	1888.4	1904.7	1911.1	1924.7	1933.7	1922.9
15°	1850.5	1844.1	1870.4	1867.6	1899.3	1896.6	1922.9	1958.1	1969.8	1994.3	2000.6
17.5°	1845.1	1857.7	1877.6	1876.7	1907.5	1913.8	1950.0	1989.8	2023.2	2063.9	2078.4
20°	1860.4	1860.4	1881.2	1890.2	1937.3	1937.3	1975.3	2025.0	2077.5	2137.2	2167.9
22.5°	1909.3	1911.1	1930.1	1920.1	1950.0	1960.8	1993.4	2049.4	2130.8	2196.0	2259.3
25°	1937.3	1948.2	1970.8	1968.0	1997.0	2005.1	2044.0	2116.4	2204.1	2290.0	2395.8
27.5°	2002.5	2003.3	2021.4	2016.0	2084.7	2088.3	2123.6	2178.7	2306.3	2404.9	2553.2
30°	2096.5	2101.9	2113.7	2130.0	2201.4	2197.8	2221.3	2294.6	2417.5	2550.5	2752.2
32.5°	2300.8	2289.2	2274.7	2277.4	2347.9	2367.8	2413.1	2499.9	2651.8	2812.8	3030.8
35°	2649.1	2641.8	2589.4	2527.9	2552.3	2575.9	2650.0	2816.4	3050.6	3428.7	3623.2
37.5°	3104.0	3125.8	3027.2	2896.0	2842.7	2848.1	2916.8	3142.0	3524.6	4239.1	4362.1
40°	3680.2	3647.5	3526.4	3351.0	3216.2	3188.2	3209.8	3498.3	4054.5	4953.5	4977.1
42.5°	4100.8	4105.2	3967.7	3840.2	3663.9	3611.4	3575.3	3848.4	4602.6	5504.4	5421.2
45°	4588.2	4623.5	4473.3	4342.2	4218.3	4164.0	4109.8	4277.1	5169.8	5942.1	5799.2
47.5°	5001.6	5007.8	4814.3	4716.7	4579.2	4554.7	4502.2	4663.2	5631.0	6285.8	6090.5
50°	5385.0	5451.1	5199.6	5060.3	4945.5	4930.0	4949.1	5101.0	6080.5	6583.4	6325.6
52.5°	6043.4	5942.1	5648.2	5385.9	5314.4	5315.4	5311.7	5559.6	6545.4	6833.9	6519.1
55°	6650.3	6453.1	6128.4	5833.6	5659.0	5660.8	5691.6	5994.6	6930.7	7075.4	6651.2
57.5°	7030.2	7138.7	6841.1	6398.8	6068.8	6074.2	6073.2	6401.6	7261.7	7288.0	6753.4
60°	7584.5	7714.0	7636.2	7304.2	6861.1	6763.3	6516.5	6861.1	7601.8	7491.4	6861.9
62.5°	7989.7	8085.7	8301.8	8116.4	8141.7	8151.7	7375.6	7384.7	7845.1	7659.7	6885.4
65°	7990.7	7988.9	8490.9	8722.3	9325.6	9430.6	9104.0	8108.2	8075.7	7686.8	6795.0
67.5°	7227.4	7274.4	7802.6	8662.7	10027.5	10106.1	9897.2	9252.4	8195.0	7717.6	6648.5
69°	6610.5	6693.7	7204.7	8387.7	10226.4	10255.4	9973.2	9655.7	8238.5	7691.3	6444.1
70°	6202.6	6206.2	6727.2	8048.6	10126.1	10158.6	9967.7	9724.5	8201.4	7617.2	6283.1
72.5°	4894.8	4946.3	5407.6	6837.5	9633.1	9664.8	9598.8	9543.6	8148.1	7288.8	5404.0
75°	3578.9	3613.2	4034.7	5356.1	8423.9	8614.8	8904.1	9213.5	7592.7	6267.7	4068.1
77.5°	2509.8	2555.0	2989.1	4065.5	6861.1	7123.3	7775.4	8064.9	6433.3	4909.2	2268.3
80°	1675.9	1732.0	2126.4	3028.0	5223.1	5490.8	6245.1	6369.9	4921.0	2944.8	449.5
82.5°	1066.4	1080.8	1394.6	2139.9	3884.5	4038.3	4311.5	4050.1	2608.4	671.1	132.9
85°	622.3	648.4	843.8	1343.1	2395.0	2570.4	2689.8	2009.7	630.4	90.4	71.4
87.5°	234.2	245.0	341.9	580.6	1120.6	1103.5	1070.8	678.3	113.1	41.7	32.5
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°	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1
2.5°	1811.6	1827.9	1819.7	1816.1	1814.3	1823.3	1840.5	1836.0	1833.3	1863.1	1865.8
5°	1825.1	1847.7	1846.9	1850.5	1845.1	1855.9	1864.0	1866.8	1869.5	1901.1	1905.6
7.5°	1850.5	1860.4	1864.0	1878.5	1870.4	1887.6	1902.0	1887.6	1901.1	1923.7	1928.3
10°	1873.1	1888.4	1889.4	1912.0	1903.8	1920.1	1923.7	1923.7	1934.6	1960.8	1956.3
12.5°	1927.3	1928.3	1959.9	1961.8	1972.6	1971.6	1964.4	1943.6	1933.7	1969.0	1971.6
15°	2006.1	2016.0	2056.6	2054.0	2040.4	2033.2	2002.5	1950.9	1921.1	1915.6	1915.6
17.5°	2101.0	2103.7	2156.2	2145.3	2123.6	2076.6	2025.9	1934.6	1850.5	1823.3	1807.0
20°	2178.7	2201.4	2265.6	2228.5	2190.5	2114.6	2003.3	1877.6	1747.4	1681.3	1664.1
22.5°	2284.6	2328.9	2366.0	2311.7	2232.1	2121.8	1975.3	1794.4	1623.4	1520.3	1502.3
25°	2434.7	2460.0	2458.2	2364.2	2238.5	2099.2	1894.8	1676.9	1467.9	1354.9	1321.4
27.5°	2589.4	2607.5	2531.5	2404.0	2216.8	2035.0	1789.9	1523.1	1310.6	1209.2	1183.9
30°	2764.9	2746.7	2588.5	2386.8	2159.8	1921.9	1642.4	1353.9	1173.9	1084.4	1070.8
32.5°	3035.2	2942.1	2639.2	2347.0	2056.6	1766.3	1462.5	1232.8	1085.3	980.4	962.3
35°	3504.7	3307.5	2729.6	2311.7	1931.9	1591.8	1307.8	1148.6	1006.6	882.7	859.3
37.5°	4111.6	3797.7	2899.6	2251.1	1784.4	1421.7	1209.2	1078.1	946.9	809.4	783.3
40°	4706.7	4310.5	3128.4	2190.5	1645.2	1306.0	1153.2	1050.0	923.4	782.3	754.3
42.5°	5140.8	4721.1	3378.1	2132.6	1510.4	1215.6	1125.1	1041.9	924.3	786.9	760.6
45°	5468.2	5046.7	3631.3	2053.0	1353.1	1146.0	1098.9	1033.7	923.4	791.4	758.8
47.5°	5756.7	5260.2	3805.9	1948.2	1203.8	1091.7	1067.2	1003.0	900.8	772.3	744.4
50°	5960.2	5462.8	3919.8	1856.8	1088.9	1043.7	1022.9	953.3	847.5	735.3	702.7
52.5°	6104.1	5593.9	3933.4	1834.2	1002.1	1002.1	969.6	897.2	795.0	681.9	650.2
55°	6255.1	5669.0	3874.6	1750.1	910.8	933.3	912.6	859.3	760.6	644.8	624.9
57.5°	6248.7	5631.0	3757.0	1406.4	808.6	832.1	840.2	825.8	748.0	654.0	634.9
60°	6290.3	5592.1	3561.7	977.7	711.8	748.0	782.3	782.3	708.1	596.9	577.0
62.5°	6268.7	5502.6	3144.7	689.1	634.9	692.8	736.2	702.7	630.4	536.3	523.7
65°	6127.5	5247.6	2358.8	585.2	607.7	661.2	700.9	649.4	575.2	484.8	475.7
67.5°	5869.7	4778.1	1254.5	547.2	596.0	639.4	661.2	605.1	531.9	440.5	430.5
69°	5541.5	4210.1	672.9	541.7	594.2	621.3	636.7	578.8	499.2	418.8	418.8
70°	5201.4	3760.6	435.0	544.5	587.0	610.5	619.5	560.8	480.2	396.2	392.5
72.5°	4075.4	2418.5	363.5	517.3	565.2	576.2	575.2	512.8	421.4	301.2	306.6
75°	2473.6	738.0	347.3	473.0	529.1	551.7	537.3	430.5	328.4	252.4	252.4
77.5°	672.9	258.6	329.2	431.4	483.0	489.2	484.8	400.6	293.1	208.9	210.7
80°	200.7	200.7	306.6	359.9	409.8	438.7	416.0	351.8	235.2	110.3	113.9
82.5°	115.7	130.3	256.8	253.2	331.0	330.2	330.2	251.4	159.2	72.4	58.8
85°	61.5	92.2	139.3	145.6	155.6	175.4	237.8	217.1	120.3	32.5	7.2
87.5°	35.3	52.5	37.9	27.1	57.0	104.0	153.8	147.4	100.4	1.0	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)