

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-AP-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-AP-7030-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, GRAY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18887.4 lumens
Efficiency: N/A
Efficacy: 123.4 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 - 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

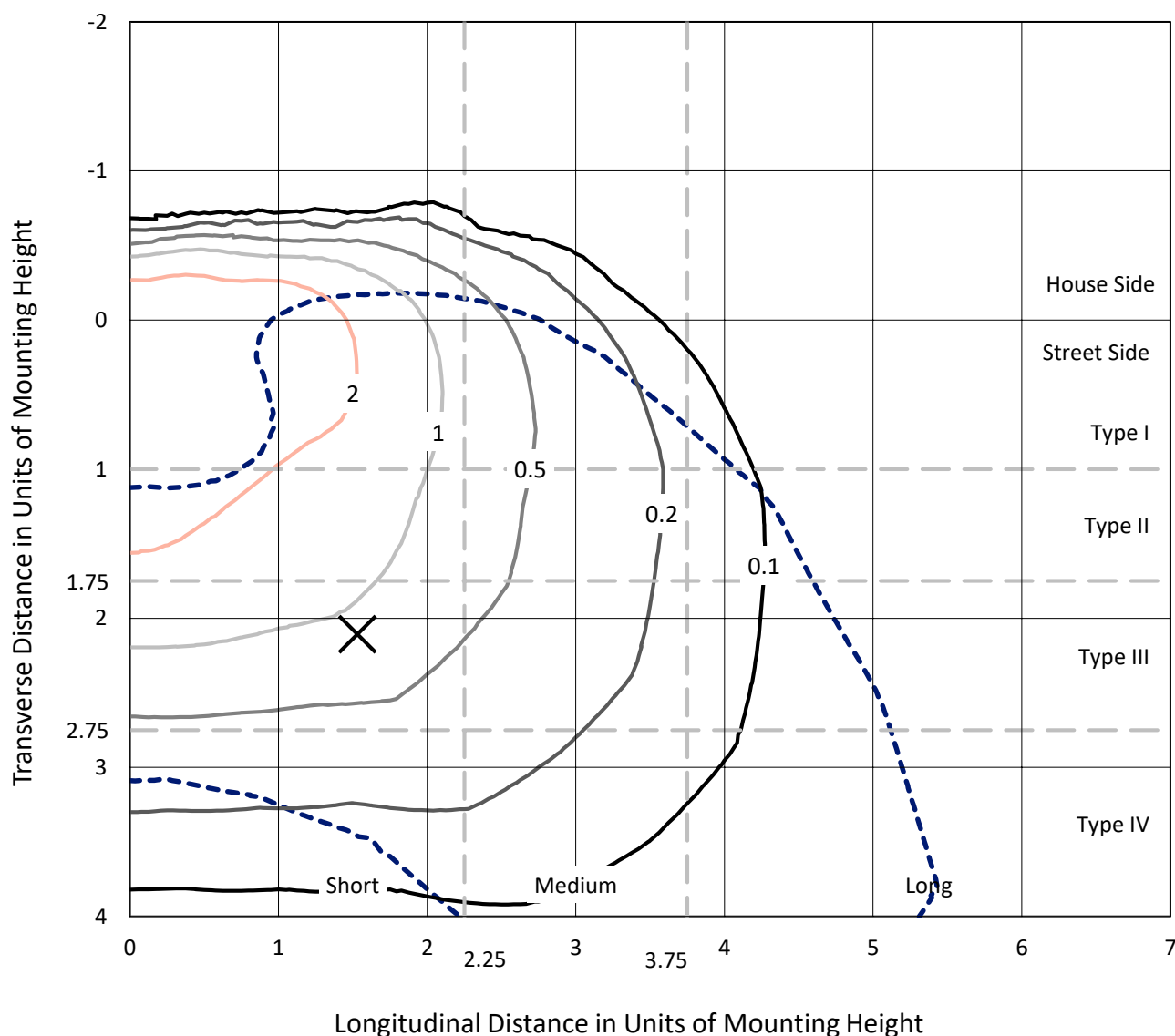


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

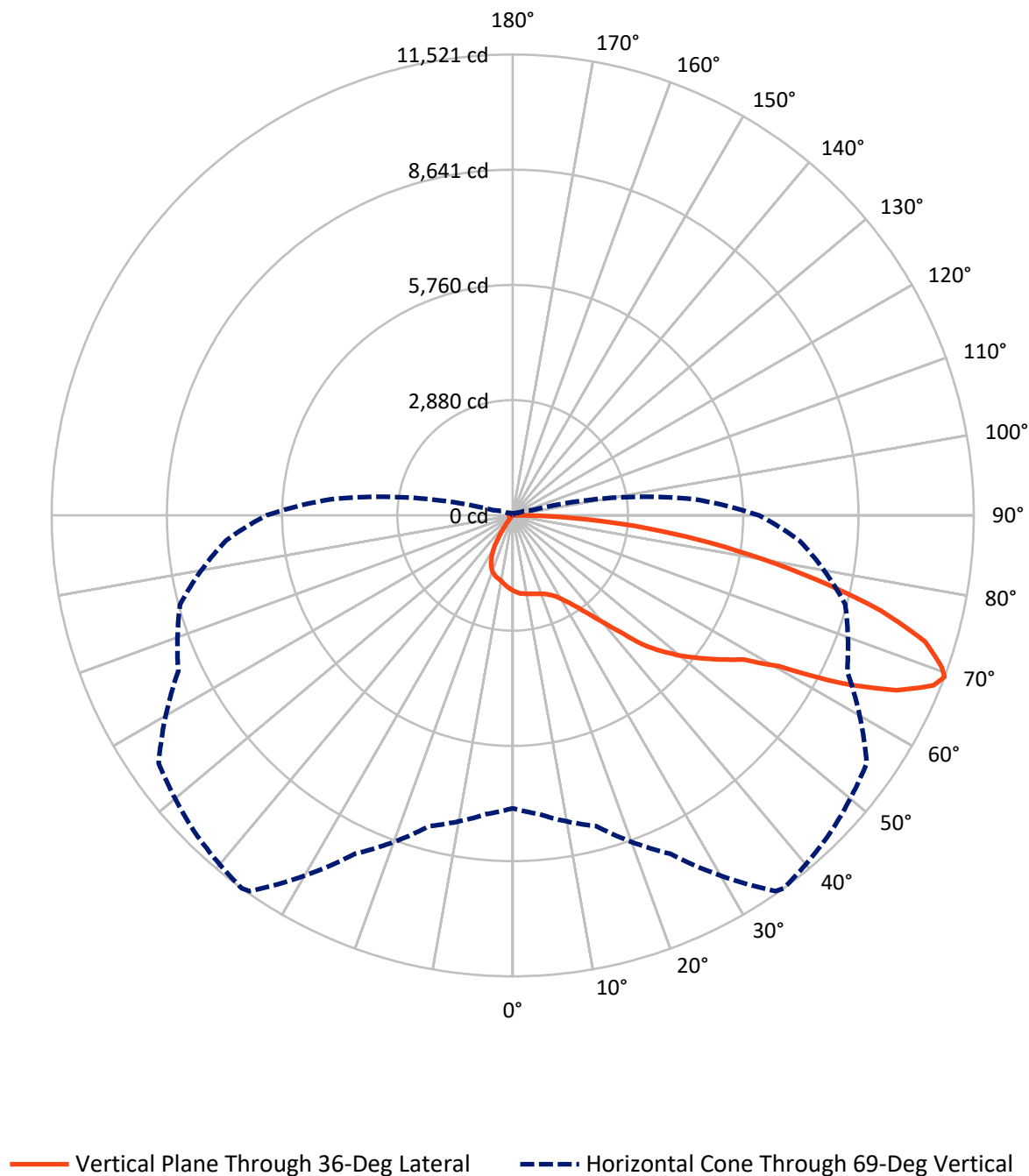


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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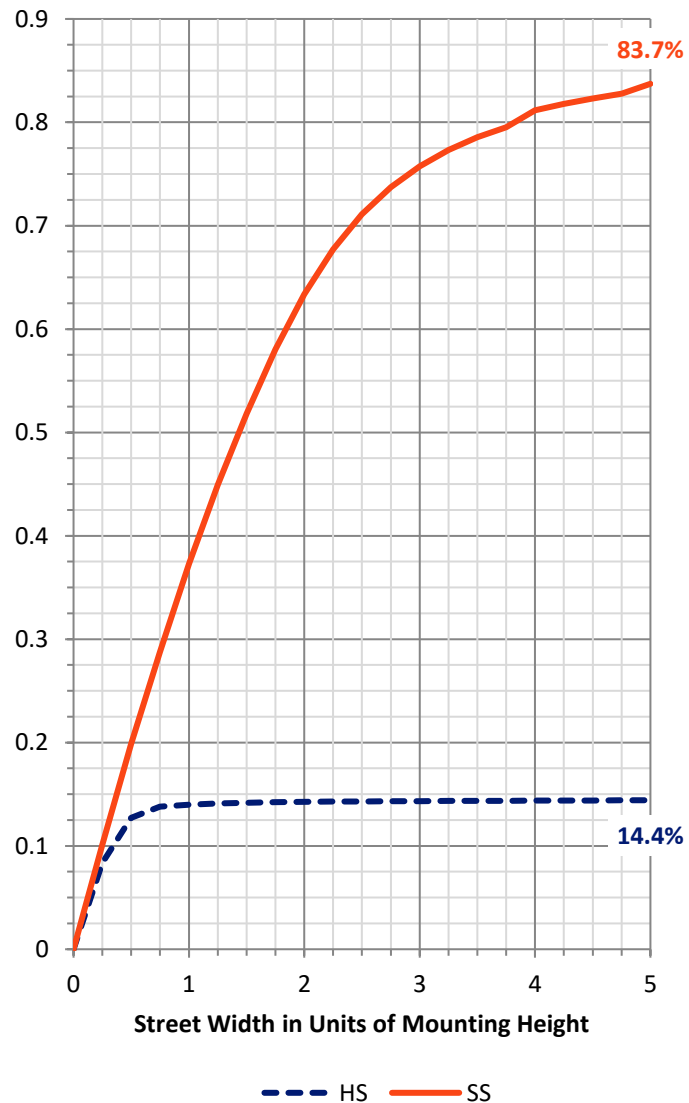
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2754.0	0.0	2754.0
	% Fixture	14.6	0.0	14.6
Street Side	Lumens	16133.4	0.0	16133.4
	% Fixture	85.4	0.0	85.4
Total	Lumens	18887.4	0.0	18887.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.6	0.9
10°-20°	533.3	2.8
20°-30°	893.6	4.7
30°-40°	1445.1	7.7
40°-50°	2548.9	13.5
50°-60°	3715.4	19.7
60°-70°	4907.2	26.0
70°-80°	3773.2	20.0
80°-90°	892.1	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°	18887.4	100.0
0°-180°	18887.4	100.0

Coefficient of Utilization



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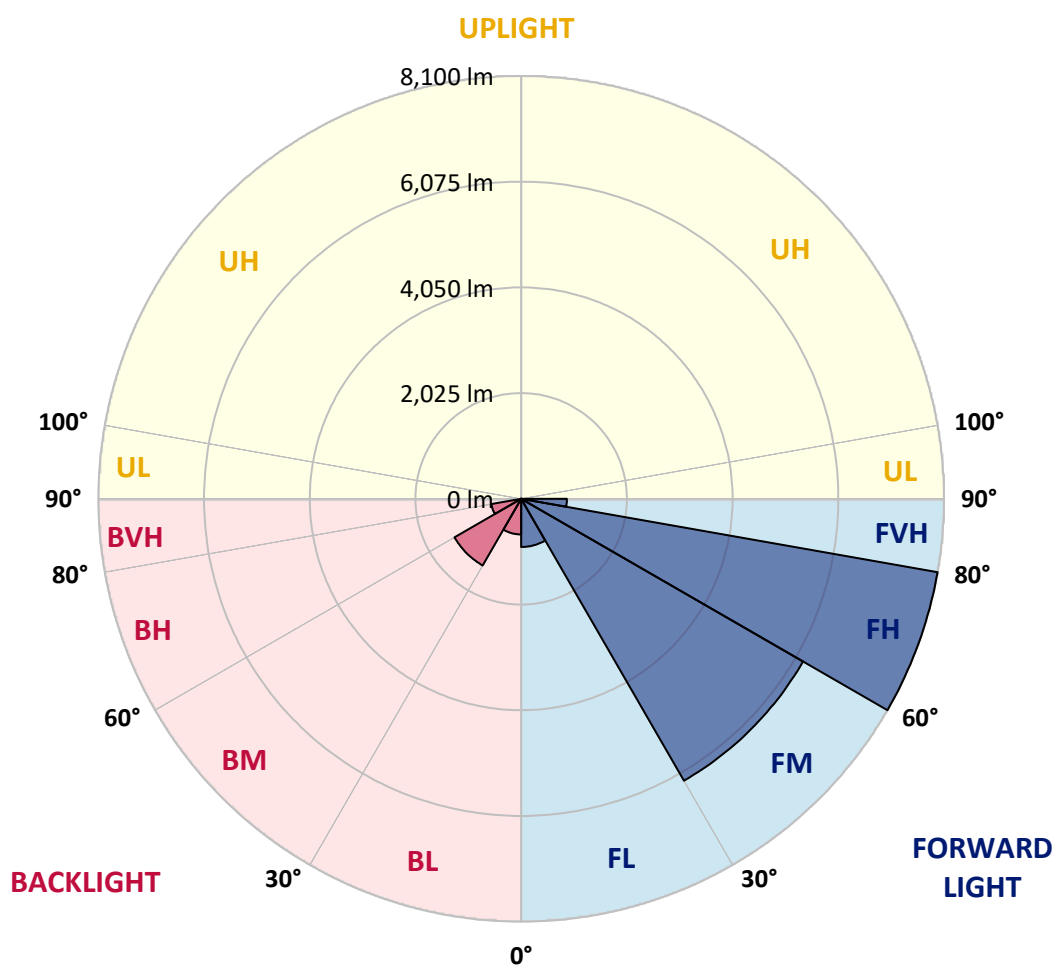
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	923.2	4.9			
FM	(30°-60°)	6234.8	33.0			
FH	(60°-80°)	8099.9	42.9			G4/12000
FVH	(80°-90°)	875.5	4.6			G5
BL	(0°-30°)	682.2	3.6	B2/1000		
BM	(30°-60°)	1474.6	7.8	B2/2500		
BH	(60°-80°)	580.6	3.1	B2/1000		G2/1000
BVH	(80°-90°)	16.6	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°	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9
2.5°	1951.3	1954.3	1945.1	1923.7	1918.6	1920.6	1922.7	1910.5	1897.2	1891.1	1876.8
5°	1985.9	1987.0	1982.9	1963.5	1958.4	1958.4	1956.4	1942.1	1928.8	1920.6	1900.3
7.5°	1995.2	1994.1	1996.1	1975.8	1980.8	1971.6	1977.8	1963.5	1951.3	1940.0	1921.7
10°	2009.4	2011.4	2009.4	1993.0	1995.2	1997.2	1996.1	1985.9	1984.9	1983.9	1952.2
12.5°	2002.3	2001.2	2007.3	1997.2	2011.4	2013.5	2035.9	2041.0	2046.1	2046.1	2013.5
15°	1997.2	1985.9	2011.4	2003.3	2032.9	2035.9	2069.6	2100.2	2106.2	2108.4	2096.1
17.5°	2004.3	2002.3	2038.0	2022.6	2064.5	2057.4	2090.0	2144.1	2172.6	2186.9	2194.0
20°	2034.9	2043.1	2072.6	2057.4	2092.0	2092.0	2127.7	2185.8	2239.9	2275.6	2282.7
22.5°	2081.9	2084.8	2119.6	2104.2	2131.8	2134.9	2165.5	2233.7	2307.2	2367.4	2398.0
25°	2131.8	2129.8	2158.3	2159.3	2196.0	2205.2	2231.7	2286.8	2383.7	2462.3	2545.9
27.5°	2205.2	2201.1	2234.8	2224.6	2293.0	2291.9	2322.6	2387.8	2496.9	2599.9	2727.4
30°	2324.6	2314.4	2334.7	2351.1	2428.5	2431.6	2459.2	2523.4	2633.6	2783.5	2938.6
32.5°	2517.4	2525.5	2523.4	2503.1	2601.0	2607.1	2674.4	2778.4	2890.7	3071.2	3252.7
35°	2923.3	2922.3	2867.2	2815.2	2824.3	2842.8	2930.4	3118.1	3347.6	3774.0	3934.1
37.5°	3428.2	3452.6	3355.7	3205.9	3156.9	3153.8	3230.4	3508.8	3884.1	4707.2	4771.6
40°	4096.3	4050.4	3933.1	3702.5	3579.2	3544.5	3570.0	3897.4	4473.7	5502.9	5441.6
42.5°	4550.2	4570.6	4442.0	4245.2	4061.6	4035.0	3974.9	4324.8	5112.2	6137.2	5966.0
45°	5094.8	5135.6	4993.9	4854.1	4668.5	4652.2	4561.4	4765.4	5726.2	6607.5	6375.9
47.5°	5569.1	5597.8	5371.3	5240.7	5107.1	5093.9	5008.1	5210.2	6259.7	6994.1	6711.5
50°	6080.2	6103.6	5856.8	5671.2	5544.7	5532.5	5484.5	5708.9	6800.3	7359.2	6989.0
52.5°	6732.0	6644.2	6344.3	6091.4	5950.6	5934.3	5957.8	6206.7	7312.4	7622.4	7211.3
55°	7494.9	7256.2	6872.7	6556.5	6346.4	6357.6	6385.2	6712.6	7747.9	7877.4	7378.6
57.5°	7955.0	7968.2	7680.6	7214.4	6815.6	6793.1	6772.8	7171.6	8101.8	8160.0	7540.8
60°	8569.9	8611.8	8574.1	8286.4	7748.9	7653.0	7320.5	7683.6	8477.2	8388.4	7637.7
62.5°	9037.1	9105.5	9325.7	9148.3	9210.5	9251.3	8336.4	8296.6	8821.9	8544.5	7658.1
65°	8930.1	8995.3	9447.2	9796.0	10452.8	10539.5	10309.0	9076.9	9091.2	8613.8	7592.8
67.5°	8119.2	8186.5	8737.3	9676.7	11244.4	11342.3	11096.5	10431.4	9224.8	8616.9	7426.6
69°	7320.5	7493.9	8038.6	9332.9	11465.8	11520.8	11221.9	10800.7	9222.7	8604.7	7192.0
70°	6843.1	6981.9	7600.0	8936.1	11350.5	11377.0	11146.4	10949.6	9188.1	8497.5	6971.6
72.5°	5501.8	5471.2	6129.1	7575.5	10792.5	10776.2	10801.8	10749.7	9124.9	8105.9	6042.4
75°	3988.2	3999.4	4608.3	5960.9	9383.9	9503.3	10013.3	10322.4	8509.8	7069.5	4446.2
77.5°	2834.6	2858.0	3381.3	4563.4	7734.6	7790.7	8726.1	9054.5	7160.4	5562.0	2423.5
80°	1897.2	1917.6	2407.1	3365.0	5907.8	6035.3	7055.3	7128.7	5419.3	3442.4	438.6
82.5°	1186.2	1196.4	1575.9	2397.0	4310.5	4372.7	4845.0	4703.2	2817.2	767.0	130.6
85°	680.3	692.5	965.9	1517.8	2722.4	2745.8	3061.0	2326.6	675.3	103.0	71.4
87.5°	194.8	209.1	399.8	654.8	1228.1	1218.9	1142.4	762.0	109.2	47.0	33.7
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°	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9
2.5°	1865.5	1880.9	1862.5	1849.2	1833.9	1836.0	1836.0	1818.7	1818.7	1843.2	1846.1
5°	1889.1	1900.3	1868.6	1843.2	1810.5	1803.3	1783.0	1762.5	1755.4	1776.8	1779.9
7.5°	1910.5	1904.3	1866.6	1825.8	1783.0	1749.3	1723.8	1690.1	1674.9	1699.3	1703.4
10°	1931.9	1913.5	1874.8	1825.8	1757.4	1708.5	1670.7	1610.5	1594.2	1606.5	1612.6
12.5°	1991.0	1966.5	1921.7	1837.0	1759.4	1693.2	1619.7	1544.3	1505.5	1519.8	1528.0
15°	2078.8	2042.0	1995.2	1891.1	1783.9	1688.1	1588.2	1468.8	1398.4	1390.3	1392.3
17.5°	2182.8	2144.1	2081.9	1955.3	1818.7	1688.1	1540.1	1390.3	1274.0	1240.3	1244.4
20°	2287.8	2245.0	2195.1	2029.8	1851.3	1662.6	1481.0	1285.2	1118.9	1042.4	1042.4
22.5°	2408.2	2377.6	2293.9	2089.0	1862.5	1622.8	1390.3	1143.4	939.4	827.3	823.1
25°	2564.2	2536.8	2382.7	2135.9	1853.3	1572.8	1272.9	976.2	723.2	608.9	602.8
27.5°	2738.7	2684.6	2469.4	2170.6	1821.8	1492.2	1116.9	764.0	503.9	395.8	390.7
30°	2932.4	2853.9	2535.7	2164.4	1763.6	1356.6	933.2	513.1	293.8	222.4	222.4
32.5°	3211.0	3068.1	2614.2	2150.1	1683.0	1194.4	685.4	304.0	146.9	113.2	113.2
35°	3754.6	3486.3	2733.6	2111.4	1552.4	980.2	431.5	136.7	80.6	79.6	79.6
37.5°	4483.9	4025.9	2925.3	2054.3	1372.9	713.0	215.3	75.5	75.5	77.5	76.5
40°	5123.5	4607.3	3181.4	1967.6	1176.1	449.8	97.9	72.4	76.5	79.6	79.6
42.5°	5598.7	5056.1	3429.2	1841.0	939.4	229.5	81.6	70.4	73.5	74.5	75.5
45°	6001.7	5433.5	3627.1	1680.9	687.5	109.2	81.6	69.3	69.3	69.3	70.4
47.5°	6310.6	5709.9	3762.8	1492.2	427.4	91.8	85.6	68.4	64.2	62.2	63.3
50°	6552.4	5902.7	3810.7	1282.2	211.1	92.8	83.6	64.2	56.1	57.1	58.2
52.5°	6722.7	6058.7	3759.7	1019.9	109.2	97.9	84.7	62.2	50.0	53.0	53.0
55°	6880.9	6097.5	3630.2	725.2	97.9	98.9	84.7	57.1	42.8	49.0	52.0
57.5°	6920.6	6096.5	3427.2	456.0	105.0	93.8	80.6	56.1	40.8	49.0	51.0
60°	6979.8	6046.5	3148.8	278.4	110.1	86.7	75.5	53.0	38.8	40.8	42.8
62.5°	6915.5	5960.9	2731.6	184.6	106.1	80.6	73.5	51.0	33.7	30.6	29.6
65°	6790.0	5674.2	2061.4	148.9	98.9	78.5	66.3	44.8	27.6	19.4	18.3
67.5°	6497.4	5129.5	1090.3	140.8	92.8	77.5	59.1	41.9	22.5	11.2	10.2
69°	6152.6	4577.7	494.7	142.8	108.1	77.5	60.2	36.7	20.4	8.2	7.1
70°	5792.6	4073.8	225.4	138.7	117.3	81.6	59.1	33.7	18.3	7.1	6.1
72.5°	4467.6	2532.6	154.0	123.4	130.6	79.6	59.1	31.6	17.4	4.0	3.1
75°	2652.0	628.3	138.7	97.9	124.4	96.9	71.4	34.7	15.3	2.0	0.0
77.5°	687.5	175.4	117.3	74.5	110.1	109.2	82.7	34.7	15.3	0.0	0.0
80°	177.4	134.6	101.0	47.9	86.7	106.1	67.3	38.8	12.2	0.0	0.0
82.5°	106.1	97.9	110.1	29.6	69.3	71.4	39.7	27.6	13.2	0.0	0.0
85°	61.2	84.7	77.5	22.5	13.2	7.1	16.3	30.6	13.2	0.0	0.0
87.5°	35.7	45.9	17.4	3.1	3.1	2.0	1.1	4.0	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)