

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: P287007

Luminaire Tested: **USSL-C027-D-U-T2-BZ-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P287007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-5)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-C027-D-U-T2-BZ-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12145 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 96
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



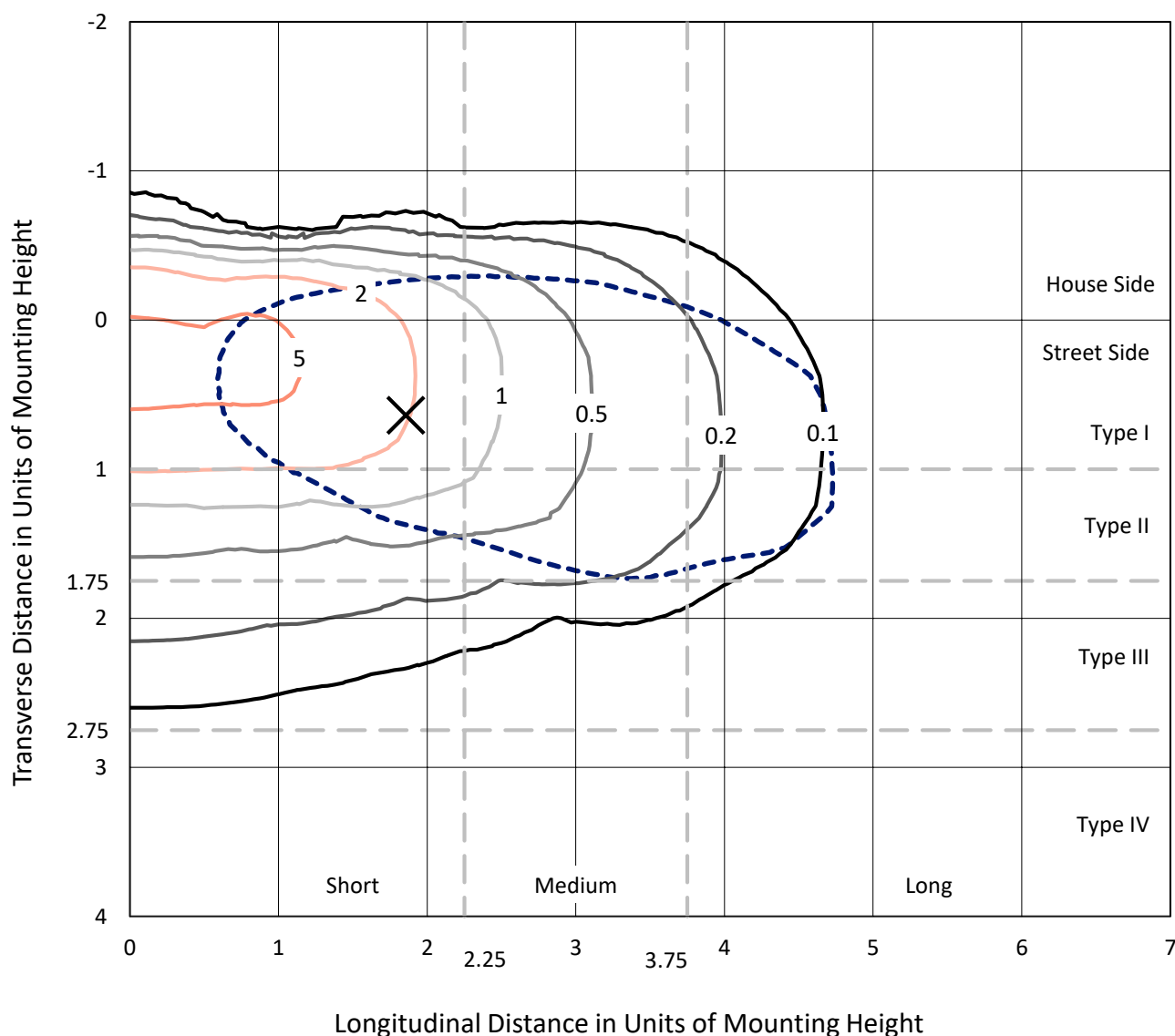
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

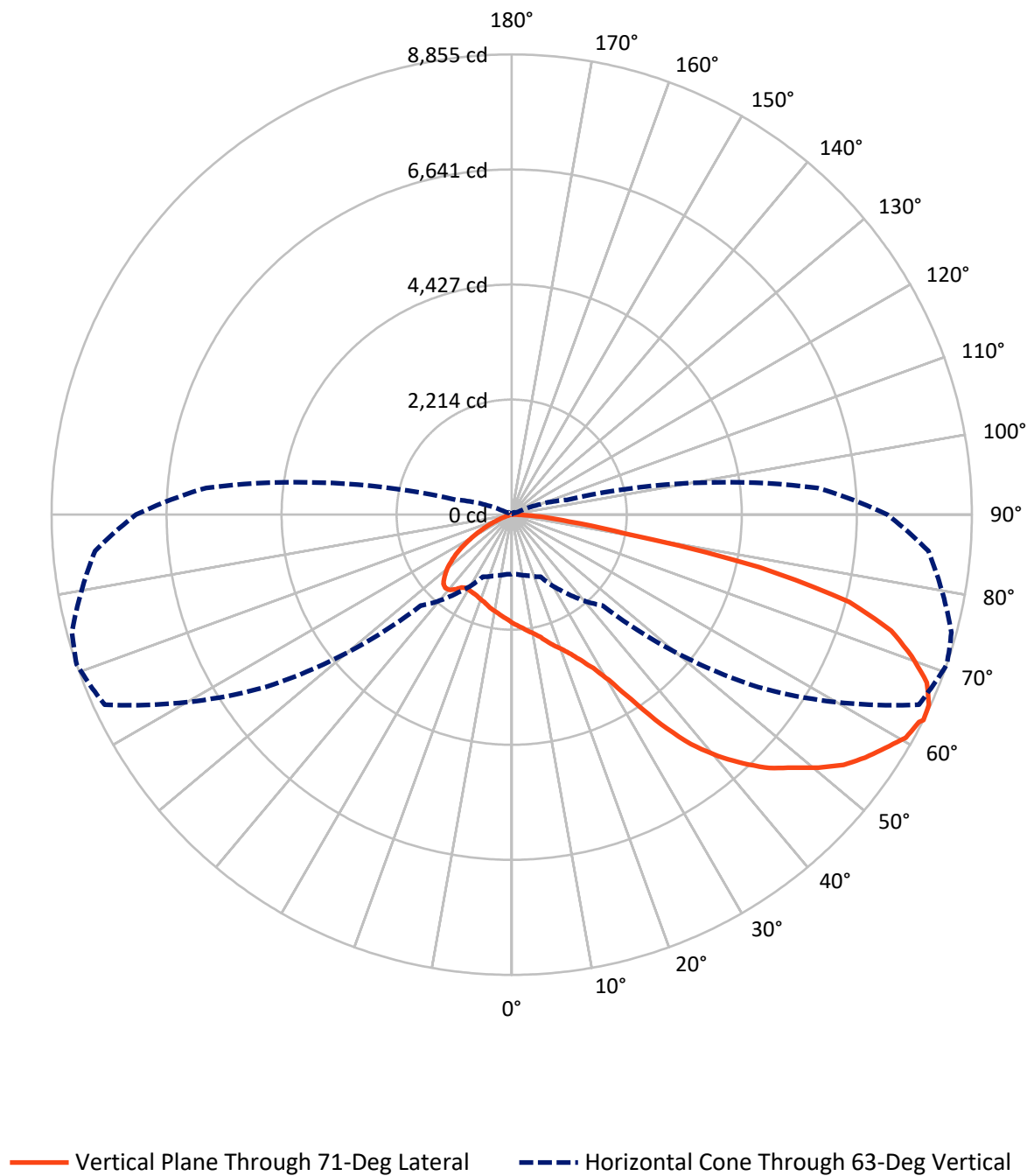


Based on 20 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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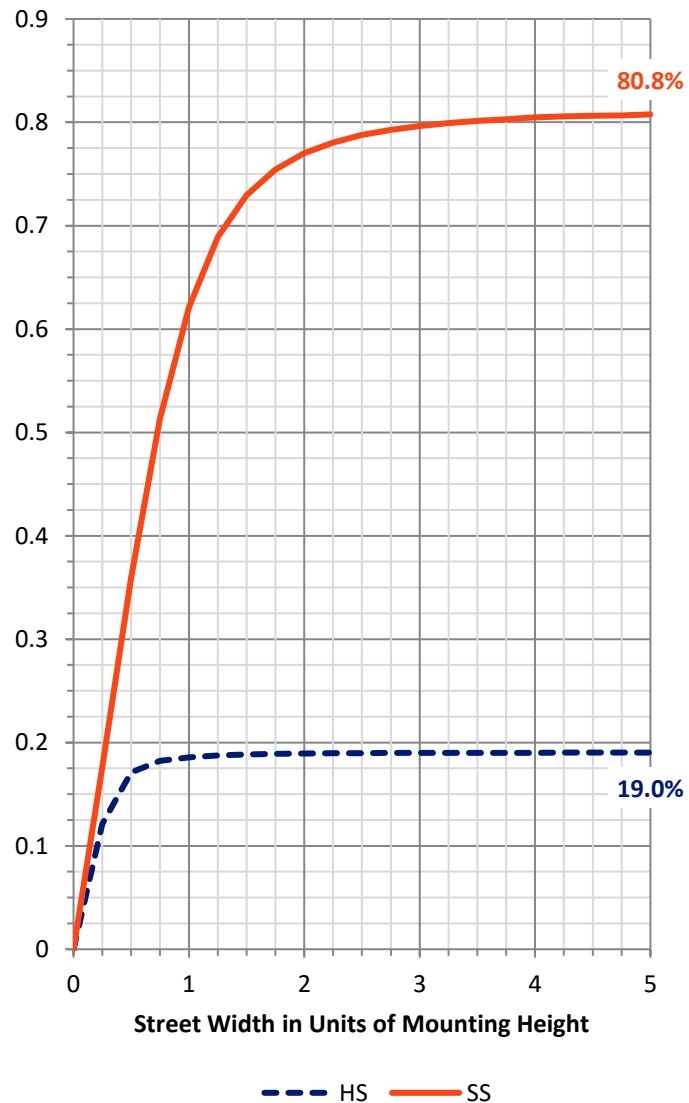
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2337.5	0.0	2337.5
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	9807.5	0.0	9807.5
	% Fixture	80.8	0.0	80.8
Total	Lumens	12145.0	0.0	12145.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.7	1.6
10°-20°	597.1	4.9
20°-30°	1004.1	8.3
30°-40°	1534.6	12.6
40°-50°	2137.7	17.6
50°-60°	2475.9	20.4
60°-70°	2451.9	20.2
70°-80°	1519.9	12.5
80°-90°	225.1	1.9
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°	12145.0	100.0
0°-180°	12145.0	100.0

Coefficient of Utilization



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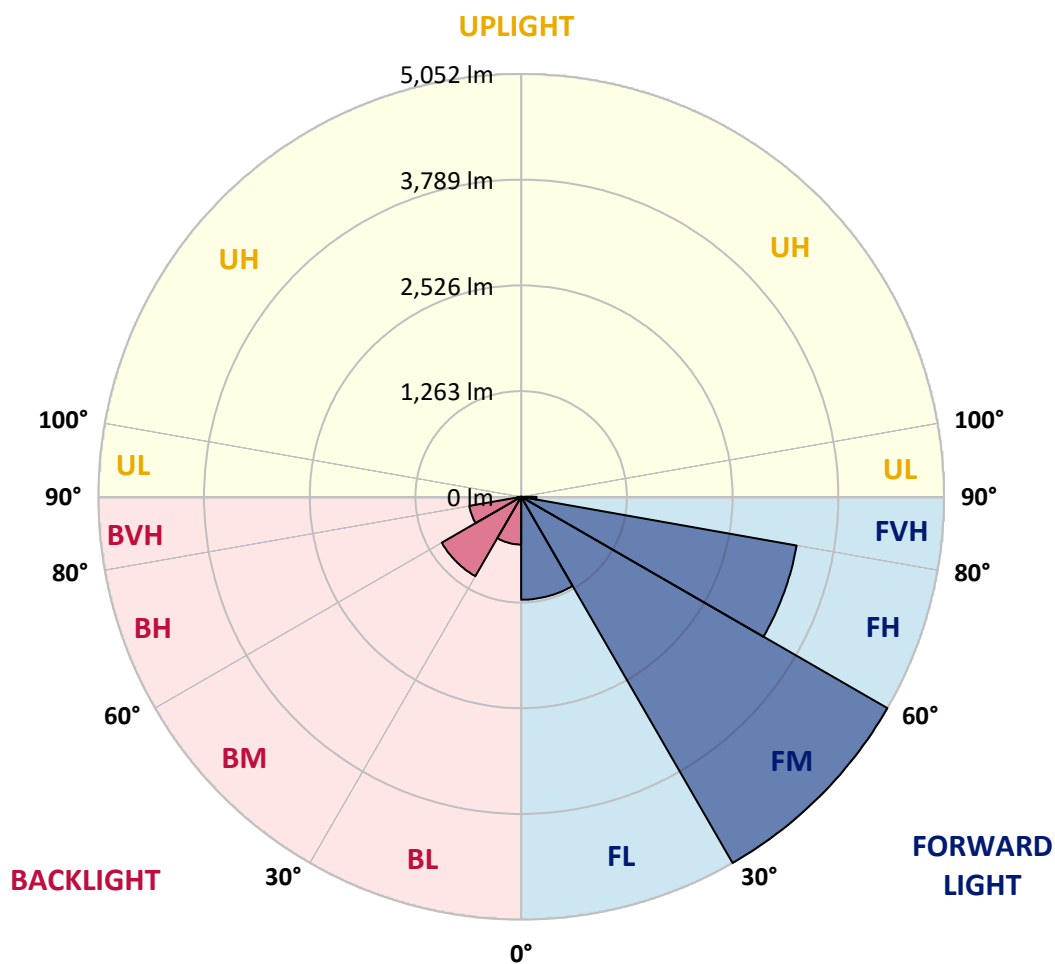
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1229.9	10.1			
FM	(30°-60°)	5052.5	41.6			
FH	(60°-80°)	3342.9	27.5			G2/5000
FVH	(80°-90°)	182.3	1.5			G2/225
BL	(0°-30°)	570.0	4.7	B2/1000		
BM	(30°-60°)	1095.7	9.0	B2/2500		
BH	(60°-80°)	629.0	5.2	B2/1000		G2/1000
BVH	(80°-90°)	42.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2087.4	2087.4	2087.4	2087.4	2087.4	2087.4	2087.4	2087.4	2087.4	2087.4	2087.4
2.5°	2298.8	2276.9	2276.2	2248.5	2227.9	2216.3	2184.7	2157.0	2133.2	2130.6	2088.1
5°	2423.8	2418.7	2411.6	2368.4	2349.1	2323.3	2288.5	2235.0	2191.8	2180.9	2113.2
7.5°	2565.0	2561.1	2546.9	2508.2	2459.3	2429.0	2361.3	2307.8	2262.1	2238.9	2147.3
10°	2646.2	2645.5	2644.2	2612.0	2574.0	2529.5	2457.3	2378.7	2325.9	2301.4	2169.3
12.5°	2775.0	2757.6	2751.8	2712.5	2664.2	2632.0	2565.6	2481.2	2409.6	2366.5	2218.9
15°	2878.8	2879.5	2868.5	2833.1	2797.0	2745.4	2689.3	2604.9	2526.3	2493.4	2303.9
17.5°	3007.7	2996.1	2983.2	2945.8	2907.8	2853.7	2818.9	2716.4	2652.0	2579.8	2378.7
20°	3089.5	3069.6	3055.4	3031.5	3016.1	2972.9	2941.3	2850.5	2762.2	2700.3	2462.5
22.5°	3146.3	3166.9	3161.1	3122.4	3128.2	3115.3	3075.4	3014.1	2914.9	2813.1	2559.2
25°	3181.1	3176.5	3210.1	3235.2	3279.0	3276.4	3246.8	3193.3	3105.0	2995.5	2703.5
27.5°	3191.4	3191.4	3245.5	3316.4	3419.5	3442.1	3445.9	3442.7	3344.8	3245.5	2893.0
30°	3206.8	3224.2	3276.4	3364.7	3514.2	3603.8	3646.4	3717.9	3693.4	3607.0	3202.3
32.5°	3145.6	3147.5	3223.6	3393.7	3611.6	3797.8	3881.6	4134.9	4242.5	4282.4	3829.4
35°	2948.4	2968.4	3106.9	3341.5	3656.7	3964.7	4192.2	4715.5	4952.7	4957.8	4429.4
37.5°	2811.8	2831.1	2980.0	3266.1	3692.1	4132.9	4547.3	5367.7	5607.5	5548.2	4946.9
40°	2662.3	2694.5	2852.4	3164.3	3687.0	4297.9	4926.9	5945.2	6105.0	6027.0	5370.3
42.5°	2516.6	2521.8	2677.1	3023.2	3660.5	4432.0	5298.1	6371.8	6548.4	6447.8	5785.3
45°	2340.0	2363.2	2516.6	2835.6	3572.9	4514.4	5624.9	6839.7	6957.0	6844.8	6132.0
47.5°	2136.4	2166.0	2363.2	2662.3	3378.3	4526.7	5918.7	7260.5	7272.1	7183.2	6496.8
50°	1649.8	1668.5	2073.9	2491.5	3145.6	4477.7	6199.1	7575.6	7651.0	7535.0	6808.1
52.5°	1493.9	1509.3	1622.8	2269.1	2834.3	4314.0	6395.0	7937.8	7999.0	7897.2	7112.3
55°	1432.0	1439.1	1479.0	1839.3	2573.3	4023.4	6518.7	8208.5	8252.3	8126.0	7364.3
57.5°	1323.7	1330.2	1415.2	1568.6	2354.2	3542.6	6503.3	8475.3	8472.1	8330.9	7625.3
60°	1241.9	1255.4	1327.6	1442.3	2090.0	2963.9	6291.2	8679.6	8711.2	8581.6	7815.4
62.5°	1164.5	1169.7	1230.9	1341.8	1875.4	2541.8	5892.3	8660.9	8794.3	8698.3	8054.5
63°	1142.6	1152.3	1212.9	1320.5	1844.4	2475.4	5784.7	8646.1	8854.9	8760.8	8048.7
65°	1075.0	1076.2	1135.5	1237.4	1696.9	2268.5	5427.0	8450.2	8823.3	8766.6	8148.6
67.5°	946.1	955.7	1008.6	1107.8	1450.7	2005.6	4502.8	8320.0	8618.4	8648.0	7985.5
70°	803.0	808.8	873.9	971.2	1219.3	1701.4	3368.0	7866.3	8164.7	8201.4	7556.9
72.5°	629.6	632.9	703.8	817.2	997.6	1404.9	2323.9	7075.5	7635.6	7635.6	6824.2
75°	197.8	233.9	493.0	658.6	806.2	1087.2	1526.7	5489.5	6711.4	6878.3	5842.7
77.5°	64.4	69.6	156.0	347.4	507.8	834.6	1013.7	2918.1	4875.3	5334.2	4608.5
80°	46.4	54.1	96.7	260.4	319.7	355.1	628.3	1590.5	2215.7	2903.9	3077.9
82.5°	23.8	30.9	68.3	165.6	181.7	179.2	279.1	752.1	1106.5	1336.6	1597.0
85°	11.0	13.5	29.6	58.0	50.3	47.0	98.6	393.8	623.8	737.3	796.6
87.5°	2.6	3.9	11.0	20.6	12.9	10.3	11.6	125.0	227.5	283.6	293.2
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°	2087.4	2087.4	2087.4	2087.4	2087.4	2087.4	2087.4	2087.4	2087.4	2087.4	2087.4
2.5°	2070.0	2080.3	2031.3	2007.5	1966.9	1954.0	1934.0	1910.2	1902.4	1921.8	1908.9
5°	2088.1	2073.9	2003.0	1938.5	1884.4	1841.9	1809.6	1769.0	1744.6	1750.4	1754.2
7.5°	2095.1	2063.6	1963.0	1883.8	1792.2	1737.5	1678.8	1621.5	1597.0	1600.8	1603.4
10°	2102.2	2054.5	1936.0	1819.3	1710.4	1626.0	1559.0	1482.9	1446.2	1447.5	1459.7
12.5°	2144.1	2051.3	1913.4	1772.3	1631.1	1526.1	1444.2	1359.8	1307.6	1311.5	1321.1
15°	2203.4	2079.0	1884.4	1702.7	1554.4	1435.2	1333.4	1239.9	1200.0	1205.8	1214.8
17.5°	2254.3	2110.0	1861.8	1629.2	1461.6	1333.4	1241.2	1161.3	1088.5	1099.5	1093.0
20°	2305.9	2153.8	1854.8	1567.3	1381.7	1234.1	1129.7	1065.3	975.1	950.6	942.8
22.5°	2388.4	2202.8	1848.3	1510.6	1287.0	1147.1	1017.0	922.2	792.7	748.2	730.8
25°	2496.6	2273.0	1838.6	1459.7	1208.4	1043.4	866.8	696.7	600.6	543.9	517.5
27.5°	2642.9	2373.5	1852.8	1414.6	1129.1	920.3	658.0	505.9	420.2	371.2	343.5
30°	2887.8	2505.0	1856.0	1374.0	1032.4	734.0	468.5	351.9	279.1	245.5	228.8
32.5°	3426.0	2903.9	1885.0	1327.6	928.7	540.1	326.1	235.9	177.9	156.6	166.3
35°	3991.8	3393.7	1989.5	1261.9	766.3	365.4	215.2	152.7	114.1	117.3	120.5
37.5°	4421.0	3774.0	2208.6	1181.3	576.1	250.1	129.5	104.4	100.5	109.6	126.3
40°	4843.1	4152.3	2403.8	1084.0	390.5	150.2	87.6	96.0	90.2	94.1	95.4
42.5°	5213.0	4453.9	2543.7	940.3	241.7	88.3	76.7	88.9	82.5	80.6	70.9
45°	5570.7	4714.9	2630.0	741.8	138.6	70.2	70.2	85.1	79.9	75.4	64.4
47.5°	5887.2	5006.8	2608.8	512.3	84.4	63.2	65.7	76.7	74.8	69.0	63.2
50°	6178.4	5218.2	2553.4	290.7	74.1	59.9	63.8	63.8	67.0	52.2	47.7
52.5°	6432.4	5405.7	2374.8	155.3	69.0	57.4	57.4	50.9	54.1	40.0	38.0
55°	6693.4	5602.3	2123.5	121.8	65.7	57.4	50.9	44.5	40.6	29.0	30.9
57.5°	6908.0	5747.3	1798.0	109.6	67.7	54.8	46.4	38.7	32.2	22.6	21.9
60°	7106.5	5867.2	1482.3	97.3	72.8	55.4	38.7	32.2	22.6	18.0	16.1
62.5°	7226.3	5894.2	1149.7	88.3	72.8	50.9	34.8	27.1	17.4	12.2	11.6
63°	7230.2	5902.6	1097.5	87.6	74.1	50.9	34.8	26.4	16.1	11.6	11.0
65°	7286.9	5728.0	866.2	85.7	75.4	48.3	32.9	21.3	13.5	9.0	8.4
67.5°	7070.4	5391.6	569.7	84.4	75.4	47.0	29.0	18.0	11.6	7.1	5.8
70°	6498.1	4816.1	348.7	81.2	76.7	46.4	36.1	15.5	10.3	5.2	4.5
72.5°	5709.3	4254.1	200.4	72.2	75.4	38.0	20.6	13.5	9.0	3.9	3.2
75°	4832.8	3419.5	126.3	56.1	58.6	31.6	17.4	12.2	7.7	1.9	1.9
77.5°	3672.1	2460.6	108.3	43.2	34.8	27.7	14.8	9.7	5.2	0.6	0.6
80°	2593.3	1738.8	78.0	27.1	19.3	17.4	11.0	6.4	1.9	0.0	0.0
82.5°	1459.7	949.9	42.5	9.7	5.8	6.4	5.2	2.6	0.0	0.0	0.0
85°	688.3	371.2	21.3	6.4	3.2	2.6	0.6	0.0	0.0	0.0	0.0
87.5°	255.9	89.6	5.2	2.6	1.9	0.6	0.0	0.0	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)