Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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-AP-HSS**

Issue Date: 3/3/2020

Report Generated By E9812814

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Scaled Data Report

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-AP-HSS
Description:	PREVAIL AREA AND ROADWAY LUMINAIRE
	(2) 70 CRI, 4000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, GRAY PAINTED FINISH
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12872.5 lumens
Efficiency:	N/A
Efficacy:	134.1 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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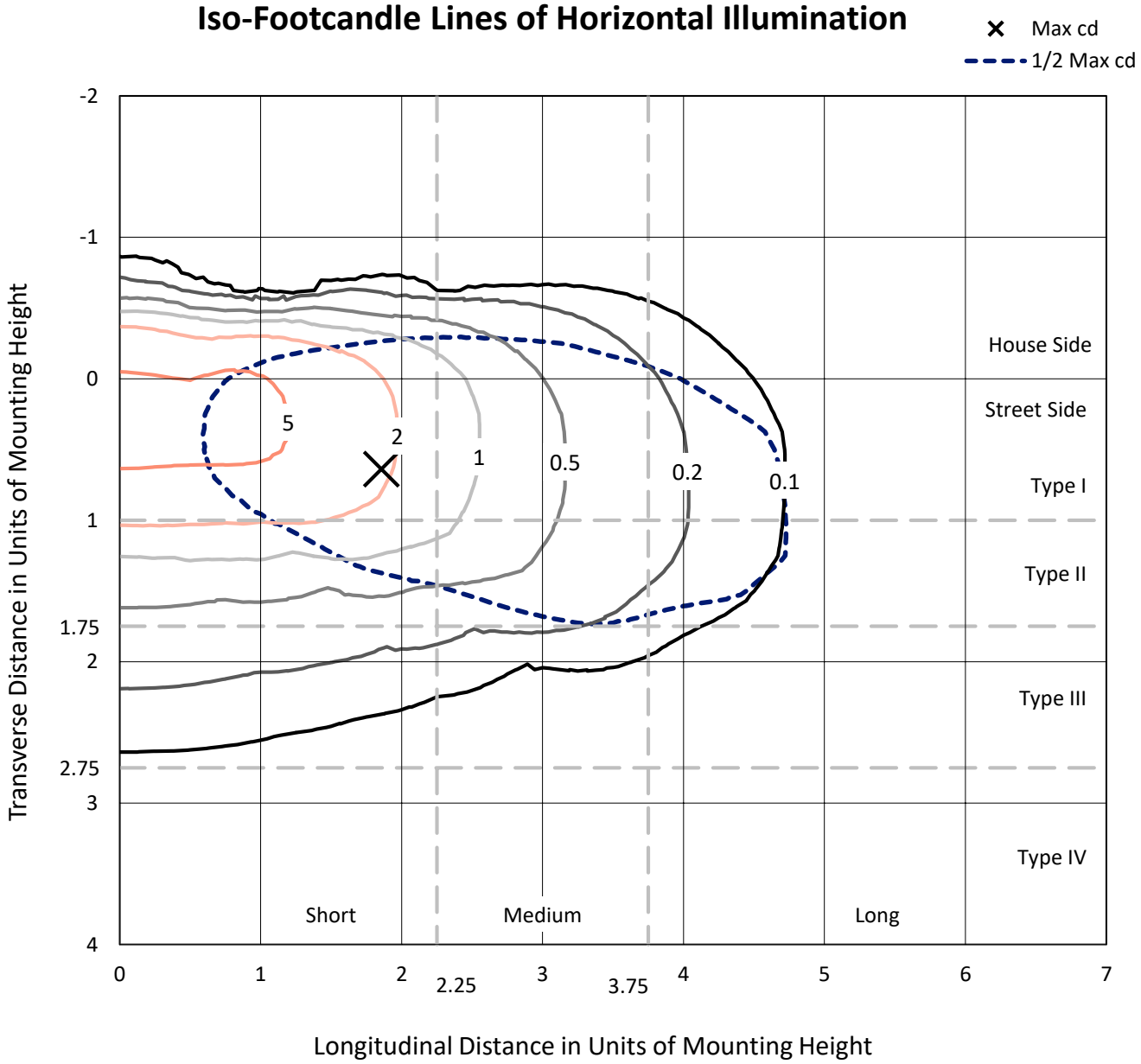
Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 7.4 fc
Type II - Short - Non-Cutoff

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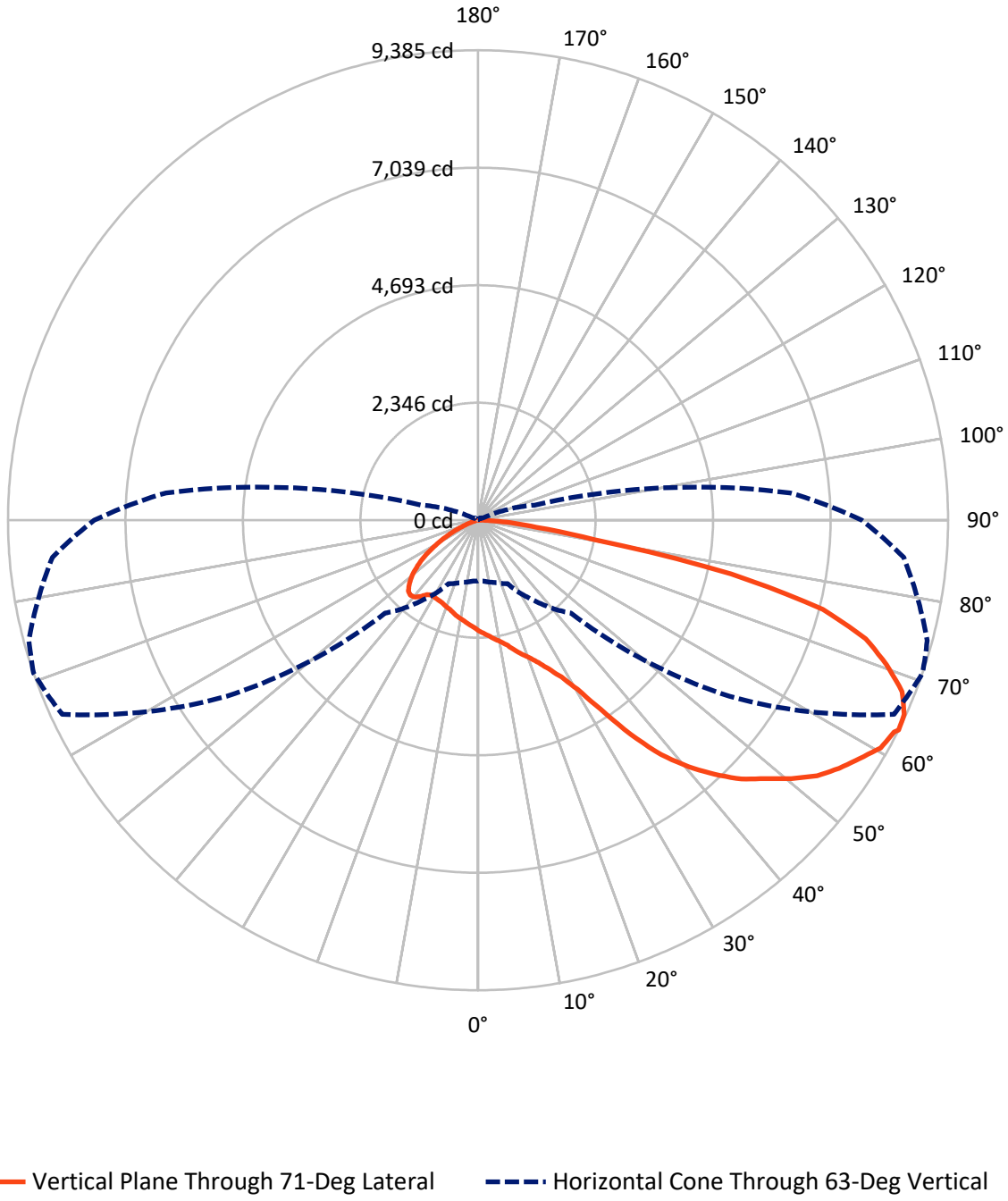
Luminous Intensity Polar Plot



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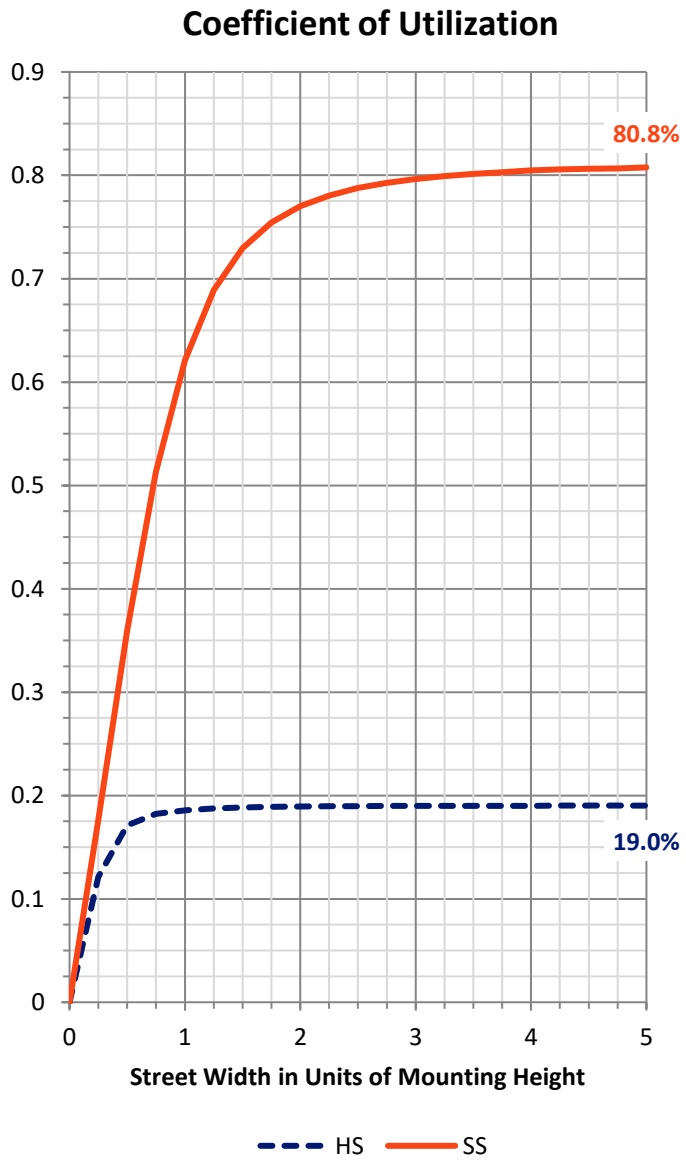
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2477.5	0.0	2477.5
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	10395.0	0.0	10395.0
	% Fixture	80.8	0.0	80.8
Total	Lumens	12872.5	0.0	12872.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.6	1.6
10°-20°	632.8	4.9
20°-30°	1064.3	8.3
30°-40°	1626.5	12.6
40°-50°	2265.8	17.6
50°-60°	2624.2	20.4
60°-70°	2598.8	20.2
70°-80°	1611.0	12.5
80°-90°	238.5	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°	12872.5	100.0
0°-180°	12872.5	100.0



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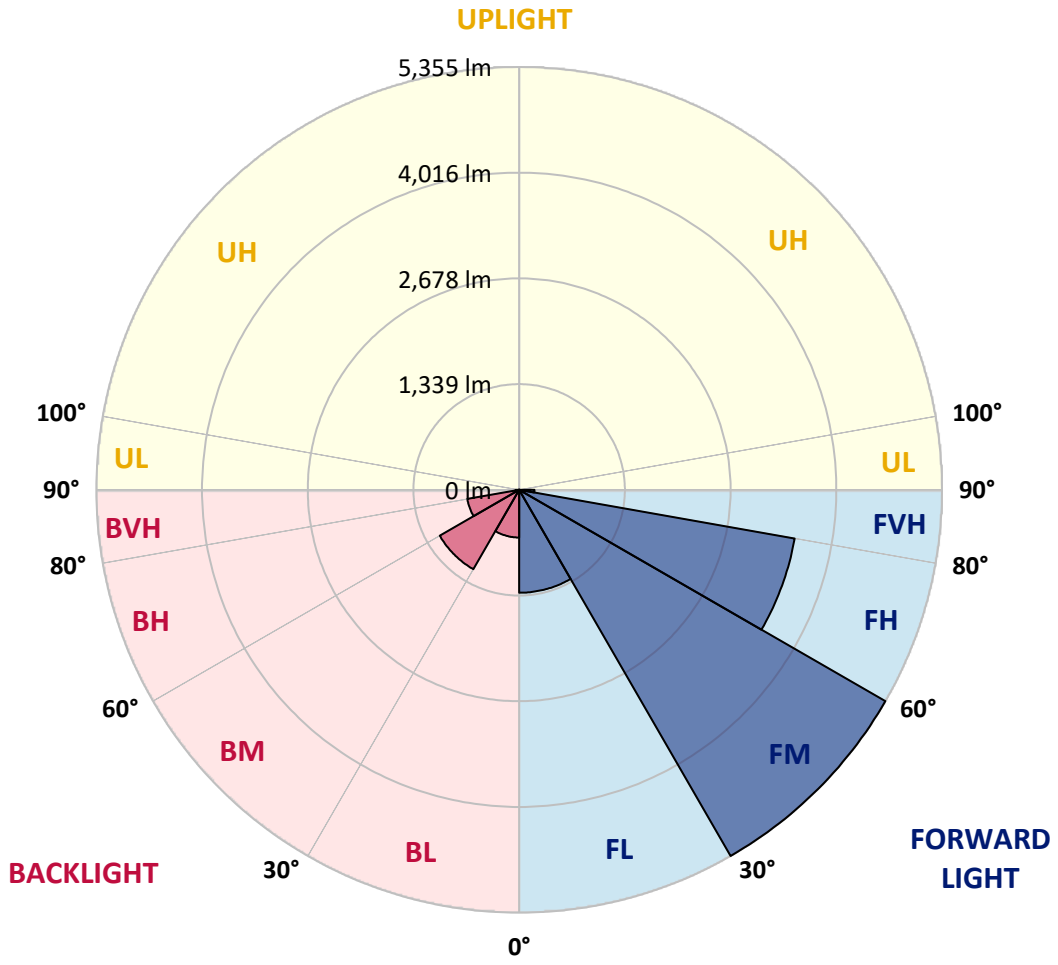
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1303.6	10.1			
FM	(30°-60°)	5355.1	41.6			
FH	(60°-80°)	3543.2	27.5			G2/5000
FVH	(80°-90°)	193.2	1.5			G2/225
BL	(0°-30°)	604.2	4.7	B2/1000		
BM	(30°-60°)	1161.3	9.0	B2/2500		
BH	(60°-80°)	666.6	5.2	B2/1000		G2/1000
BVH	(80°-90°)	45.3	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°	2212.4	2212.4	2212.4	2212.4	2212.4	2212.4	2212.4	2212.4	2212.4	2212.4	2212.4
2.5°	2436.5	2413.3	2412.5	2383.2	2361.4	2349.1	2315.6	2286.2	2261.0	2258.2	2213.2
5°	2569.0	2563.6	2556.1	2510.3	2489.8	2462.5	2425.6	2368.9	2323.1	2311.5	2239.8
7.5°	2718.6	2714.5	2699.5	2658.4	2606.6	2574.5	2502.7	2446.0	2397.6	2373.0	2275.9
10°	2804.7	2804.0	2802.6	2768.5	2728.2	2681.0	2604.5	2521.2	2465.2	2439.3	2299.2
12.5°	2941.2	2922.8	2916.6	2875.0	2823.8	2789.7	2719.3	2629.8	2553.9	2508.3	2351.8
15°	3051.2	3052.0	3040.3	3002.8	2964.5	2909.8	2850.4	2760.9	2677.6	2642.8	2441.9
17.5°	3187.9	3175.6	3161.9	3122.3	3082.0	3024.6	2987.8	2879.1	2810.9	2734.3	2521.2
20°	3274.6	3253.5	3238.4	3213.1	3196.8	3151.0	3117.5	3021.2	2927.7	2862.0	2610.0
22.5°	3334.8	3356.6	3350.4	3309.4	3315.6	3301.9	3259.6	3194.6	3089.5	2981.6	2712.5
25°	3371.6	3366.8	3402.4	3429.0	3475.4	3472.7	3441.3	3384.6	3291.0	3174.9	2865.4
27.5°	3382.6	3382.6	3439.9	3515.1	3624.3	3648.3	3652.3	3648.9	3545.2	3439.9	3066.3
30°	3398.9	3417.3	3472.7	3566.2	3724.7	3819.7	3864.8	3940.6	3914.6	3823.1	3394.1
32.5°	3334.0	3336.0	3416.7	3597.0	3827.9	4025.3	4114.1	4382.6	4496.6	4538.9	4058.8
35°	3125.0	3146.2	3293.0	3541.7	3875.7	4202.2	4443.3	4998.0	5249.4	5254.8	4694.7
37.5°	2980.2	3000.7	3158.5	3461.7	3913.3	4380.5	4819.7	5689.2	5943.4	5880.5	5243.2
40°	2821.8	2855.9	3023.3	3353.8	3907.9	4555.3	5222.0	6301.3	6470.7	6388.0	5692.0
42.5°	2667.3	2672.9	2837.5	3204.3	3879.8	4697.5	5615.5	6753.5	6940.6	6834.0	6131.8
45°	2480.2	2504.8	2667.3	3005.5	3786.9	4784.8	5961.8	7249.4	7373.7	7254.8	6499.3
47.5°	2264.4	2295.7	2504.8	2821.8	3580.7	4797.8	6273.2	7695.4	7707.7	7613.5	6886.0
50°	1748.6	1768.4	2198.1	2640.7	3334.0	4745.9	6570.4	8029.4	8109.3	7986.3	7215.9
52.5°	1583.4	1599.7	1720.0	2405.0	3004.1	4572.4	6778.1	8413.3	8478.1	8370.2	7538.3
55°	1517.8	1525.3	1567.6	1949.5	2727.4	4264.4	6909.2	8700.2	8746.6	8612.7	7805.4
57.5°	1403.0	1409.9	1500.0	1662.6	2495.2	3754.8	6892.8	8983.0	8979.6	8829.9	8082.1
60°	1316.3	1330.6	1407.1	1528.7	2215.2	3141.4	6668.0	9199.5	9233.0	9095.6	8283.5
62.5°	1234.3	1239.8	1304.6	1422.2	1987.7	2694.1	6245.2	9179.7	9321.1	9219.3	8537.0
63°	1211.0	1221.3	1285.6	1399.6	1954.9	2623.7	6131.2	9164.0	9385.3	9285.6	8530.8
65°	1139.4	1140.7	1203.5	1311.5	1798.5	2404.4	5752.1	8956.4	9351.8	9291.7	8636.7
67.5°	1002.8	1012.9	1069.0	1174.2	1537.6	2125.7	4772.5	8818.4	9134.6	9166.0	8463.8
70°	851.1	857.2	926.2	1029.4	1292.3	1803.3	3569.7	8337.5	8653.8	8692.7	8009.6
72.5°	667.3	670.8	746.0	866.2	1057.4	1489.1	2463.1	7499.3	8093.0	8093.0	7233.0
75°	209.6	247.9	522.5	698.1	854.5	1152.3	1618.1	5818.3	7113.4	7290.3	6192.7
77.5°	68.3	73.8	165.3	368.2	538.2	884.6	1074.4	3092.9	5167.3	5653.7	4884.5
80°	49.2	57.3	102.5	276.0	338.9	376.4	665.9	1685.8	2348.4	3077.8	3262.3
82.5°	25.2	32.8	72.4	175.5	192.6	189.9	295.8	797.2	1172.8	1416.7	1692.7
85°	11.7	14.3	31.4	61.5	53.3	49.8	104.5	417.4	661.2	781.5	844.3
87.5°	2.8	4.1	11.7	21.8	13.7	10.9	12.3	132.5	241.1	300.6	310.8
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°	2212.4	2212.4	2212.4	2212.4	2212.4	2212.4	2212.4	2212.4	2212.4	2212.4	2212.4
2.5°	2194.0	2204.9	2153.0	2127.7	2084.7	2071.0	2049.8	2024.6	2016.4	2036.9	2023.2
5°	2213.2	2198.1	2123.0	2054.6	1997.3	1952.2	1918.0	1875.0	1849.1	1855.2	1859.3
7.5°	2220.6	2187.2	2080.6	1996.6	1899.6	1841.6	1779.4	1718.6	1692.7	1696.7	1699.4
10°	2228.1	2177.6	2052.0	1928.3	1812.9	1723.4	1652.4	1571.7	1532.8	1534.2	1547.1
12.5°	2272.5	2174.2	2028.0	1878.5	1728.8	1617.5	1530.7	1441.3	1385.9	1390.1	1400.2
15°	2335.4	2203.5	1997.3	1804.7	1647.5	1521.2	1413.3	1314.2	1271.9	1278.0	1287.6
17.5°	2389.3	2236.4	1973.3	1726.8	1549.1	1413.3	1315.5	1230.9	1153.7	1165.4	1158.5
20°	2444.0	2282.8	1965.9	1661.2	1464.5	1308.0	1197.4	1129.1	1033.5	1007.5	999.3
22.5°	2531.5	2334.7	1959.0	1601.1	1364.1	1215.8	1077.9	977.4	840.2	793.0	774.6
25°	2646.1	2409.2	1948.7	1547.1	1280.8	1105.9	918.7	738.4	636.6	576.5	548.5
27.5°	2801.2	2515.7	1963.8	1499.3	1196.7	975.4	697.4	536.2	445.4	393.4	364.1
30°	3060.8	2655.0	1967.2	1456.3	1094.2	778.0	496.6	373.0	295.8	260.2	242.5
32.5°	3631.2	3077.8	1997.9	1407.1	984.3	572.5	345.6	250.0	188.6	166.0	176.3
35°	4230.9	3597.0	2108.7	1337.5	812.2	387.3	228.1	161.8	120.9	124.3	127.7
37.5°	4685.8	4000.1	2340.9	1252.1	610.6	265.1	137.3	110.7	106.5	116.2	133.9
40°	5133.2	4401.0	2547.8	1148.9	413.9	159.2	92.8	101.8	95.6	99.7	101.1
42.5°	5525.3	4720.7	2696.1	996.6	256.2	93.6	81.3	94.2	87.4	85.4	75.1
45°	5904.4	4997.3	2787.5	786.2	146.9	74.4	74.4	90.2	84.7	79.9	68.3
47.5°	6239.8	5306.7	2765.1	543.0	89.5	67.0	69.6	81.3	79.3	73.1	67.0
50°	6548.5	5530.8	2706.3	308.1	78.5	63.5	67.6	67.6	71.0	55.3	50.6
52.5°	6817.7	5729.5	2517.1	164.6	73.1	60.8	60.8	53.9	57.3	42.4	40.3
55°	7094.3	5937.9	2250.7	129.1	69.6	60.8	53.9	47.2	43.0	30.7	32.8
57.5°	7321.8	6091.6	1905.7	116.2	71.8	58.1	49.2	41.0	34.1	24.0	23.2
60°	7532.2	6218.6	1571.1	103.1	77.2	58.7	41.0	34.1	24.0	19.1	17.1
62.5°	7659.2	6247.3	1218.6	93.6	77.2	53.9	36.9	28.7	18.4	12.9	12.3
63°	*7663.3*	*6256.2*	*1163.2*	*92.8*	*78.5*	*53.9*	*36.9*	*28.0*	*17.1*	*12.3*	*11.7*
65°	7723.4	6071.1	918.1	90.8	79.9	51.2	34.9	22.6	14.3	9.5	8.9
67.5°	7493.9	5714.6	603.8	89.5	79.9	49.8	30.7	19.1	12.3	7.5	6.1
70°	6887.3	5104.6	369.6	86.1	81.3	49.2	38.3	16.4	10.9	5.5	4.8
72.5°	6051.3	4508.9	212.4	76.5	79.9	40.3	21.8	14.3	9.5	4.1	3.4
75°	5122.3	3624.3	133.9	59.5	62.1	33.5	18.4	12.9	8.2	2.0	2.0
77.5°	3892.1	2608.0	114.8	45.8	36.9	29.4	15.7	10.3	5.5	0.6	0.6
80°	2748.6	1843.0	82.7	28.7	20.5	18.4	11.7	6.8	2.0	0.0	0.0
82.5°	1547.1	1006.8	45.0	10.3	6.1	6.8	5.5	2.8	0.0	0.0	0.0
85°	729.5	393.4	22.6	6.8	3.4	2.8	0.6	0.0	0.0	0.0	0.0
87.5°	271.2	95.0	5.5	2.8	2.0	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)