

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: P287009

Luminaire Tested: **USSL-C02-D-U-T2-BZ-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P287009
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-C02-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: 18471 lumens
Efficiency: N/A
Efficacy: 120.7 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 - G3

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



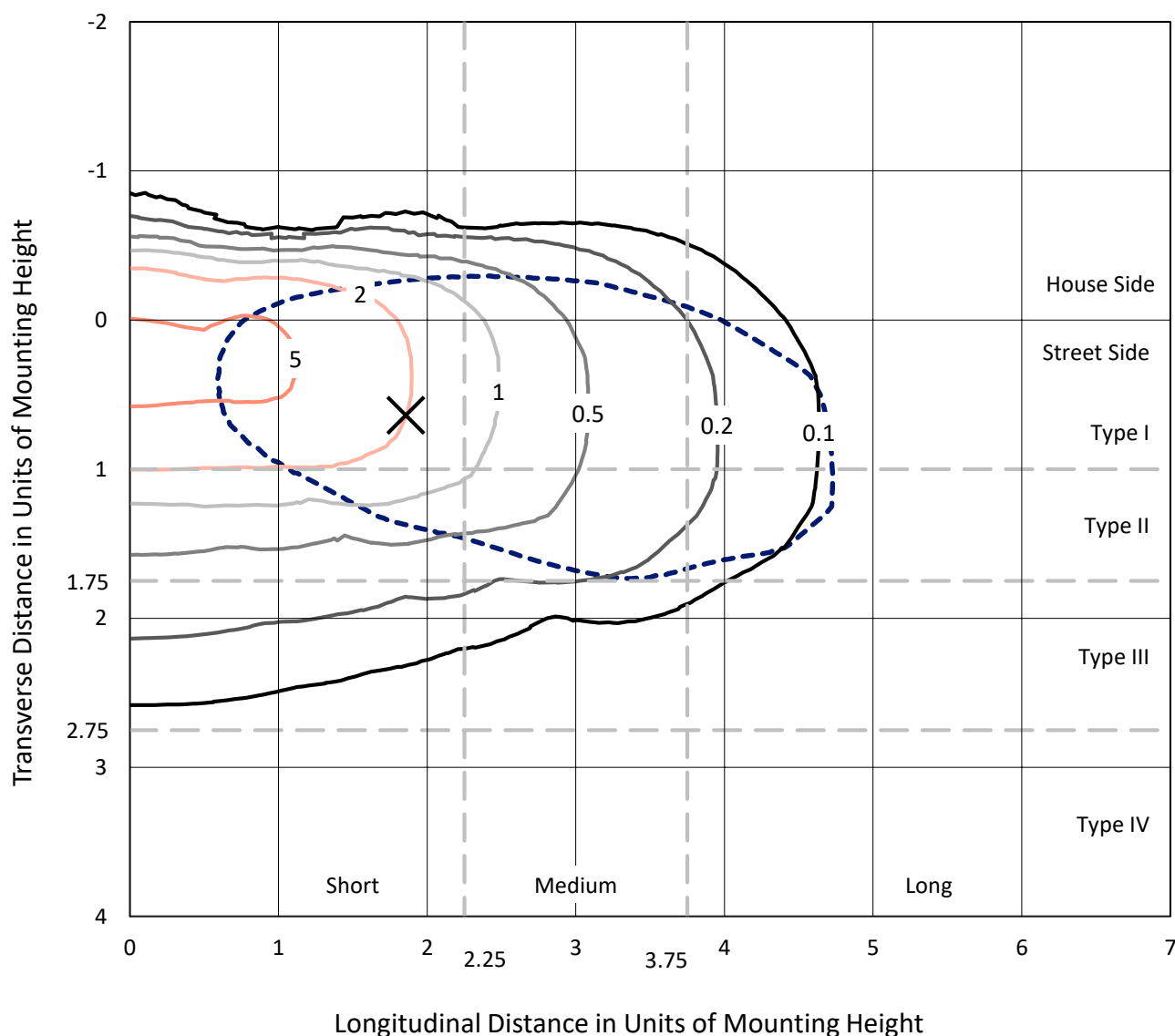
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

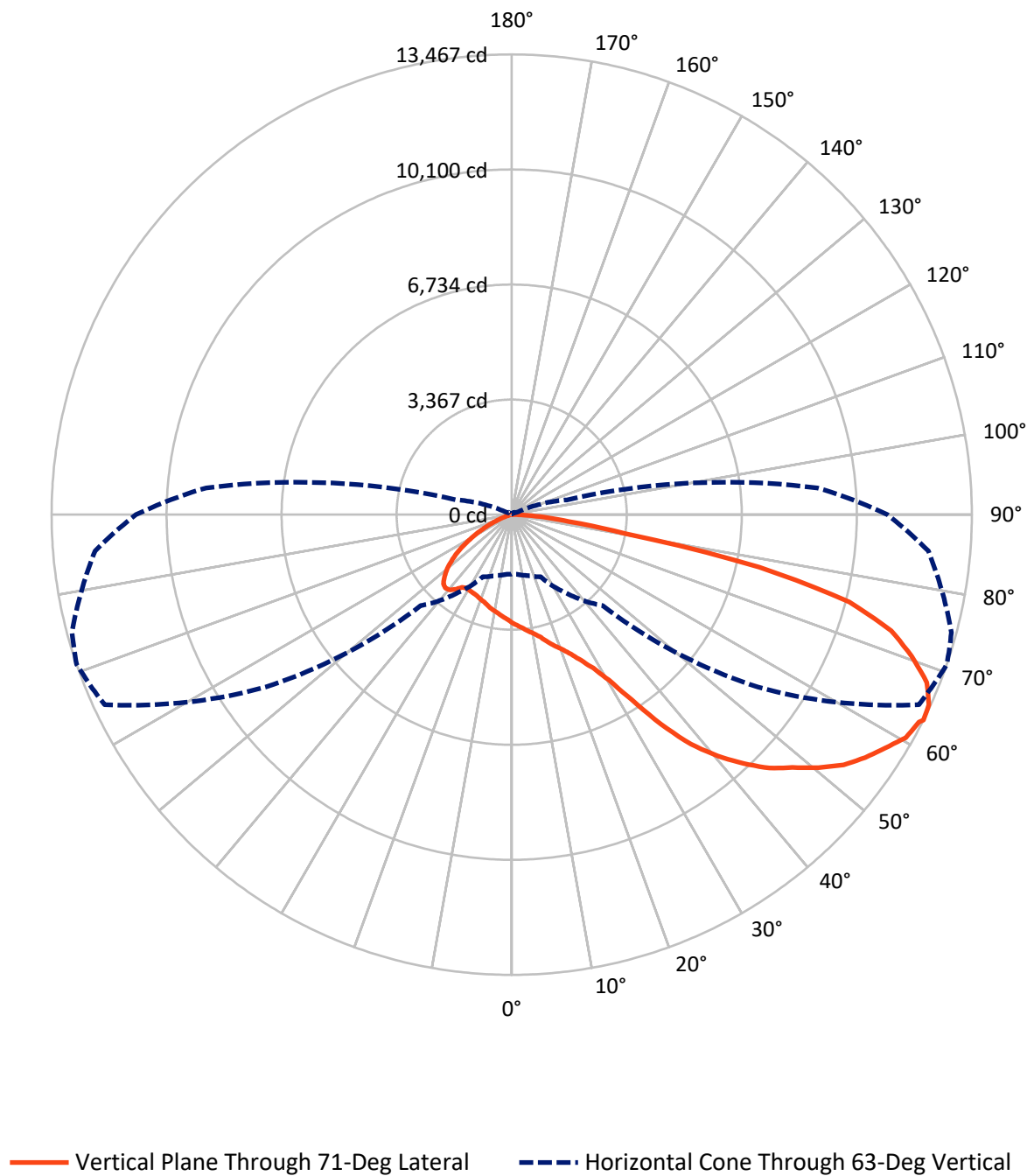


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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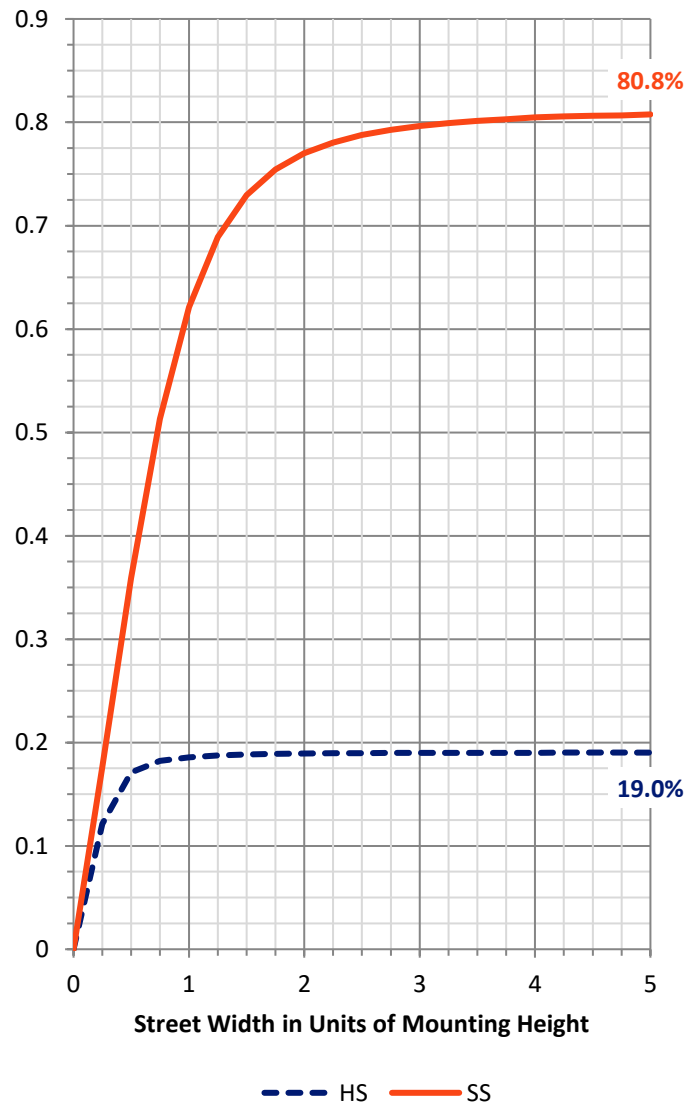
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3555.0	0.0	3555.0
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	14916.0	0.0	14916.0
	% Fixture	80.8	0.0	80.8
Total	Lumens	18471.0	0.0	18471.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.3	1.6
10°-20°	908.1	4.9
20°-30°	1527.1	8.3
30°-40°	2333.9	12.6
40°-50°	3251.2	17.6
50°-60°	3765.5	20.4
60°-70°	3729.1	20.2
70°-80°	2311.6	12.5
80°-90°	342.3	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°	18471.0	100.0
0°-180°	18471.0	100.0

Coefficient of Utilization



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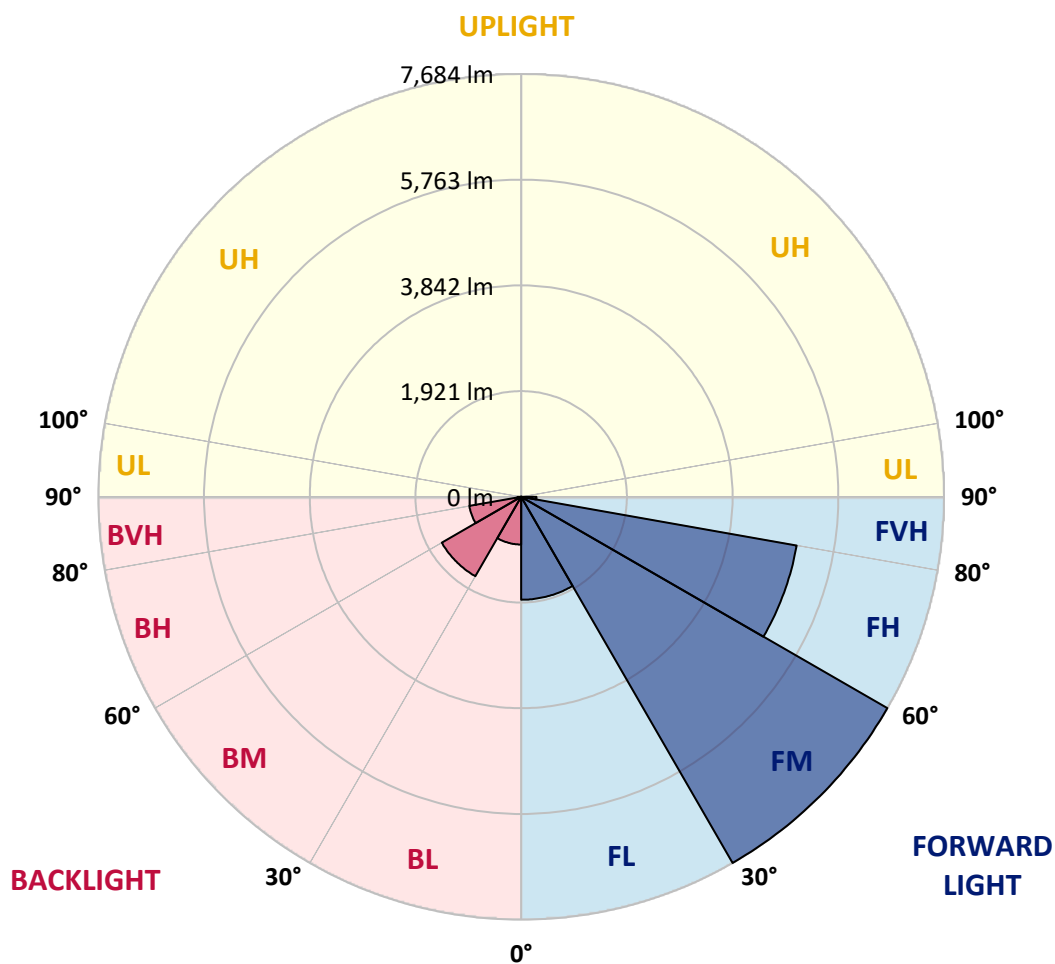
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1870.5	10.1			
FM	(30°-60°)	7684.1	41.6			
FH	(60°-80°)	5084.2	27.5			G3/7500
FVH	(80°-90°)	277.2	1.5			G3/500
BL	(0°-30°)	866.9	4.7	B2/1000		
BM	(30°-60°)	1666.4	9.0	B2/2500		
BH	(60°-80°)	956.6	5.2	B2/1000		G2/1000
BVH	(80°-90°)	65.0	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7
2.5°	3496.2	3462.8	3461.9	3419.7	3388.4	3370.7	3322.7	3280.5	3244.3	3240.4	3175.7
5°	3686.3	3678.5	3667.7	3602.0	3572.6	3533.4	3480.5	3399.1	3333.5	3316.8	3213.9
7.5°	3901.0	3895.1	3873.5	3814.7	3740.2	3694.2	3591.2	3509.9	3440.3	3405.0	3265.8
10°	4024.5	4023.5	4021.5	3972.5	3914.7	3847.1	3737.3	3617.7	3537.3	3500.1	3299.2
12.5°	4220.5	4194.0	4185.2	4125.4	4051.9	4002.9	3902.0	3773.6	3664.8	3599.1	3374.6
15°	4378.3	4379.3	4362.6	4308.7	4253.8	4175.4	4090.1	3961.7	3842.2	3792.2	3504.0
17.5°	4574.3	4556.7	4537.1	4480.2	4422.4	4340.1	4287.1	4131.3	4033.3	3923.5	3617.7
20°	4698.8	4668.4	4646.9	4610.6	4587.1	4521.4	4473.4	4335.2	4200.9	4106.8	3745.1
22.5°	4785.1	4816.4	4807.6	4748.8	4757.6	4738.0	4677.2	4584.1	4433.2	4278.3	3892.1
25°	4838.0	4831.1	4882.1	4920.3	4987.0	4983.0	4938.0	4856.6	4722.3	4555.7	4111.7
27.5°	4853.7	4853.7	4936.0	5043.8	5200.6	5234.9	5240.8	5235.9	5086.9	4936.0	4399.9
30°	4877.2	4903.7	4983.0	5117.3	5344.7	5481.0	5545.7	5654.4	5617.2	5485.9	4870.3
32.5°	4784.1	4787.0	4902.7	5161.4	5492.7	5776.0	5903.4	6288.6	6452.3	6513.1	5824.0
35°	4484.2	4514.5	4725.3	5082.0	5561.3	6029.8	6375.8	7171.7	7532.4	7540.2	6736.5
37.5°	4276.4	4305.8	4532.2	4967.4	5615.2	6285.7	6915.9	8163.6	8528.2	8438.1	7523.6
40°	4049.0	4098.0	4338.1	4812.5	5607.4	6536.6	7493.2	9041.8	9284.9	9166.3	8167.5
42.5°	3827.5	3835.3	4071.5	4597.9	5567.2	6740.4	8057.8	9690.7	9959.2	9806.3	8798.7
45°	3558.9	3594.2	3827.5	4312.6	5433.9	6865.9	8554.7	10402.3	10580.6	10410.1	9326.1
47.5°	3249.2	3294.3	3594.2	4049.0	5137.9	6884.5	9001.6	11042.3	11059.9	10924.7	9880.8
50°	2509.2	2537.6	3154.1	3789.2	4784.1	6810.0	9428.0	11521.6	11636.3	11459.8	10354.2
52.5°	2272.0	2295.5	2468.0	3451.1	4310.7	6561.1	9726.0	12072.4	12165.5	12010.7	10816.9
55°	2177.9	2188.7	2249.4	2797.3	3913.7	6119.0	9914.1	12484.1	12550.7	12358.6	11200.1
57.5°	2013.2	2023.0	2152.4	2385.7	3580.5	5387.8	9890.6	12889.9	12885.0	12670.3	11597.1
60°	1888.7	1909.3	2019.1	2193.6	3178.6	4507.7	9568.2	13200.6	13248.6	13051.6	11886.2
62.5°	1771.1	1779.0	1872.1	2040.7	2852.2	3865.7	8961.4	13172.1	13375.0	13229.0	12249.8
63°	1737.8	1752.5	1844.6	2008.3	2805.2	3764.7	8797.8	13149.6	13467.2	13324.1	12241.0
65°	1634.9	1636.8	1727.0	1881.9	2580.7	3450.1	8253.8	12851.6	13419.1	13332.9	12392.9
67.5°	1438.9	1453.6	1533.9	1684.9	2206.3	3050.2	6848.3	12653.6	13107.5	13152.5	12145.0
70°	1221.3	1230.1	1329.1	1477.1	1854.4	2587.6	5122.2	11963.6	12417.4	12473.3	11493.2
72.5°	957.6	962.5	1070.3	1242.8	1517.3	2136.7	3534.4	10761.0	11612.7	11612.7	10378.7
75°	300.9	355.8	749.8	1001.7	1226.2	1653.5	2322.0	8348.9	10207.2	10461.1	8886.0
77.5°	98.0	105.9	237.2	528.3	772.4	1269.3	1541.8	4438.1	7414.8	8112.6	7009.0
80°	70.6	82.3	147.0	396.0	486.2	540.1	955.6	2419.0	3369.7	4416.5	4681.2
82.5°	36.3	47.0	103.9	251.9	276.4	272.5	424.4	1143.8	1682.9	2032.8	2428.8
85°	16.7	20.6	45.1	88.2	76.5	71.6	150.0	598.9	948.8	1121.3	1211.5
87.5°	3.9	5.9	16.7	31.4	19.6	15.7	17.6	190.1	346.0	431.3	446.0
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°	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7
2.5°	3148.2	3163.9	3089.4	3053.1	2991.4	2971.8	2941.4	2905.1	2893.4	2922.8	2903.2
5°	3175.7	3154.1	3046.3	2948.3	2865.9	2801.2	2752.2	2690.5	2653.2	2662.1	2667.9
7.5°	3186.4	3138.4	2985.5	2865.0	2725.8	2642.5	2553.3	2466.0	2428.8	2434.7	2438.6
10°	3197.2	3124.7	2944.4	2766.9	2601.3	2472.9	2371.0	2255.3	2199.4	2201.4	2220.0
12.5°	3260.9	3119.8	2910.0	2695.4	2480.7	2321.0	2196.5	2068.1	1988.7	1994.6	2009.3
15°	3351.1	3161.9	2865.9	2589.5	2364.1	2182.8	2027.9	1885.8	1825.0	1833.8	1847.6
17.5°	3428.5	3209.0	2831.6	2477.8	2223.0	2027.9	1887.8	1766.2	1655.5	1672.1	1662.3
20°	3507.0	3275.6	2820.9	2383.7	2101.4	1877.0	1718.2	1620.2	1483.0	1445.7	1433.9
22.5°	3632.4	3350.1	2811.1	2297.5	1957.3	1744.7	1546.7	1402.6	1205.6	1137.9	1111.5
25°	3797.1	3457.0	2796.3	2220.0	1837.8	1586.9	1318.3	1059.5	913.5	827.2	787.1
27.5°	4019.6	3609.9	2817.9	2151.4	1717.2	1399.6	1000.7	769.4	639.1	564.6	522.4
30°	4392.0	3809.8	2822.8	2089.7	1570.2	1116.4	712.6	535.2	424.4	373.4	348.0
32.5°	5210.4	4416.5	2866.9	2019.1	1412.4	821.4	496.0	358.7	270.5	238.2	252.9
35°	6071.0	5161.4	3025.7	1919.1	1165.4	555.7	327.4	232.3	173.5	178.4	183.3
37.5°	6723.8	5739.7	3359.0	1796.6	876.2	380.3	197.0	158.8	152.9	166.6	192.1
40°	7365.8	6315.1	3655.9	1648.6	594.0	228.4	133.3	146.0	137.2	143.1	145.1
42.5°	7928.4	6773.8	3868.6	1430.0	367.6	134.3	116.6	135.3	125.5	122.5	107.8
45°	8472.4	7170.7	4000.0	1128.1	210.7	106.8	106.8	129.4	121.5	114.7	98.0
47.5°	8953.6	7614.7	3967.6	779.2	128.4	96.1	100.0	116.6	113.7	104.9	96.1
50°	9396.6	7936.2	3883.3	442.0	112.7	91.2	97.0	97.0	101.9	79.4	72.5
52.5°	9782.8	8221.4	3611.8	236.2	104.9	87.2	87.2	77.4	82.3	60.8	57.8
55°	10179.8	8520.4	3229.6	185.2	100.0	87.2	77.4	67.6	61.7	44.1	47.0
57.5°	10506.2	8740.9	2734.6	166.6	102.9	83.3	70.6	58.8	49.0	34.3	33.3
60°	10808.0	8923.2	2254.3	148.0	110.8	84.3	58.8	49.0	34.3	27.4	24.5
62.5°	10990.3	8964.4	1748.6	134.3	110.8	77.4	52.9	41.2	26.5	18.6	17.6
63°	10996.2	8977.1	1669.2	133.3	112.7	77.4	52.9	40.2	24.5	17.6	16.7
65°	11082.5	8711.5	1317.3	130.4	114.7	73.5	50.0	32.3	20.6	13.7	12.7
67.5°	10753.2	8199.9	866.4	128.4	114.7	71.6	44.1	27.4	17.6	10.8	8.8
70°	9882.8	7324.6	530.3	123.5	116.6	70.6	54.9	23.5	15.7	7.8	6.9
72.5°	8683.1	6469.9	304.8	109.8	114.7	57.8	31.4	20.6	13.7	5.9	4.9
75°	7350.1	5200.6	192.1	85.3	89.2	48.0	26.5	18.6	11.8	2.9	2.9
77.5°	5584.9	3742.2	164.7	65.7	52.9	42.1	22.5	14.7	7.8	1.0	1.0
80°	3944.1	2644.4	118.6	41.2	29.4	26.5	16.7	9.8	2.9	0.0	0.0
82.5°	2220.0	1444.7	64.7	14.7	8.8	9.8	7.8	3.9	0.0	0.0	0.0
85°	1046.8	564.6	32.3	9.8	4.9	3.9	1.0	0.0	0.0	0.0	0.0
87.5°	389.1	136.2	7.8	3.9	2.9	1.0	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)