

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: P287021

Luminaire Tested: **USSL-C02-D-U-T3-AP-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P287021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-7)
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-T3-AP-7030-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, GRAY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18953.1 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G4

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

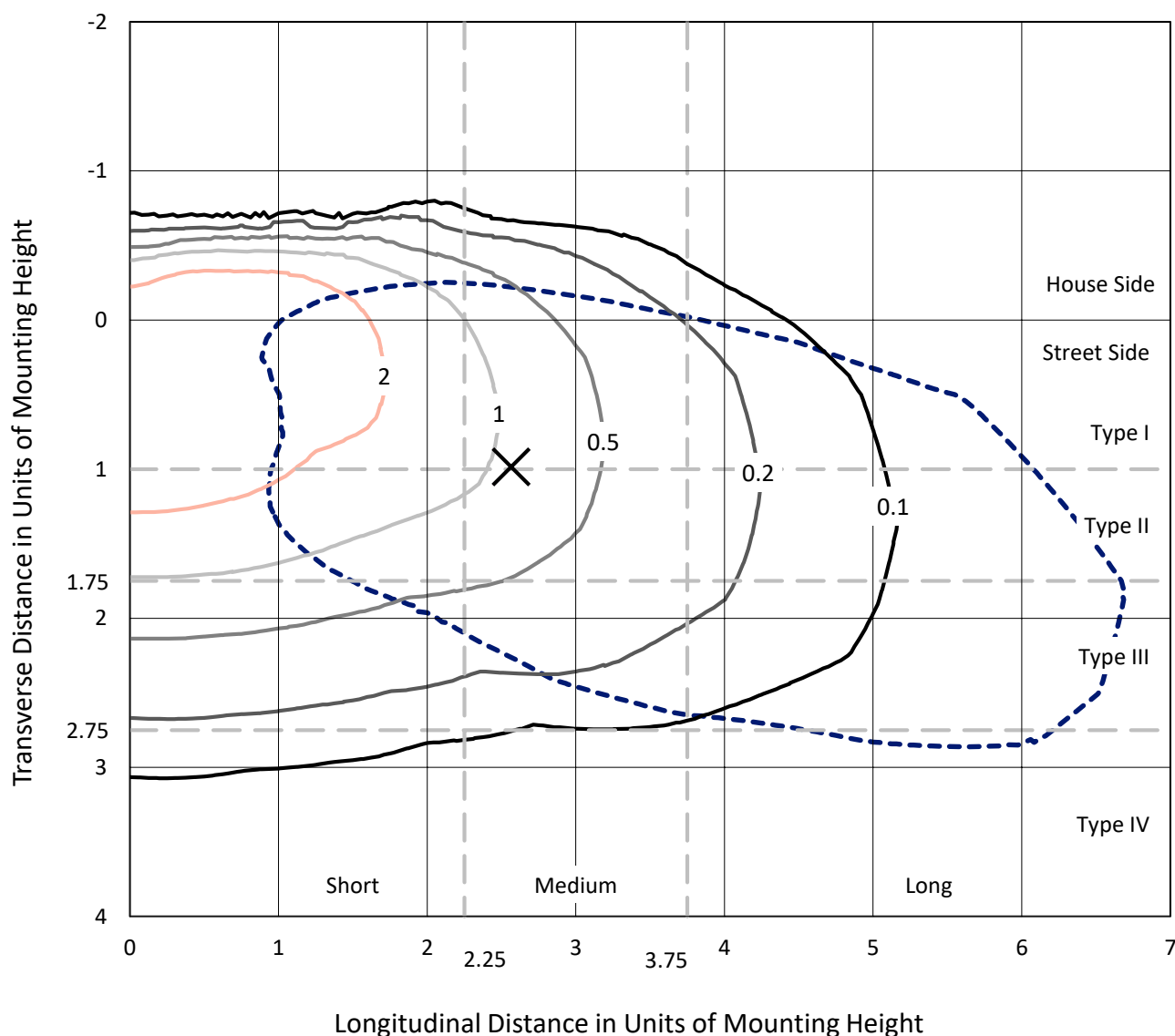


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

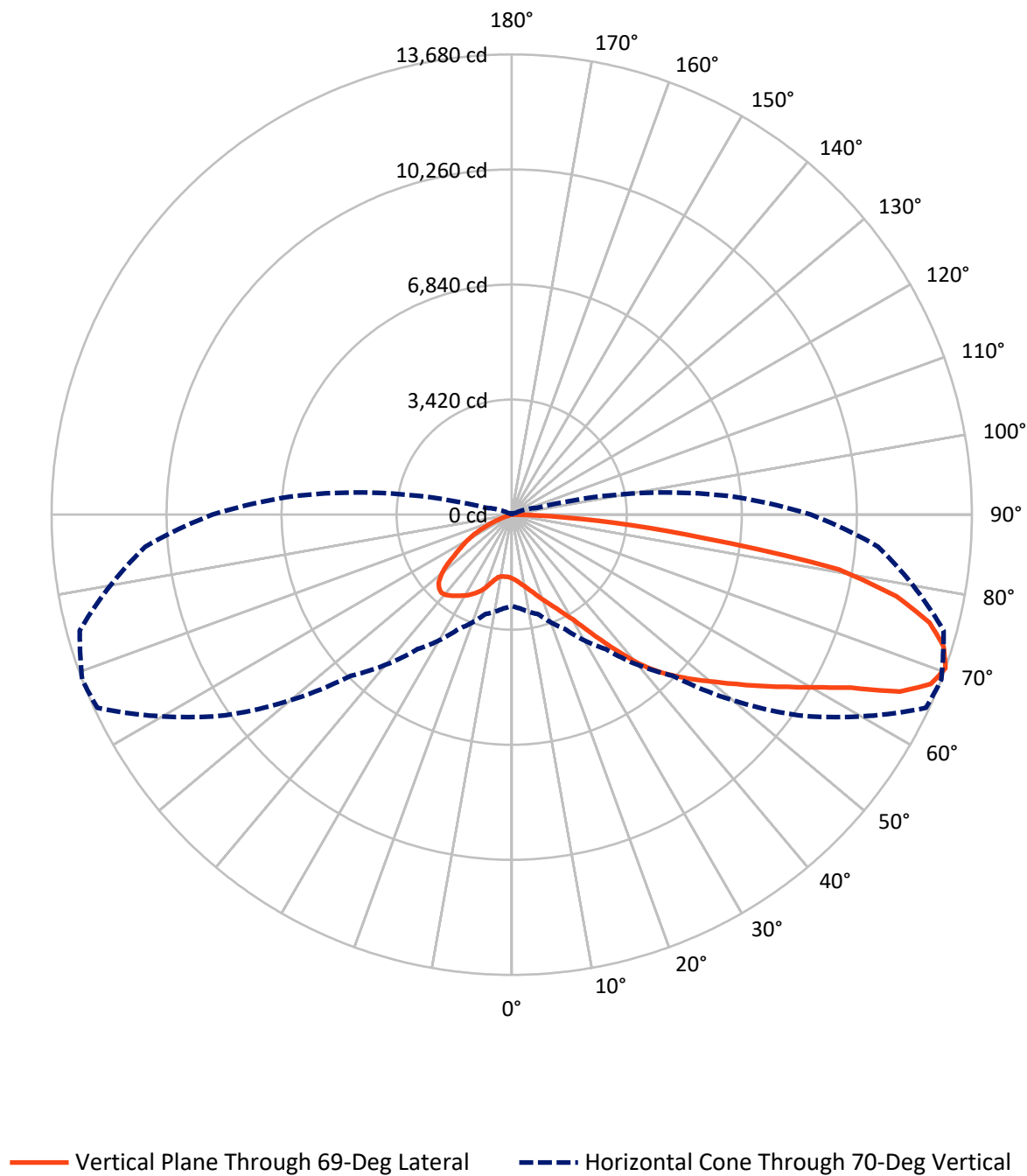


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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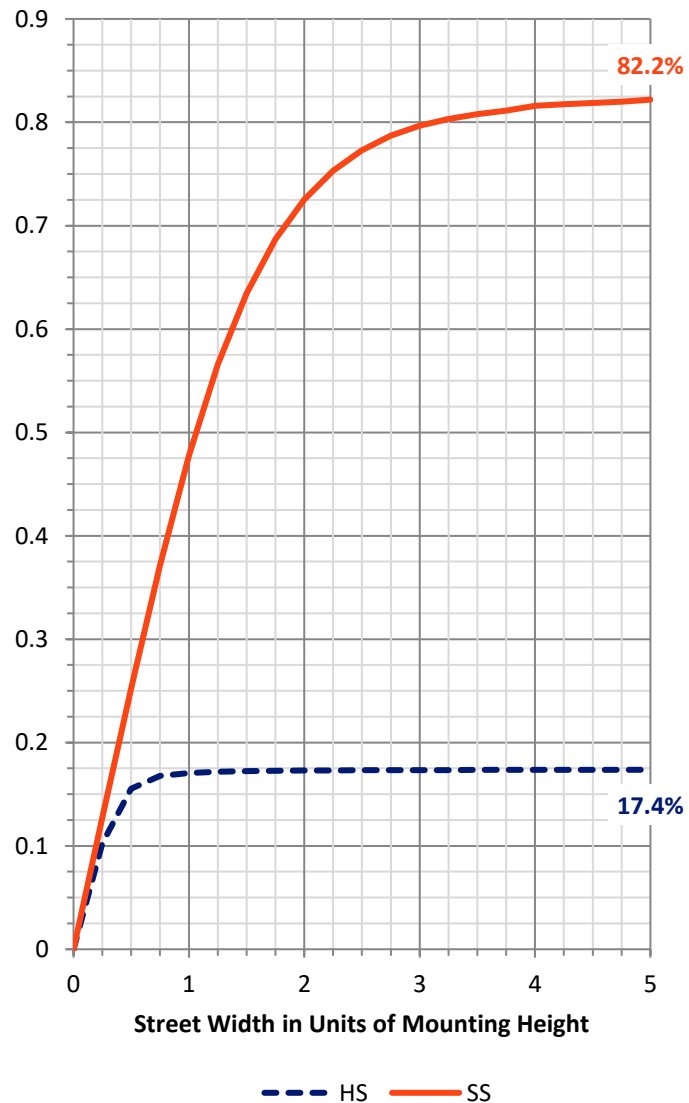
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3329.5	0.0	3329.5
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	15623.7	0.0	15623.7
	% Fixture	82.4	0.0	82.4
Total	Lumens	18953.1	0.0	18953.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.3	1.0
10°-20°	584.5	3.1
20°-30°	1072.1	5.7
30°-40°	1841.4	9.7
40°-50°	2877.7	15.2
50°-60°	3843.2	20.3
60°-70°	4497.6	23.7
70°-80°	3378.7	17.8
80°-90°	673.6	3.6
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°	18953.1	100.0
0°-180°	18953.1	100.0

Coefficient of Utilization



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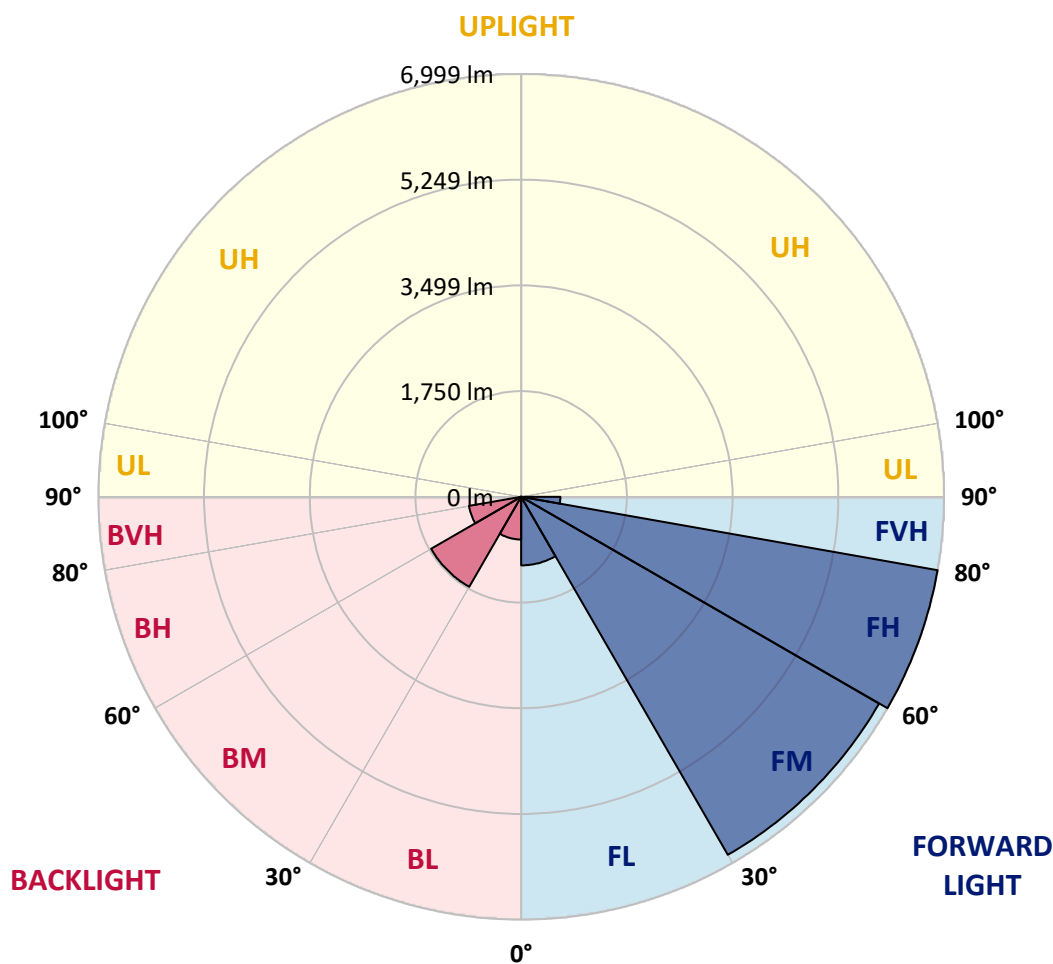
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1134.4	6.0			
FM	(30°-60°)	6841.8	36.1			
FH	(60°-80°)	6998.8	36.9			G3/7500
FVH	(80°-90°)	648.6	3.4			G4/750
BL	(0°-30°)	706.5	3.7	B2/1000		
BM	(30°-60°)	1720.6	9.1	B2/2500		
BH	(60°-80°)	877.4	4.6	B2/1000		G2/1000
BVH	(80°-90°)	25.0	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1
2.5°	2026.7	2040.9	2031.8	1999.2	1993.0	1991.0	1969.6	1951.2	1940.0	1937.0	1902.3
5°	2136.9	2148.1	2145.0	2108.2	2098.1	2074.6	2056.3	2008.3	2001.2	1991.0	1949.2
7.5°	2219.4	2221.6	2239.9	2209.3	2199.1	2170.5	2144.0	2100.1	2091.9	2075.7	2016.5
10°	2296.0	2310.3	2320.4	2281.6	2298.0	2262.4	2230.7	2200.1	2166.4	2165.4	2091.0
12.5°	2344.9	2353.1	2375.6	2344.9	2368.3	2367.4	2338.8	2304.1	2284.7	2267.4	2182.8
15°	2375.6	2384.7	2414.2	2437.8	2445.9	2459.2	2458.1	2431.6	2397.9	2391.9	2304.1
17.5°	2423.5	2431.6	2454.1	2491.8	2520.3	2549.9	2573.4	2575.5	2555.0	2547.9	2467.3
20°	2495.9	2494.9	2507.1	2528.5	2582.6	2647.8	2699.9	2719.3	2711.1	2710.1	2650.9
22.5°	2572.4	2568.3	2580.5	2590.7	2646.9	2756.0	2841.7	2890.7	2893.6	2887.6	2877.3
25°	2694.8	2674.3	2673.4	2684.6	2759.0	2885.5	2997.7	3081.3	3089.5	3105.8	3196.7
27.5°	3005.9	3002.8	2912.1	2834.5	2884.5	3028.3	3193.6	3303.7	3341.4	3403.7	3575.0
30°	3453.7	3436.3	3398.6	3218.1	3083.4	3215.0	3423.1	3593.4	3633.1	3854.5	4007.5
32.5°	3855.5	3836.1	3820.8	3653.6	3467.9	3438.3	3647.4	3938.2	4052.4	4395.1	4509.3
35°	4206.4	4195.2	4195.2	4082.9	3895.3	3767.8	3916.8	4305.3	4579.7	5059.1	5089.7
37.5°	4524.6	4533.8	4546.0	4422.6	4326.7	4285.9	4274.7	4760.2	5169.2	5673.1	5677.2
40°	4806.1	4826.6	4851.1	4761.3	4696.0	4731.7	4665.4	5309.0	5818.0	6364.7	6236.1
42.5°	5025.4	5053.0	5176.3	5051.9	5099.9	5172.3	5158.0	5744.6	6374.9	6870.6	6746.2
45°	5188.6	5210.0	5284.6	5320.2	5434.4	5579.3	5610.9	6191.3	6852.3	7331.6	7162.3
47.5°	5316.1	5300.9	5345.7	5528.3	5769.0	5931.2	6056.6	6703.3	7319.4	7757.9	7526.5
50°	5375.3	5373.3	5484.5	5708.8	6060.7	6292.2	6533.0	7371.4	7808.0	8164.9	7902.8
52.5°	5419.2	5454.9	5630.3	5892.4	6351.5	6667.6	6920.5	8018.0	8363.8	8612.7	8315.9
55°	5451.8	5521.1	5693.6	5993.4	6551.3	6990.9	7327.5	8605.5	8986.0	9036.0	8688.2
57.5°	5248.8	5322.3	5594.6	6023.0	6707.4	7270.4	7746.7	9279.7	9660.2	9630.7	9086.9
60°	4905.1	4964.3	5296.7	5938.3	6726.8	7581.5	8346.5	10029.4	10416.1	10411.9	9559.2
62.5°	4542.0	4595.0	4923.4	5658.8	6597.2	7750.8	9046.1	11154.5	11315.6	11155.6	9989.7
65°	4079.9	4133.9	4460.4	5189.7	6278.0	7741.6	9636.7	12358.0	12682.4	12219.4	10474.1
67.5°	3467.9	3554.6	3849.5	4524.6	5662.9	7446.9	10148.8	13265.8	13439.2	13021.1	10775.0
70°	2713.1	2797.8	3064.1	3753.5	4878.5	6772.7	10400.7	13591.2	13679.9	13293.4	10933.2
72.5°	1895.1	1965.5	2085.9	2682.5	3791.3	5732.3	10385.4	13434.1	13430.1	13037.4	10573.1
75°	675.3	770.1	1257.7	1620.7	2207.2	4215.5	9706.1	12787.5	12832.3	12476.4	9831.5
77.5°	175.4	183.6	387.6	782.3	1240.3	2038.9	7208.2	11572.6	11694.1	11280.9	8644.3
80°	128.6	134.6	186.6	544.7	709.9	897.6	3953.4	9482.7	9859.1	9643.9	6627.9
82.5°	90.7	97.9	136.7	359.0	469.2	596.7	1485.1	5149.8	5747.6	5712.9	3271.1
85°	57.1	62.2	85.6	128.6	178.5	239.6	418.2	2643.8	3033.4	3197.6	1430.0
87.5°	26.5	30.6	47.9	76.5	109.2	126.4	126.4	567.2	706.8	750.7	304.9
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°	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1
2.5°	1883.9	1896.2	1869.7	1854.3	1822.7	1807.4	1799.3	1783.9	1779.9	1787.0	1794.1
5°	1927.7	1930.8	1876.8	1830.9	1791.1	1746.2	1724.8	1679.9	1660.5	1667.6	1675.8
7.5°	1983.8	1978.7	1896.2	1827.8	1756.4	1694.1	1650.4	1578.9	1558.5	1553.4	1564.6
10°	2036.9	2011.4	1919.6	1826.7	1731.9	1646.2	1578.9	1503.5	1454.5	1448.4	1450.4
12.5°	2132.7	2083.8	1977.8	1847.2	1732.9	1639.1	1541.2	1430.0	1372.9	1354.6	1354.6
15°	2265.3	2183.8	2083.8	1933.9	1798.2	1664.6	1524.9	1380.0	1280.0	1236.2	1235.2
17.5°	2408.2	2338.8	2232.8	2054.2	1875.7	1686.0	1489.2	1301.5	1169.9	1107.7	1101.6
20°	2605.0	2565.3	2443.9	2199.1	1950.2	1689.1	1444.3	1204.6	1027.1	942.5	924.1
22.5°	2883.5	2829.4	2626.4	2312.3	1975.7	1663.6	1358.6	1048.6	830.2	719.0	707.9
25°	3171.1	3088.4	2804.0	2391.9	1995.0	1612.6	1235.2	832.3	596.7	492.6	479.4
27.5°	3489.3	3359.8	2955.8	2467.3	1971.6	1524.9	1016.9	579.3	387.6	321.3	308.0
30°	3858.6	3669.9	3119.1	2519.4	1946.1	1347.3	752.7	375.3	250.9	201.9	198.9
32.5°	4316.5	4055.4	3280.3	2544.8	1854.3	1115.9	486.5	239.6	155.1	130.6	126.4
35°	4863.2	4499.2	3496.5	2539.7	1704.4	807.9	304.9	140.8	103.0	98.9	98.9
37.5°	5381.4	4982.6	3755.5	2518.3	1466.7	515.1	174.5	91.8	89.8	103.0	109.2
40°	5905.7	5454.9	4035.0	2460.2	1165.8	310.0	96.9	81.6	85.6	101.0	107.0
42.5°	6361.6	5827.1	4305.3	2333.7	821.1	166.3	85.6	76.5	80.6	87.8	88.7
45°	6729.8	6172.9	4451.2	2156.3	486.5	105.0	81.6	73.5	70.4	73.5	74.5
47.5°	7125.6	6467.7	4569.5	1894.1	263.2	103.0	80.6	68.4	62.2	60.2	62.2
50°	7420.4	6780.8	4611.3	1506.5	138.7	98.9	76.5	62.2	56.1	60.2	61.2
52.5°	7704.9	7021.5	4591.9	1051.6	117.3	90.7	70.4	58.2	53.0	65.3	68.4
55°	8084.4	7318.4	4452.2	512.0	114.3	85.6	63.3	51.0	51.0	51.0	51.0
57.5°	8431.2	7522.3	4172.7	233.6	110.1	78.5	57.1	45.9	38.8	42.8	43.9
60°	8790.2	7837.5	3696.4	148.9	104.1	68.4	49.0	39.7	33.7	33.7	34.7
62.5°	9146.2	7904.8	3034.4	131.5	98.9	62.2	42.8	34.7	28.5	28.5	30.6
65°	9439.9	7792.6	2234.8	117.3	93.8	56.1	38.8	31.6	24.5	23.4	24.5
67.5°	9328.7	7244.9	1451.4	105.0	85.6	51.0	33.7	28.5	22.5	18.3	19.4
70°	8894.3	6419.7	784.3	101.0	77.5	47.0	30.6	25.5	20.4	15.3	15.3
72.5°	8194.5	5409.9	294.8	93.8	71.4	40.8	27.6	25.5	19.4	12.2	11.2
75°	7048.0	4085.1	139.7	84.7	60.2	36.7	27.6	26.5	19.4	8.2	7.1
77.5°	5653.7	2278.7	107.0	71.4	49.0	30.6	27.6	25.5	11.2	4.0	3.1
80°	3038.5	855.8	80.6	52.0	35.7	23.4	25.5	18.3	5.1	1.1	0.0
82.5°	1205.6	211.1	56.1	23.4	15.3	10.2	14.3	7.1	1.1	0.0	0.0
85°	304.0	82.6	34.7	12.2	8.2	5.1	2.0	0.0	0.0	0.0	0.0
87.5°	34.7	23.4	10.2	6.1	3.1	1.1	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)