

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: P286965

Luminaire Tested: **USSL-C02-D-U-T3-AP-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286965
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-6)
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-7050
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K LEDS AND TYPE III OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21636.8 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - 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

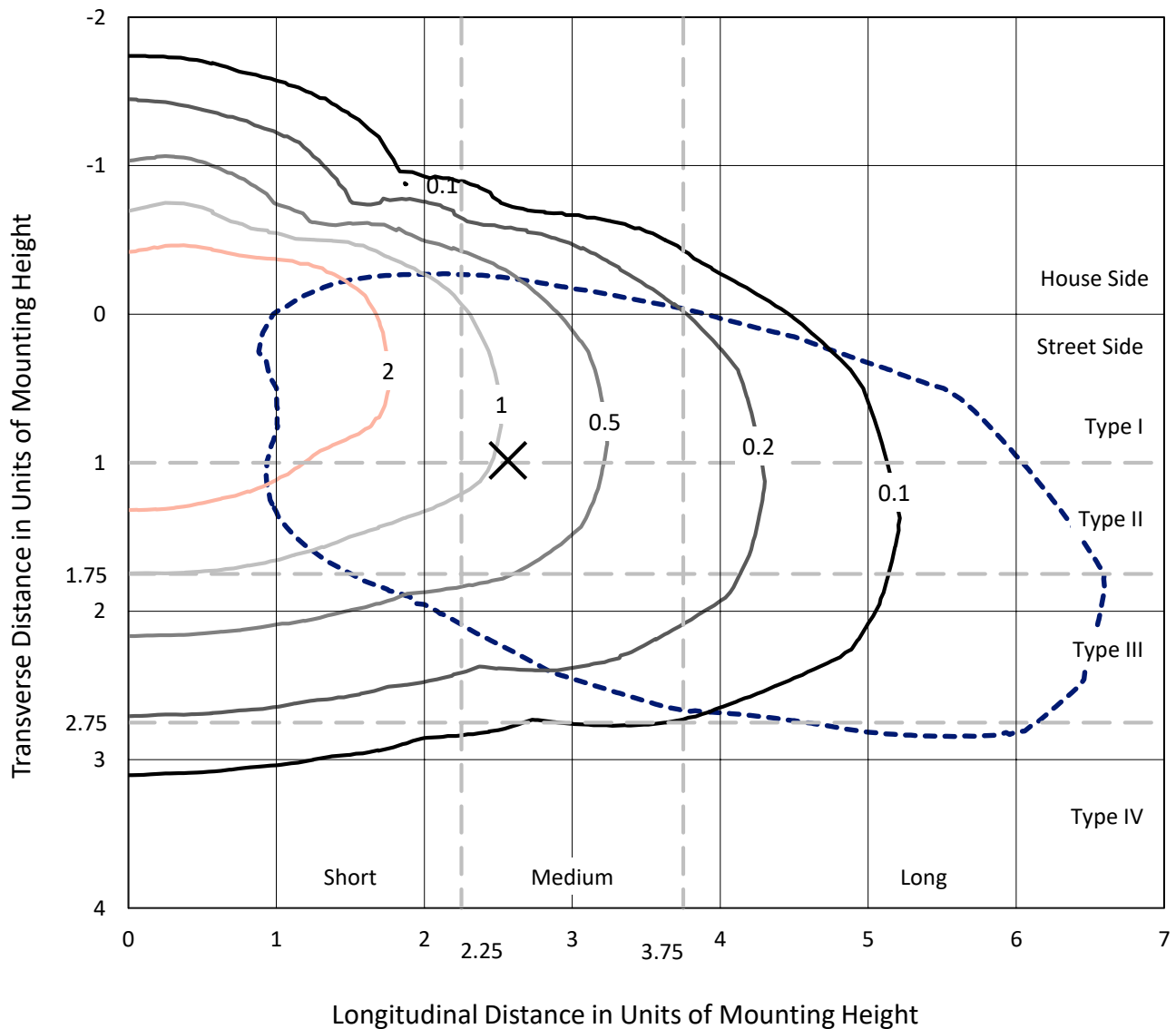


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

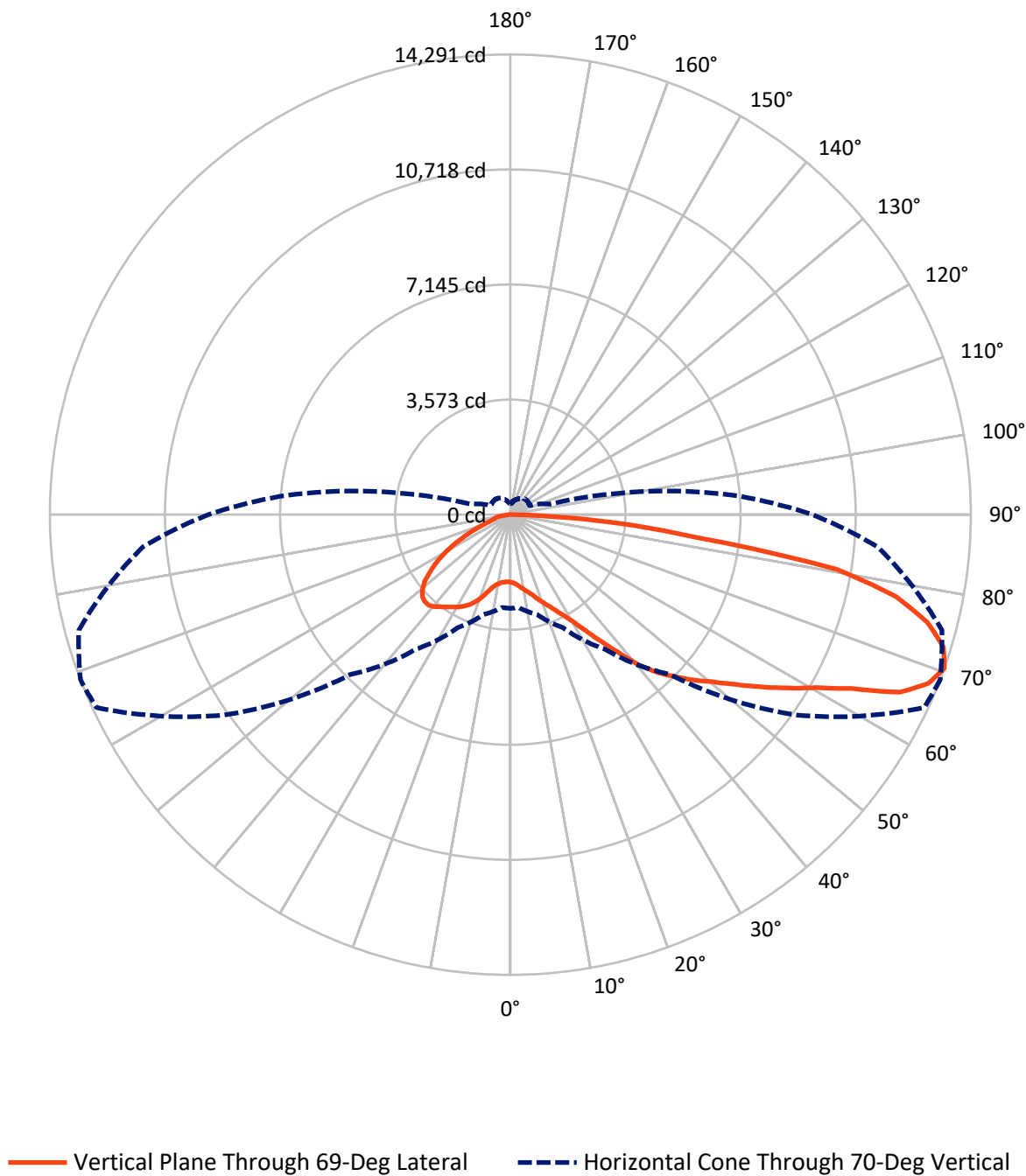


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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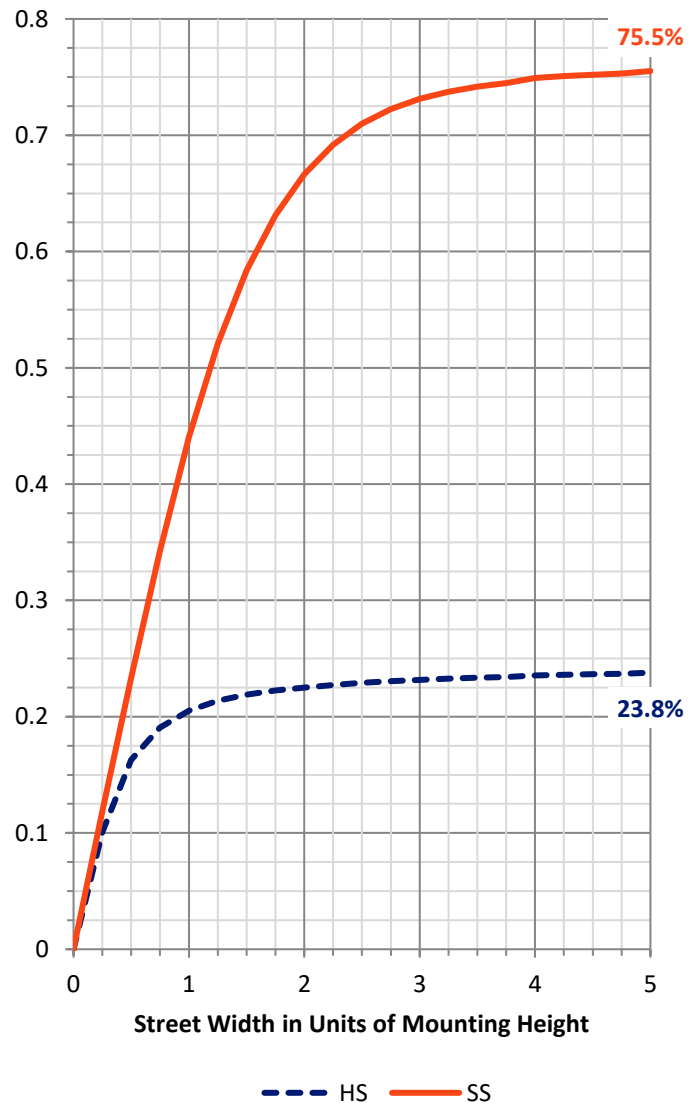
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5248.0	0.0	5248.0
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	16388.8	0.0	16388.8
	% Fixture	75.7	0.0	75.7
Total	Lumens	21636.8	0.0	21636.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.1	1.0
10°-20°	684.2	3.2
20°-30°	1286.8	5.9
30°-40°	2203.0	10.2
40°-50°	3364.7	15.6
50°-60°	4351.2	20.1
60°-70°	4949.4	22.9
70°-80°	3771.3	17.4
80°-90°	818.1	3.8
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°	21636.8	100.0
0°-180°	21636.8	100.0

Coefficient of Utilization



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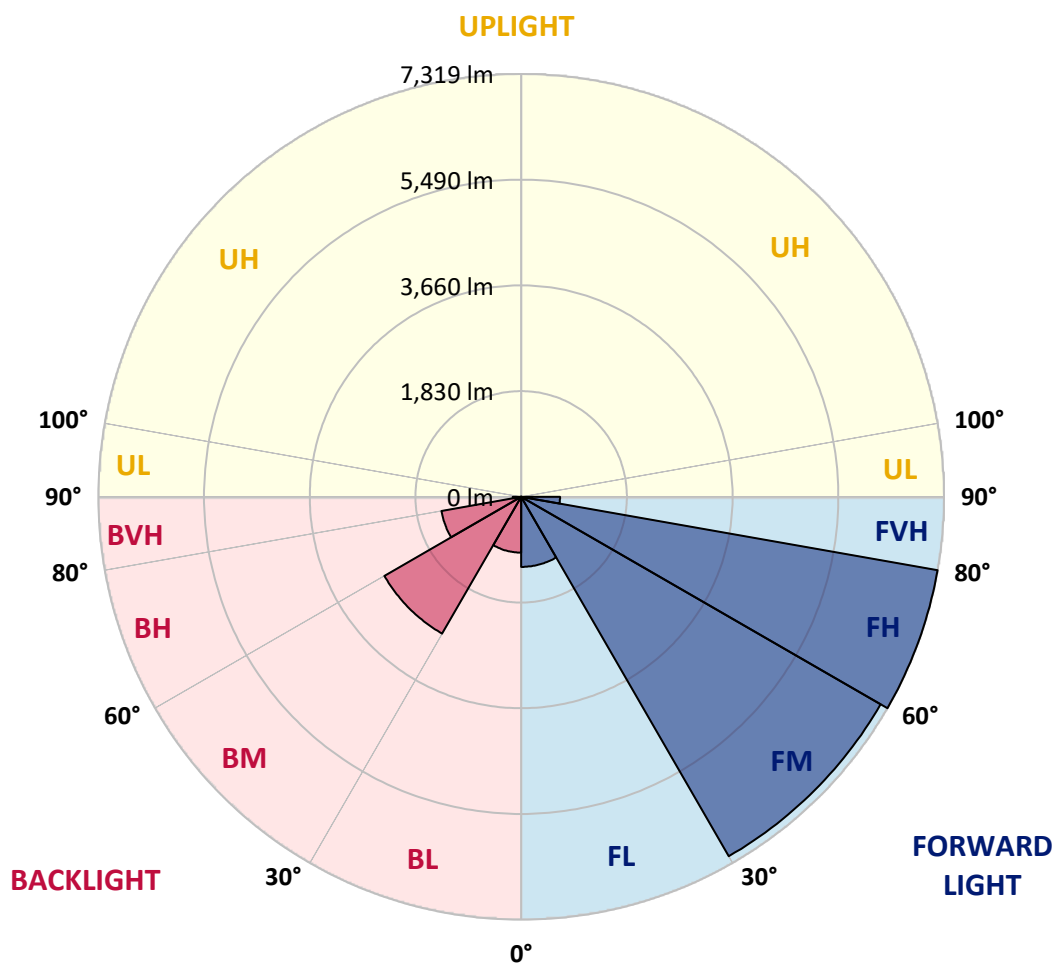
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1212.9	5.6			
FM	(30°-60°)	7184.0	33.2			
FH	(60°-80°)	7319.4	33.8			G3/7500
FVH	(80°-90°)	672.5	3.1			G4/750
BL	(0°-30°)	966.2	4.5	B2/1000		
BM	(30°-60°)	2734.8	12.6	B3/5000		
BH	(60°-80°)	1401.3	6.5	B3/2500		G3/2500
BVH	(80°-90°)	145.6	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7
2.5°	2229.7	2214.9	2215.9	2177.9	2178.9	2164.1	2155.6	2142.9	2121.8	2129.1	2094.3
5°	2337.5	2317.5	2323.8	2278.4	2276.2	2256.1	2234.9	2196.9	2187.3	2183.1	2152.4
7.5°	2408.4	2404.2	2401.0	2377.8	2375.7	2352.3	2332.3	2291.0	2275.2	2256.1	2217.0
10°	2477.2	2480.4	2483.6	2443.3	2468.7	2441.2	2419.0	2385.2	2364.0	2357.6	2297.3
12.5°	2512.1	2515.2	2532.2	2520.5	2535.4	2550.1	2528.0	2493.0	2471.9	2471.9	2402.1
15°	2542.7	2551.2	2579.8	2589.3	2615.7	2628.4	2645.3	2623.1	2591.3	2586.2	2528.0
17.5°	2594.5	2590.4	2615.7	2658.0	2688.8	2713.0	2760.6	2754.3	2752.1	2738.5	2696.1
20°	2664.4	2657.0	2682.4	2700.3	2747.9	2820.9	2885.5	2918.2	2916.1	2908.7	2871.7
22.5°	2740.6	2733.2	2734.2	2747.9	2812.4	2922.5	3021.9	3084.3	3085.4	3089.6	3123.4
25°	2870.6	2840.0	2830.5	2842.1	2919.3	3053.6	3181.6	3284.2	3304.3	3328.6	3436.5
27.5°	3185.8	3200.7	3071.6	2988.1	3052.5	3217.5	3367.7	3519.0	3550.8	3623.7	3839.5
30°	3675.5	3651.2	3585.6	3403.8	3256.8	3403.8	3615.3	3802.5	3862.8	4048.9	4243.5
32.5°	4045.7	4046.8	4015.1	3860.7	3657.6	3621.6	3860.7	4170.6	4290.1	4636.0	4810.5
35°	4421.3	4405.4	4432.9	4286.9	4107.1	3979.1	4128.3	4537.6	4811.5	5323.5	5417.6
37.5°	4773.5	4778.8	4785.1	4644.4	4558.7	4514.3	4497.4	5012.5	5406.0	5962.4	6021.6
40°	5034.7	5063.2	5083.4	5006.1	4975.5	4977.6	4904.6	5576.2	6121.0	6668.9	6601.2
42.5°	5243.1	5275.9	5421.8	5318.2	5362.6	5451.5	5438.8	6022.7	6700.6	7210.4	7132.2
45°	5417.6	5418.6	5520.2	5561.5	5720.1	5888.3	5902.1	6498.6	7180.8	7699.1	7548.9
47.5°	5538.2	5517.0	5596.4	5764.6	6056.5	6254.3	6385.5	7037.0	7676.9	8137.0	7975.2
50°	5575.2	5604.9	5737.0	5950.7	6339.9	6651.9	6928.0	7719.3	8160.3	8565.4	8321.1
52.5°	5644.0	5656.7	5841.7	6121.0	6627.7	7043.4	7318.3	8423.7	8754.7	9004.3	8744.2
55°	5702.2	5738.1	5914.8	6210.9	6809.5	7360.7	7731.9	9065.6	9439.0	9487.7	9187.3
57.5°	5493.8	5528.7	5842.8	6236.2	6960.8	7616.7	8185.6	9689.7	10154.1	10071.6	9574.4
60°	5108.7	5149.0	5525.5	6166.5	6985.2	7902.2	8780.1	10519.0	10909.2	10809.8	10010.2
62.5°	4759.7	4761.8	5169.0	5867.2	6869.8	8097.8	9502.5	11591.5	11885.5	11711.0	10493.5
65°	4299.6	4295.4	4663.5	5385.9	6544.0	8037.5	10066.3	12900.9	13290.2	12795.2	10955.8
67.5°	3677.6	3665.0	4037.3	4706.8	5939.0	7727.6	10544.3	13791.5	13992.5	13586.3	11324.9
70°	2907.6	2894.0	3209.1	3873.3	5096.1	7020.0	10845.9	14172.3	14290.7	13866.7	11441.3
72.5°	2039.2	2030.8	2219.1	2744.7	3898.7	5906.3	10781.3	13981.9	14057.0	13573.6	11099.7
75°	1206.8	1203.7	1379.2	1679.6	2304.8	4401.1	10052.5	13283.8	13373.7	12934.8	10260.9
77.5°	465.4	431.6	673.8	817.6	1310.5	2061.5	7689.6	12030.4	12238.8	11826.3	9040.3
80°	152.3	157.6	472.8	577.5	760.5	923.4	4114.5	9763.8	10257.7	9993.3	6847.7
82.5°	111.1	114.3	294.0	390.3	503.5	626.2	1557.0	5307.7	5828.0	5738.1	3361.4
85°	73.0	73.0	100.5	138.5	188.2	250.7	436.8	2693.9	3302.2	3203.9	1456.5
87.5°	39.1	40.2	58.2	83.5	113.2	132.2	139.6	551.0	752.0	654.7	290.8
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°	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7
2.5°	2083.7	2104.9	2089.0	2076.3	2055.1	2043.5	2046.7	2036.1	2026.5	2050.9	2039.2
5°	2141.8	2155.6	2114.4	2090.0	2056.2	2027.6	2025.6	2002.3	1990.6	2000.1	2004.4
7.5°	2191.6	2202.2	2147.1	2103.8	2070.0	2036.1	2012.9	1972.7	1956.8	1973.7	1980.0
10°	2277.3	2264.6	2197.9	2149.3	2099.6	2058.3	2019.2	1981.1	1952.5	1953.6	1955.7
12.5°	2374.6	2339.6	2280.5	2211.7	2157.7	2116.5	2062.6	1998.0	1952.5	1951.5	1958.9
15°	2509.9	2467.7	2415.8	2334.3	2274.1	2214.9	2128.2	2016.0	1944.1	1918.7	1908.1
17.5°	2679.2	2623.1	2605.1	2511.0	2411.6	2298.4	2159.9	2023.5	1896.5	1848.9	1851.0
20°	2882.3	2864.3	2841.1	2686.6	2543.8	2353.4	2174.7	1989.5	1819.3	1735.7	1727.2
22.5°	3167.8	3159.3	3049.4	2837.9	2618.9	2389.3	2162.0	1917.7	1712.5	1608.8	1587.6
25°	3497.9	3429.1	3225.0	2965.8	2678.2	2398.9	2111.2	1813.0	1586.6	1457.6	1451.2
27.5°	3825.7	3704.1	3403.8	3046.3	2683.5	2361.9	2004.4	1670.1	1461.8	1341.2	1325.3
30°	4207.6	4043.6	3584.6	3104.3	2671.8	2268.8	1855.2	1550.6	1379.2	1259.7	1241.8
32.5°	4690.0	4411.7	3763.4	3130.8	2593.5	2144.0	1696.6	1498.8	1318.9	1181.5	1160.3
35°	5267.4	4897.3	4005.6	3129.8	2490.9	1950.4	1616.1	1469.1	1276.6	1107.4	1075.7
37.5°	5820.7	5440.9	4279.6	3117.1	2327.0	1748.4	1560.2	1421.5	1248.1	1092.7	1074.6
40°	6330.5	5887.2	4611.6	3093.8	2134.4	1625.7	1497.7	1347.6	1214.2	1106.3	1086.3
42.5°	6805.3	6308.2	4908.8	3035.7	1923.0	1539.0	1413.1	1297.8	1178.3	1041.9	1011.1
45°	7234.8	6663.6	5114.0	2898.1	1691.3	1442.7	1317.9	1231.2	1112.7	973.1	948.8
47.5°	7593.3	6987.3	5258.9	2713.0	1504.1	1341.2	1207.9	1137.1	1032.3	904.3	872.6
50°	7907.5	7307.8	5357.4	2397.8	1340.1	1237.5	1099.0	1021.7	927.6	836.7	814.4
52.5°	8214.2	7632.4	5471.5	1976.8	1185.7	1116.9	974.2	888.5	817.6	775.3	760.5
55°	8619.3	8046.0	5471.5	1449.1	1044.0	1020.7	866.3	753.1	703.3	673.8	681.2
57.5°	8985.3	8299.9	5241.0	1078.9	954.0	921.3	748.8	637.8	585.0	592.3	614.5
60°	9390.4	8542.1	4597.8	892.8	877.9	784.9	638.9	560.6	533.1	506.6	503.5
62.5°	9668.6	8577.0	3771.8	788.0	801.7	692.8	597.6	516.2	485.5	447.4	438.9
65°	9979.5	8389.7	2837.9	739.4	734.1	657.9	589.2	509.8	467.5	405.1	394.5
67.5°	9865.3	7836.6	2015.0	684.4	686.5	662.1	602.9	508.8	458.0	390.3	382.9
70°	9369.2	6940.8	1262.9	658.9	677.0	670.6	627.2	535.2	454.8	354.3	343.7
72.5°	8670.1	5787.8	706.5	611.4	671.7	675.9	656.8	559.5	416.8	289.8	283.4
75°	7523.5	4417.0	505.6	565.9	646.2	674.8	644.1	538.4	381.9	272.9	264.4
77.5°	5881.9	2589.3	445.3	521.5	598.6	602.9	638.9	559.5	396.6	277.2	267.6
80°	3180.5	1071.5	374.5	459.0	491.8	570.1	619.8	522.5	367.0	223.2	209.4
82.5°	1290.4	302.5	217.9	291.9	398.7	470.7	552.1	462.2	336.3	186.1	175.6
85°	330.1	103.7	101.5	149.1	239.0	352.2	448.4	395.6	274.0	82.5	5.3
87.5°	41.2	33.8	40.2	82.5	155.5	252.8	329.0	285.5	194.6	1.1	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)