

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1209598

Luminaire Tested: UPW-SA2-130-750-U-T3R

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-130-750-U-T3R
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16556 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

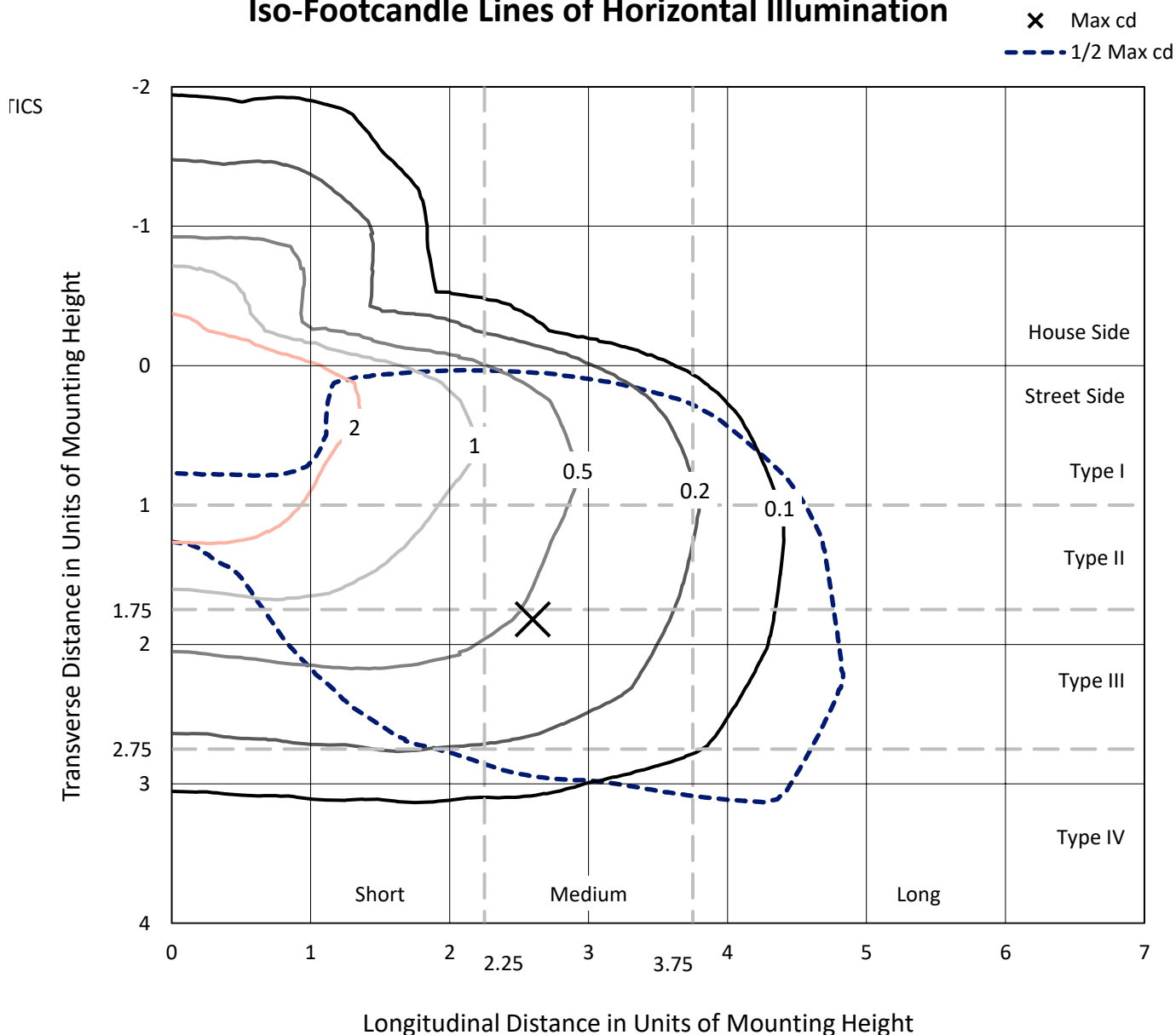
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

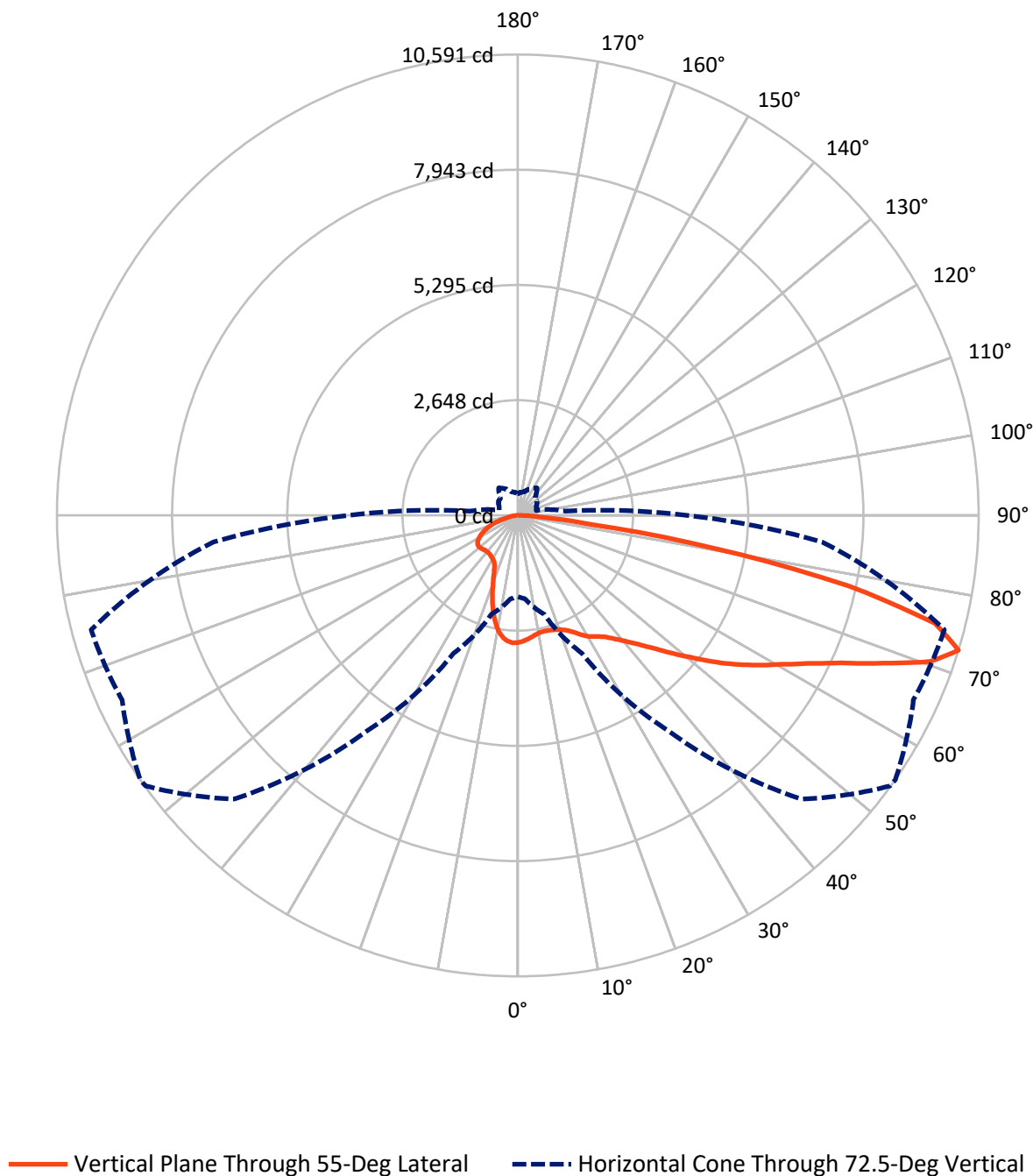


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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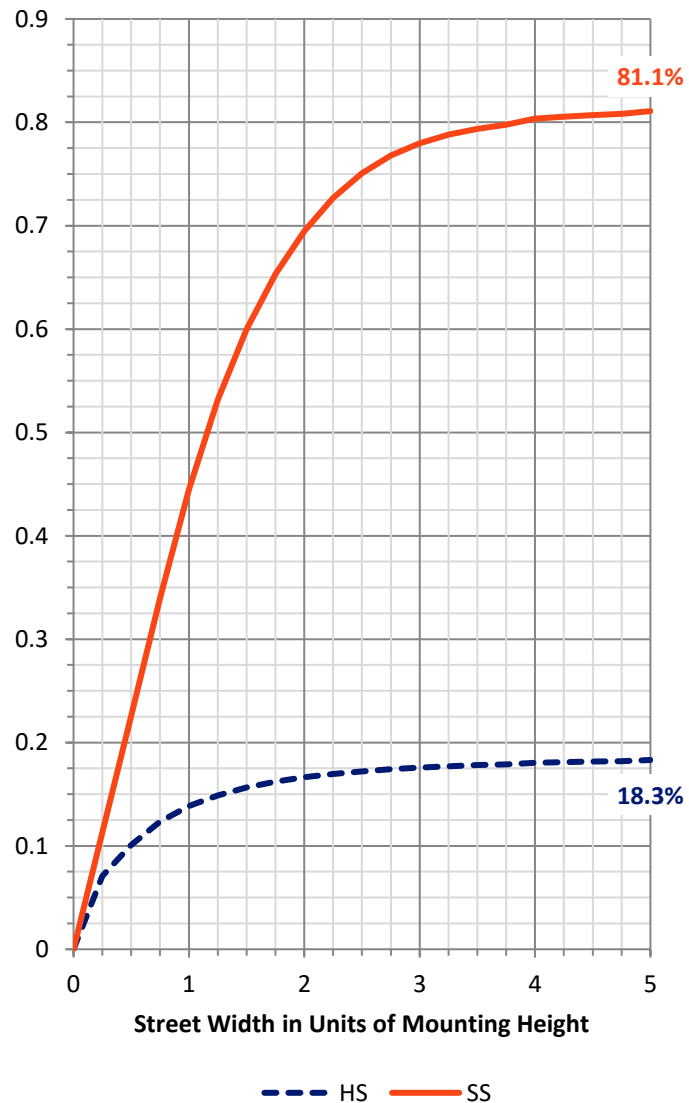
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3077.2	0.0	3077.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	13478.8	0.0	13478.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	16556.0	0.0	16556.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.2	1.6
10°-20°	703.5	4.2
20°-30°	1159.9	7.0
30°-40°	1715.8	10.4
40°-50°	2394.8	14.5
50°-60°	3118.2	18.8
60°-70°	3832.1	23.1
70°-80°	3003.9	18.1
80°-90°	363.5	2.2
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°	16556.0	100.0
0°-180°	16556.0	100.0

Coefficient of Utilization



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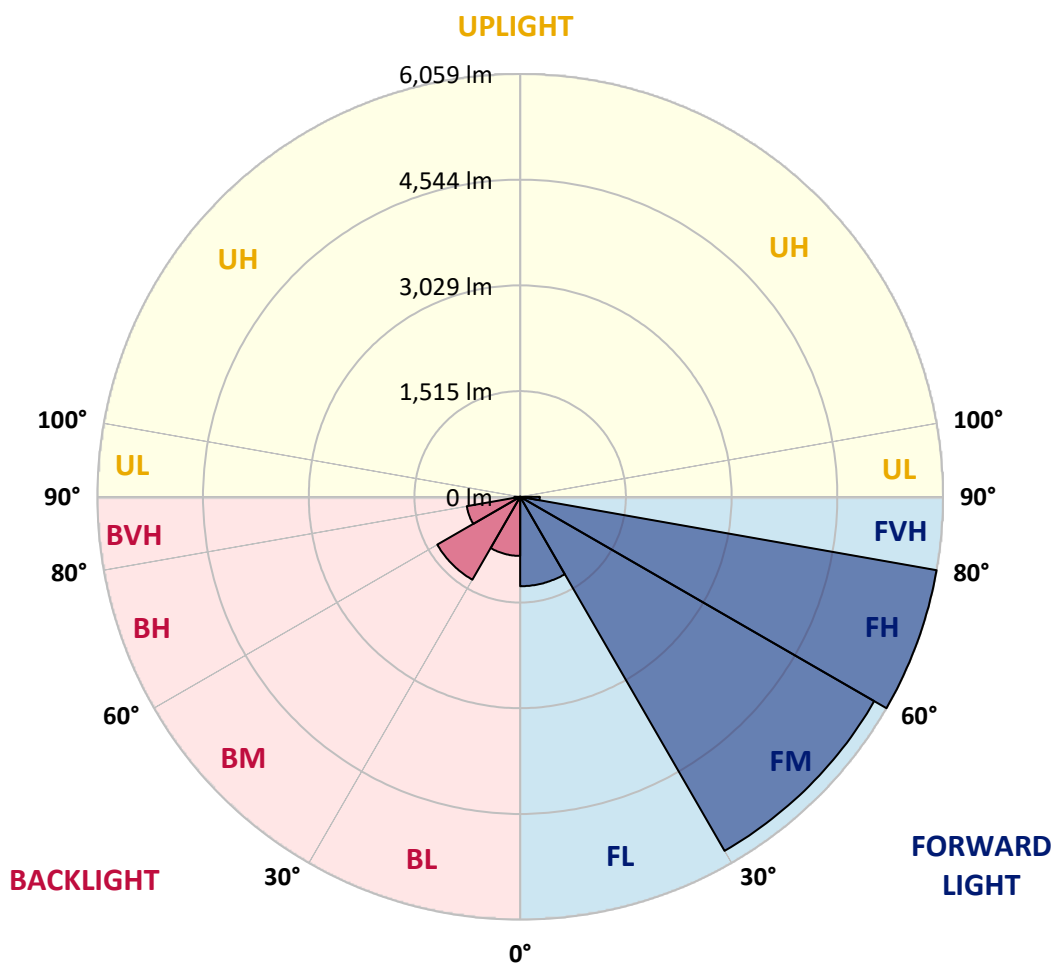
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1281.0	7.7			
FM	(30°-60°)	5857.8	35.4			
FH	(60°-80°)	6058.9	36.6			G3/7500
FVH	(80°-90°)	281.1	1.7			G3/500
BL	(0°-30°)	846.7	5.1	B2/1000		
BM	(30°-60°)	1370.9	8.3	B2/2500		
BH	(60°-80°)	777.1	4.7	B2/1000		G2/1000
BVH	(80°-90°)	82.5	0.5			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1
2.5°	2825.1	2818.3	2826.7	2838.5	2851.3	2868.7	2878.7	2883.2	2900.6	2907.3	2921.8
5°	2694.2	2690.9	2704.8	2725.0	2753.5	2793.7	2826.2	2832.3	2878.2	2910.6	2940.3
7.5°	2599.1	2599.1	2615.4	2639.4	2671.3	2725.5	2771.4	2779.8	2857.5	2927.4	2982.2
10°	2523.7	2526.4	2545.5	2574.0	2611.4	2669.0	2730.0	2739.5	2851.9	2966.5	3053.8
12.5°	2473.3	2480.0	2497.4	2523.1	2569.5	2639.4	2716.6	2729.4	2863.6	3022.5	3139.9
15°	2505.2	2516.4	2518.1	2528.7	2554.4	2630.5	2724.4	2737.8	2888.8	3079.5	3237.7
17.5°	2645.0	2648.9	2631.6	2609.2	2596.9	2645.6	2747.9	2761.9	2919.0	3136.0	3331.7
20°	2857.5	2855.3	2817.8	2757.4	2694.8	2702.6	2786.5	2801.0	2959.8	3185.7	3425.6
22.5°	3125.9	3118.1	3060.5	2949.2	2842.4	2797.7	2854.1	2866.4	3021.3	3256.8	3526.3
25°	3451.4	3434.0	3358.0	3208.7	3051.5	2936.3	2955.9	2967.7	3110.8	3336.2	3618.6
27.5°	3794.7	3777.4	3680.6	3500.0	3290.9	3111.4	3096.3	3106.3	3212.6	3394.9	3686.8
30°	4153.7	4135.3	4046.9	3844.5	3544.7	3292.5	3227.1	3231.0	3284.2	3426.8	3742.7
32.5°	4514.4	4497.1	4398.1	4163.2	3820.4	3487.1	3321.6	3316.6	3327.2	3459.7	3805.9
35°	4880.1	4886.8	4771.1	4511.0	4125.7	3703.6	3433.5	3422.8	3399.4	3527.4	3895.4
37.5°	5271.5	5267.1	5117.2	4845.4	4445.1	3938.4	3594.0	3592.3	3511.2	3655.5	4035.7
40°	5533.2	5536.0	5444.9	5187.7	4767.7	4198.4	3799.7	3795.8	3689.6	3847.3	4219.7
42.5°	5635.6	5654.0	5677.5	5514.2	5105.5	4499.9	4045.2	4039.6	3938.4	4122.4	4436.1
45°	5642.8	5679.8	5825.1	5804.5	5447.7	4844.9	4358.9	4343.3	4270.6	4488.1	4694.5
47.5°	5580.2	5618.2	5859.8	5977.2	5753.6	5208.9	4725.8	4713.5	4650.8	4945.5	4974.0
50°	5443.2	5479.6	5788.2	6061.7	6005.2	5559.0	5148.5	5116.1	5082.5	5474.0	5293.9
52.5°	5186.5	5256.4	5692.6	6081.8	6155.6	5869.9	5593.1	5571.8	5590.3	6031.5	5614.3
55°	4578.7	4657.0	5446.0	6065.0	6266.9	6131.0	6037.6	6036.5	6132.1	6616.4	5958.2
57.5°	4238.1	4293.5	4943.9	6036.5	6398.9	6390.5	6477.7	6488.4	6674.6	7253.3	6318.4
60°	4045.8	4103.9	4689.4	5930.8	6603.5	6726.0	6926.8	6948.0	7225.9	7958.5	6751.7
62.5°	3870.8	3934.5	4531.7	5715.5	6844.6	7205.8	7464.7	7483.7	7809.7	8683.2	7170.6
65°	3571.6	3643.7	4300.8	5574.1	7063.8	7831.5	8148.6	8161.5	8480.2	9442.6	7491.0
67.5°	3148.8	3214.8	3865.2	5261.5	7225.9	8591.5	9057.9	9065.1	9145.1	9978.9	7654.8
70°	2655.1	2680.2	3244.5	4616.2	7034.1	9302.2	10054.3	10056.0	9751.3	10322.2	7628.0
72.5°	1865.5	1924.8	2355.3	3494.4	6044.9	9215.6	10571.6	10590.6	10033.1	10148.9	7018.5
75°	1144.1	1206.7	1477.4	2117.7	3835.0	7247.7	9767.5	9899.4	9504.7	9048.9	5733.4
77.5°	765.0	788.5	964.1	1234.7	1737.4	4169.9	7509.4	7757.7	7895.8	6599.1	3666.6
80°	426.7	471.4	639.2	767.2	772.8	1656.9	4502.6	4560.8	4393.0	2627.7	1131.3
82.5°	225.9	250.5	426.7	450.7	421.6	554.7	1678.1	1679.8	1403.6	704.6	336.1
85°	175.0	195.7	292.5	275.1	215.3	246.0	553.6	583.8	477.6	288.5	109.6
87.5°	87.2	108.5	198.5	174.5	84.4	70.5	198.0	211.4	188.4	113.0	39.7
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°	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1
2.5°	2927.4	2932.4	2938.6	2931.9	2929.6	2920.7	2905.6	2902.2	2894.4	2895.0	2899.4
5°	2953.1	2961.5	2958.1	2932.4	2901.7	2858.6	2813.9	2775.8	2750.7	2749.0	2747.3
7.5°	3002.3	3007.9	2981.6	2908.4	2822.3	2722.7	2628.8	2546.6	2496.8	2484.5	2481.7
10°	3079.5	3078.4	3006.2	2858.6	2686.9	2509.1	2358.1	2244.1	2177.5	2157.9	2152.9
12.5°	3165.6	3152.7	3014.6	2768.0	2495.7	2249.1	2057.8	1930.9	1861.6	1839.2	1833.6
15°	3254.5	3222.6	2993.9	2632.7	2260.8	1968.9	1768.2	1650.7	1613.3	1601.0	1598.7
17.5°	3337.3	3275.8	2934.7	2449.3	1993.0	1689.9	1533.3	1486.3	1495.3	1511.5	1512.1
20°	3418.4	3311.6	2839.6	2217.8	1710.6	1460.1	1406.9	1441.6	1484.1	1517.1	1521.6
22.5°	3498.3	3336.7	2717.1	1950.5	1457.8	1330.9	1368.4	1431.5	1480.2	1516.0	1522.1
25°	3565.4	3342.9	2548.3	1665.3	1282.2	1282.2	1349.9	1409.7	1457.8	1493.1	1499.2
27.5°	3590.0	3301.5	2310.0	1401.3	1193.9	1259.9	1324.2	1373.9	1414.8	1452.2	1458.9
30°	3599.5	3224.9	2034.9	1189.4	1157.5	1235.8	1289.5	1332.0	1370.6	1405.8	1412.0
32.5°	3601.2	3132.6	1743.0	1069.2	1132.4	1210.7	1246.4	1283.9	1325.3	1339.3	1341.5
35°	3611.8	3023.6	1435.5	1007.7	1108.9	1187.2	1215.7	1242.5	1175.4	1180.5	1184.9
37.5°	3642.6	2915.6	1178.2	973.0	1093.8	1174.9	1209.0	1111.7	1059.1	1046.8	1045.1
40°	3700.2	2800.5	987.5	945.0	1088.2	1181.0	1165.9	1037.9	947.3	879.6	869.5
42.5°	3780.2	2676.3	865.6	926.6	1092.1	1210.7	1106.1	966.9	816.4	772.8	767.2
45°	3870.2	2546.0	799.7	913.7	1105.5	1233.6	1093.8	872.3	755.5	722.5	719.7
47.5°	3957.4	2386.6	765.5	908.1	1124.0	1215.1	1041.8	843.3	726.4	709.1	710.7
50°	4057.5	2242.9	744.8	902.0	1140.2	1203.4	983.1	828.2	715.2	736.5	758.8
52.5°	4142.0	2094.2	726.4	889.7	1146.4	1182.7	968.0	831.0	715.2	756.0	777.3
55°	4242.1	1981.8	705.1	864.0	1134.6	1124.0	957.3	847.7	723.6	697.9	700.1
57.5°	4371.2	1944.9	681.7	823.7	1095.5	1038.4	952.3	864.0	718.6	702.4	707.9
60°	4550.2	1984.0	672.2	771.1	1034.5	971.3	952.9	855.6	683.3	655.4	655.9
62.5°	4720.7	2027.6	671.6	738.1	959.6	911.5	940.0	828.2	665.4	649.2	655.4
65°	4776.7	1983.5	644.8	701.2	875.1	839.9	916.5	799.1	652.0	627.4	626.3
67.5°	4701.7	1846.5	590.5	641.4	778.4	756.6	885.8	764.4	630.8	610.6	607.3
70°	4479.2	1540.6	523.4	562.6	668.2	662.6	837.1	724.2	602.3	584.9	570.4
72.5°	3880.3	1097.7	441.2	468.0	544.1	562.0	770.0	671.6	562.0	524.5	502.2
75°	3186.9	812.5	362.4	368.0	413.2	461.9	677.7	610.1	514.5	450.7	433.4
77.5°	1951.6	497.1	288.5	290.8	296.4	368.5	558.1	541.3	454.1	375.8	363.5
80°	631.9	271.2	208.6	219.2	202.4	270.1	431.7	460.8	389.8	314.3	300.8
82.5°	240.5	158.3	140.9	148.2	140.4	181.2	314.8	369.1	319.3	258.3	210.3
85°	116.3	89.5	83.3	93.4	86.7	92.8	201.3	271.8	242.1	168.3	156.6
87.5°	41.4	39.7	31.9	43.1	36.9	33.0	61.5	137.0	159.9	115.8	103.5
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)