

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: P836831

Luminaire Tested: **ARCH3-80-730-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-80-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13193 lumens
Efficiency: N/A
Efficacy: 161.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

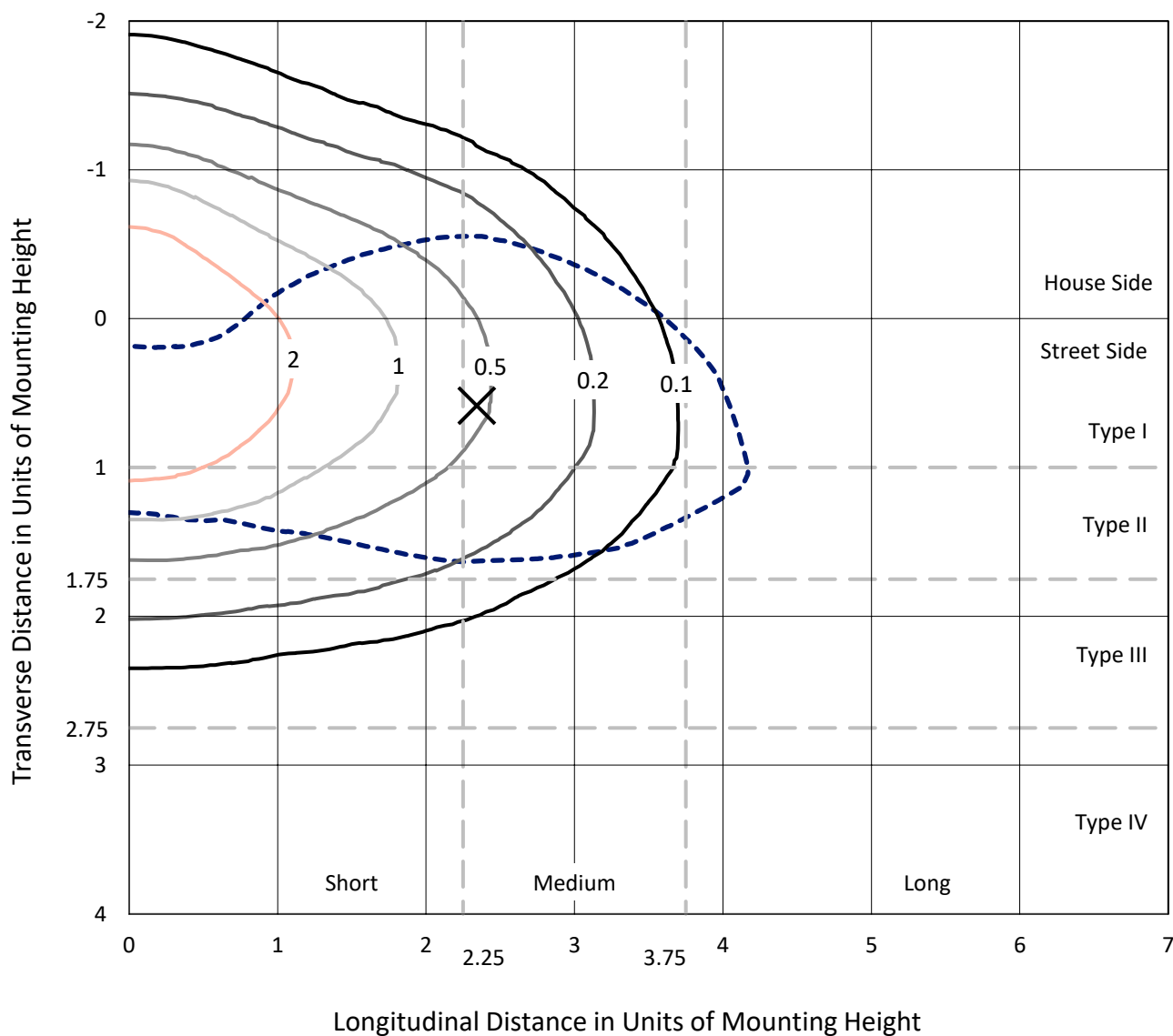
Input Watts (W): 81.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

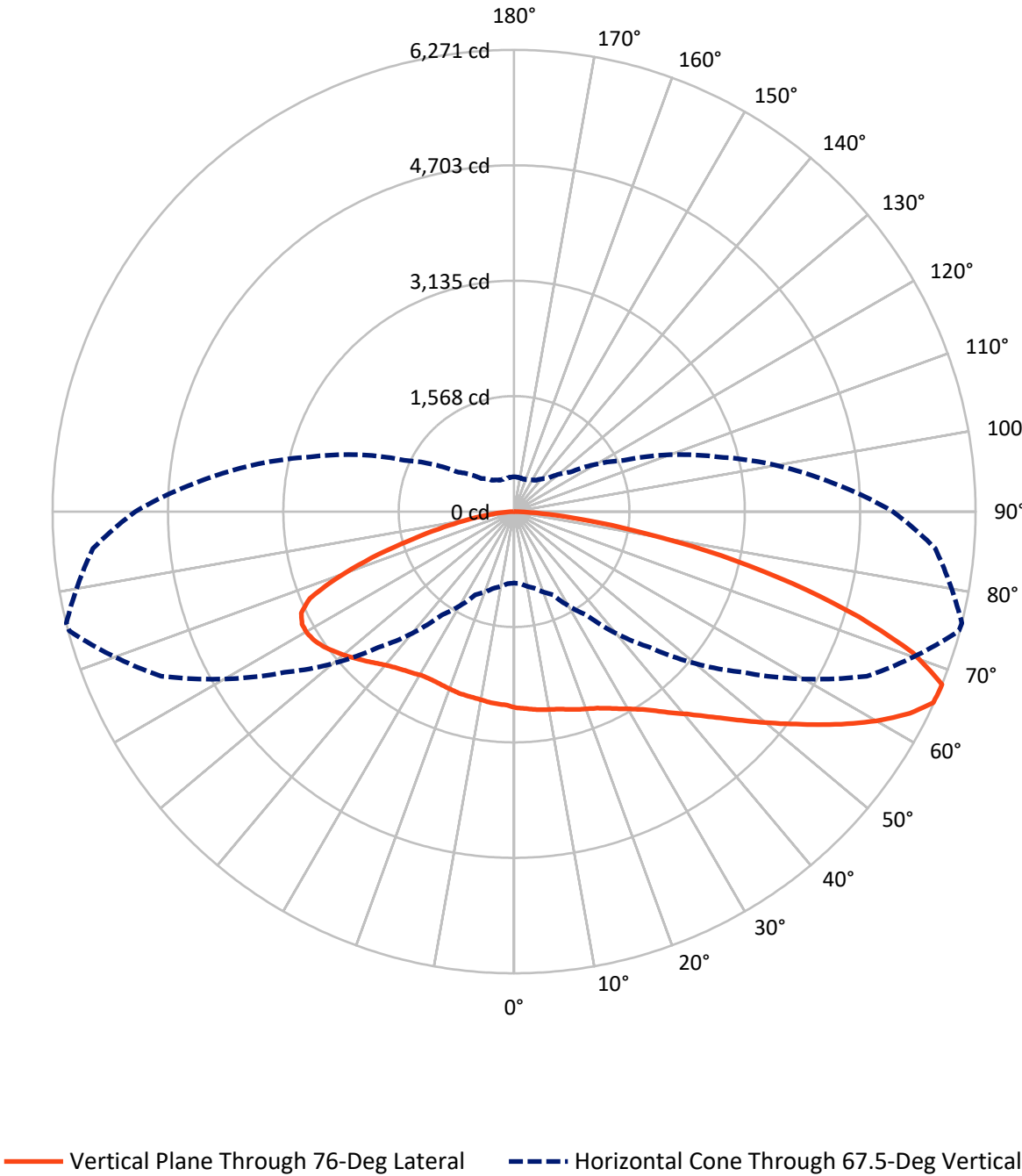
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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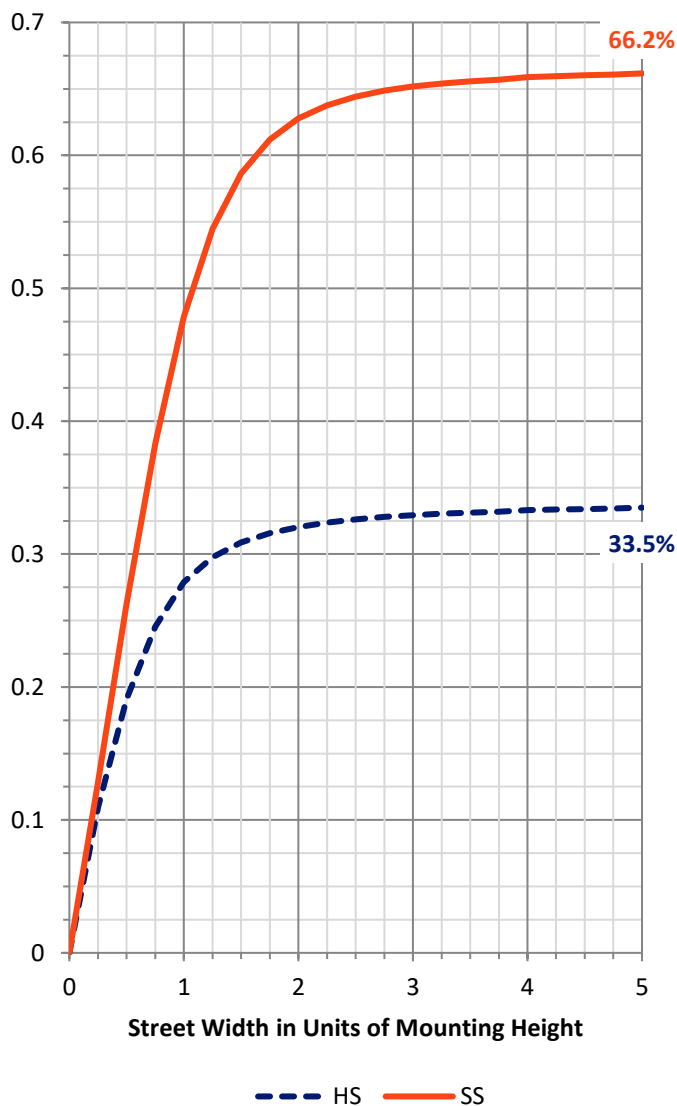
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4458.0	0.0	4458.0
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	8735.0	0.0	8735.0
	% Fixture	66.2	0.0	66.2
Total	Lumens	13193.0	0.0	13193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.0	1.9
10°-20°	785.6	6.0
20°-30°	1334.8	10.1
30°-40°	1899.2	14.4
40°-50°	2398.7	18.2
50°-60°	2597.0	19.7
60°-70°	2415.5	18.3
70°-80°	1297.3	9.8
80°-90°	207.9	1.6
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°	13193.0	100.0
0°-180°	13193.0	100.0

Coefficient of Utilization



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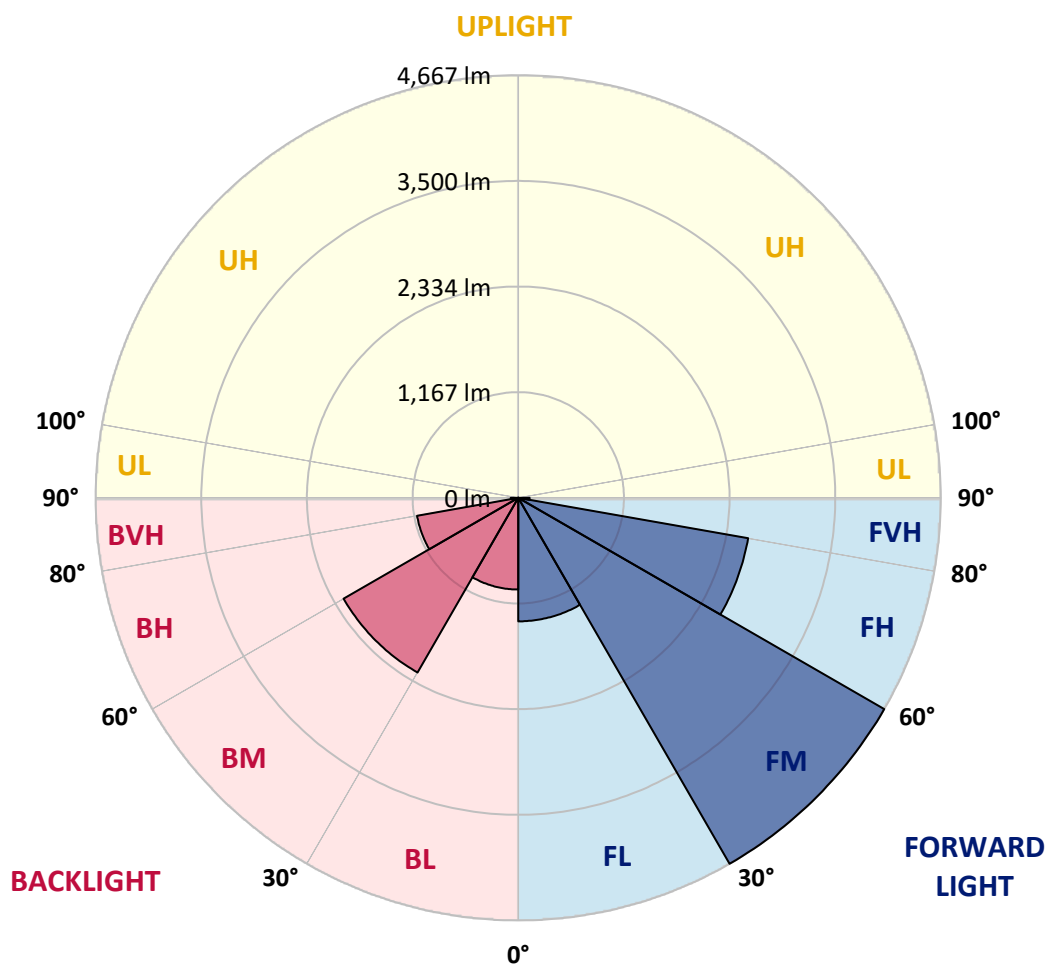
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1364.3	10.3			
FM	(30°-60°)	4667.2	35.4			
FH	(60°-80°)	2577.8	19.5			G2/5000
FVH	(80°-90°)	125.7	1.0			G2/225
BL	(0°-30°)	1013.1	7.7	B3/2500		
BM	(30°-60°)	2227.7	16.9	B2/2500		
BH	(60°-80°)	1135.0	8.6	B3/2500		G3/2500
BVH	(80°-90°)	82.1	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0
2.5°	2745.8	2740.9	2721.3	2723.7	2723.7	2721.3	2691.9	2679.7	2679.7	2677.2	2650.3
5°	2843.8	2836.4	2814.4	2809.5	2799.7	2787.4	2740.9	2713.9	2701.7	2699.2	2662.5
7.5°	2958.9	2949.1	2922.1	2907.4	2883.0	2851.1	2792.3	2750.7	2721.3	2718.8	2667.4
10°	3074.0	3064.2	3032.4	3005.4	2971.1	2919.7	2843.8	2782.5	2736.0	2731.1	2669.9
12.5°	3211.2	3201.4	3162.2	3127.9	3076.5	3007.9	2907.4	2824.2	2760.5	2753.1	2677.2
15°	3355.7	3341.0	3301.8	3262.6	3198.9	3110.7	2990.7	2880.5	2799.7	2787.4	2699.2
17.5°	3475.7	3456.1	3424.3	3385.1	3314.1	3211.2	3074.0	2936.8	2836.4	2826.6	2721.3
20°	3578.6	3563.9	3529.6	3492.9	3416.9	3304.3	3152.4	2993.2	2870.7	2858.5	2738.4
22.5°	3676.6	3657.0	3637.4	3610.4	3527.1	3402.2	3243.0	3061.8	2914.8	2900.1	2760.5
25°	3789.2	3767.2	3759.8	3745.1	3647.2	3519.8	3353.2	3147.5	2976.0	2958.9	2799.7
27.5°	3928.9	3904.4	3889.7	3889.7	3772.1	3639.8	3470.8	3247.9	3047.1	3032.4	2848.7
30°	4075.8	4046.4	4024.4	4024.4	3892.1	3759.8	3585.9	3348.3	3127.9	3110.7	2912.3
32.5°	4205.6	4176.2	4151.7	4149.3	4012.1	3879.9	3706.0	3458.6	3225.9	3203.8	2990.7
35°	4306.1	4279.1	4257.1	4262.0	4132.2	4002.3	3840.7	3605.5	3348.3	3323.8	3093.6
37.5°	4367.3	4357.5	4345.3	4362.4	4242.4	4119.9	3980.3	3747.6	3488.0	3465.9	3221.0
40°	4399.1	4391.8	4440.8	4462.8	4335.5	4225.2	4119.9	3894.6	3639.8	3615.3	3367.9
42.5°	4445.7	4506.9	4526.5	4521.6	4404.0	4306.1	4247.3	4053.8	3818.6	3796.6	3544.3
45°	4279.1	4264.4	4372.2	4431.0	4408.9	4357.5	4367.3	4244.8	4026.8	4004.8	3747.6
47.5°	4056.2	4036.6	4097.9	4242.4	4328.1	4377.1	4475.1	4443.2	4266.9	4247.3	3985.2
50°	3585.9	3612.9	3840.7	4034.2	4203.2	4372.2	4565.7	4656.3	4531.4	4511.8	4239.9
52.5°	3064.2	3091.2	3328.7	3774.5	4051.3	4335.5	4631.8	4869.4	4818.0	4795.9	4511.8
55°	2684.6	2743.3	3012.8	3336.1	3835.8	4220.3	4671.0	5087.4	5126.6	5107.0	4808.2
57.5°	2307.3	2351.4	2554.7	2841.3	3541.8	4019.5	4668.6	5290.7	5449.9	5430.3	5109.5
60°	1864.0	1920.3	2082.0	2390.6	3149.9	3779.4	4600.0	5449.9	5761.0	5746.3	5400.9
62.5°	1560.3	1577.4	1692.5	1959.5	2645.4	3475.7	4445.7	5535.7	6042.7	6032.9	5663.0
65°	1256.5	1259.0	1364.3	1587.2	2157.9	3098.5	4183.6	5503.8	6255.8	6260.7	5851.6
67.5°	970.0	982.2	1077.7	1246.7	1714.6	2608.6	3808.8	5288.3	6258.2	6270.5	5743.9
70°	671.1	680.9	825.5	989.6	1325.1	2079.5	3301.8	4717.6	5743.9	5753.7	5148.7
72.5°	472.7	477.6	631.9	791.2	1036.1	1567.6	2491.0	3901.9	4896.4	4903.7	4330.6
75°	352.7	357.6	445.8	600.1	793.6	1085.1	1702.3	2988.3	3911.7	3911.7	3419.4
77.5°	249.8	252.3	289.0	414.0	529.1	732.4	1023.9	1957.1	2870.7	2875.6	2491.0
80°	169.0	171.5	188.6	279.2	330.7	396.8	556.0	1026.3	1810.1	1817.5	1582.3
82.5°	88.2	93.1	105.3	142.1	166.6	220.4	286.6	521.7	1001.8	1021.4	950.4
85°	34.3	34.3	39.2	46.5	61.2	85.7	132.3	198.4	453.1	467.8	418.8
87.5°	12.2	12.2	14.7	14.7	17.1	19.6	22.0	29.4	51.4	51.4	49.0
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°	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0
2.5°	2640.5	2640.5	2628.2	2633.1	2630.7	2625.8	2620.9	2628.2	2620.9	2603.7	2601.3
5°	2645.4	2640.5	2620.9	2618.4	2611.1	2601.3	2589.0	2593.9	2581.7	2567.0	2564.5
7.5°	2647.8	2638.0	2611.1	2601.3	2586.6	2567.0	2547.4	2547.4	2530.2	2515.5	2513.1
10°	2642.9	2630.7	2593.9	2574.3	2547.4	2518.0	2491.0	2483.7	2464.1	2447.0	2447.0
12.5°	2645.4	2628.2	2581.7	2549.8	2513.1	2476.4	2442.1	2432.3	2415.1	2398.0	2395.5
15°	2660.1	2635.6	2576.8	2535.1	2481.3	2439.6	2402.9	2395.5	2380.8	2368.6	2368.6
17.5°	2674.8	2642.9	2569.4	2510.6	2444.5	2398.0	2363.7	2363.7	2353.9	2346.5	2346.5
20°	2682.1	2645.4	2554.7	2476.4	2400.4	2351.4	2319.6	2324.5	2322.0	2319.6	2319.6
22.5°	2699.2	2650.3	2542.5	2444.5	2353.9	2302.4	2273.1	2280.4	2278.0	2278.0	2280.4
25°	2726.2	2662.5	2532.7	2415.1	2309.8	2253.5	2221.6	2226.5	2226.5	2226.5	2226.5
27.5°	2762.9	2687.0	2530.2	2388.2	2265.7	2202.0	2162.8	2162.8	2153.0	2155.5	2157.9
30°	2819.3	2733.5	2535.1	2363.7	2219.2	2138.3	2091.8	2084.4	2082.0	2086.9	2089.3
32.5°	2887.9	2797.2	2564.5	2346.5	2170.2	2067.3	2008.5	2006.1	1998.7	1998.7	1998.7
35°	2973.6	2858.5	2591.5	2344.1	2121.2	1991.4	1927.7	1920.3	1903.2	1895.8	1895.8
37.5°	3083.8	2954.0	2623.3	2326.9	2079.5	1917.9	1842.0	1817.5	1797.9	1795.4	1795.4
40°	3218.5	3061.8	2669.9	2307.3	2035.5	1842.0	1741.5	1699.9	1702.3	1712.1	1712.1
42.5°	3377.7	3194.0	2728.6	2297.5	1971.8	1763.6	1624.0	1575.0	1592.1	1601.9	1604.4
45°	3563.9	3350.8	2794.8	2285.3	1913.0	1675.4	1499.0	1437.8	1445.2	1447.6	1450.1
47.5°	3779.4	3524.7	2863.4	2275.5	1846.9	1565.2	1361.9	1281.0	1278.6	1263.9	1268.8
50°	4004.8	3708.4	2934.4	2258.4	1766.0	1435.4	1217.4	1121.8	1102.2	1080.2	1082.6
52.5°	4244.8	3897.0	3000.5	2231.4	1665.6	1303.1	1080.2	977.3	938.1	913.6	918.5
55°	4509.4	4090.5	3064.2	2189.8	1560.3	1170.8	957.7	852.4	803.4	783.8	786.3
57.5°	4751.9	4276.7	3110.7	2138.3	1445.2	1050.8	849.9	747.1	715.2	712.8	715.2
60°	4987.0	4433.4	3130.3	2067.3	1327.6	940.6	749.5	671.1	649.1	661.3	663.8
62.5°	5185.4	4533.9	3120.5	1971.8	1207.6	835.2	668.7	612.4	597.7	622.1	624.6
65°	5300.5	4565.7	3052.0	1834.6	1077.7	732.4	592.8	531.5	524.2	538.9	546.2
67.5°	5148.7	4367.3	2865.8	1646.0	933.2	636.8	519.3	470.3	458.0	470.3	470.3
70°	4563.2	3784.3	2424.9	1347.2	774.0	543.8	450.7	416.4	406.6	416.4	414.0
72.5°	3801.5	3147.5	1910.5	1050.8	609.9	458.0	391.9	360.1	350.3	340.5	335.6
75°	2949.1	2390.6	1386.4	771.6	460.5	367.4	328.2	298.8	274.3	284.1	279.2
77.5°	2160.4	1677.8	982.2	534.0	330.7	284.1	257.2	235.1	218.0	237.6	235.1
80°	1391.3	1085.1	656.4	357.6	227.8	198.4	188.6	176.4	193.5	252.3	257.2
82.5°	849.9	688.3	391.9	232.7	149.4	132.3	122.5	122.5	198.4	218.0	220.4
85°	379.7	365.0	213.1	120.0	83.3	75.9	68.6	88.2	80.8	58.8	61.2
87.5°	61.2	63.7	46.5	41.6	31.8	31.8	24.5	17.1	12.2	7.3	7.3
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)