

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: P842676

Luminaire Tested: **ARCH4-80-730-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-80-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14482 lumens
Efficiency: N/A
Efficacy: 173.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

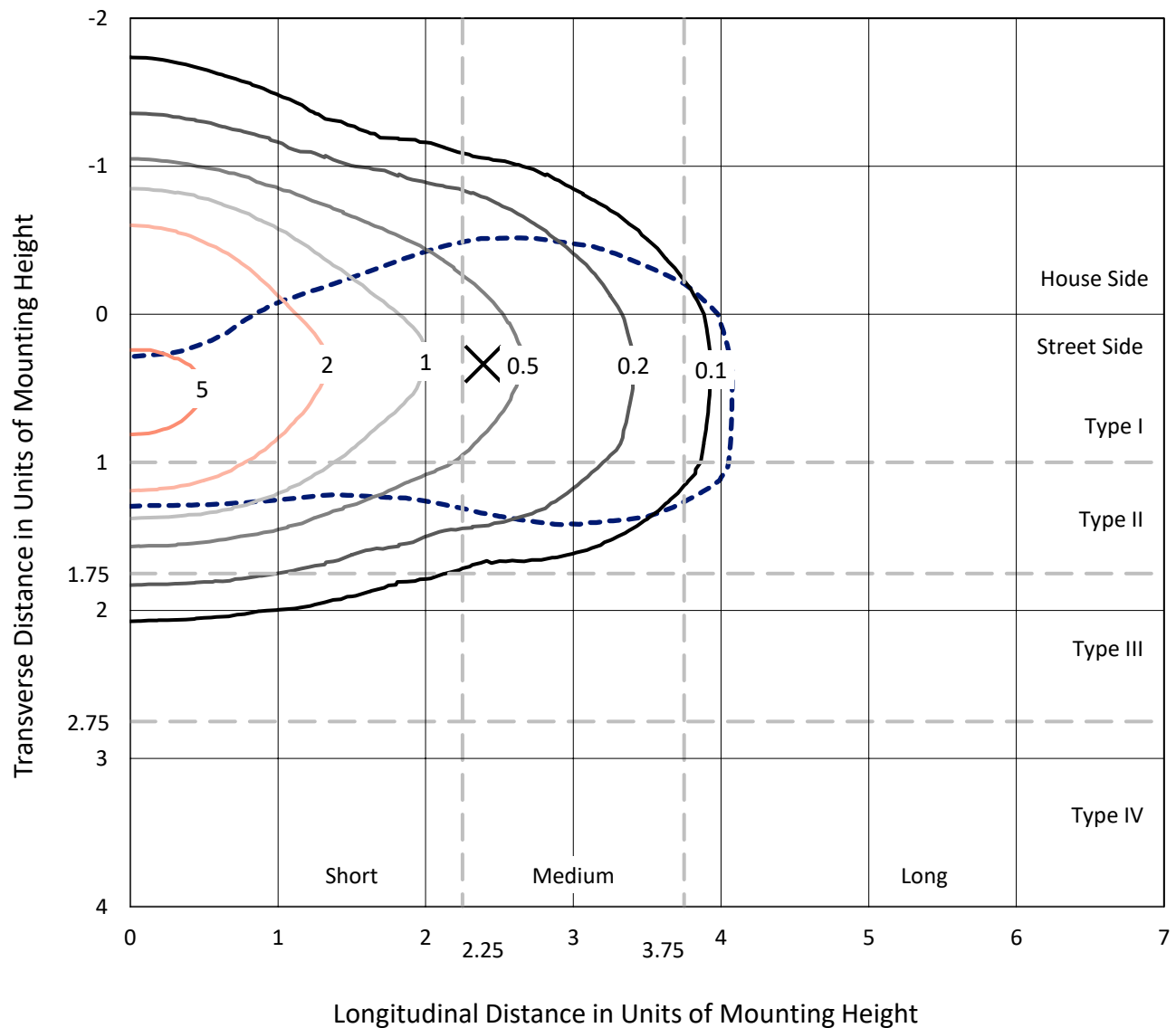
Input Watts (W): 83.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

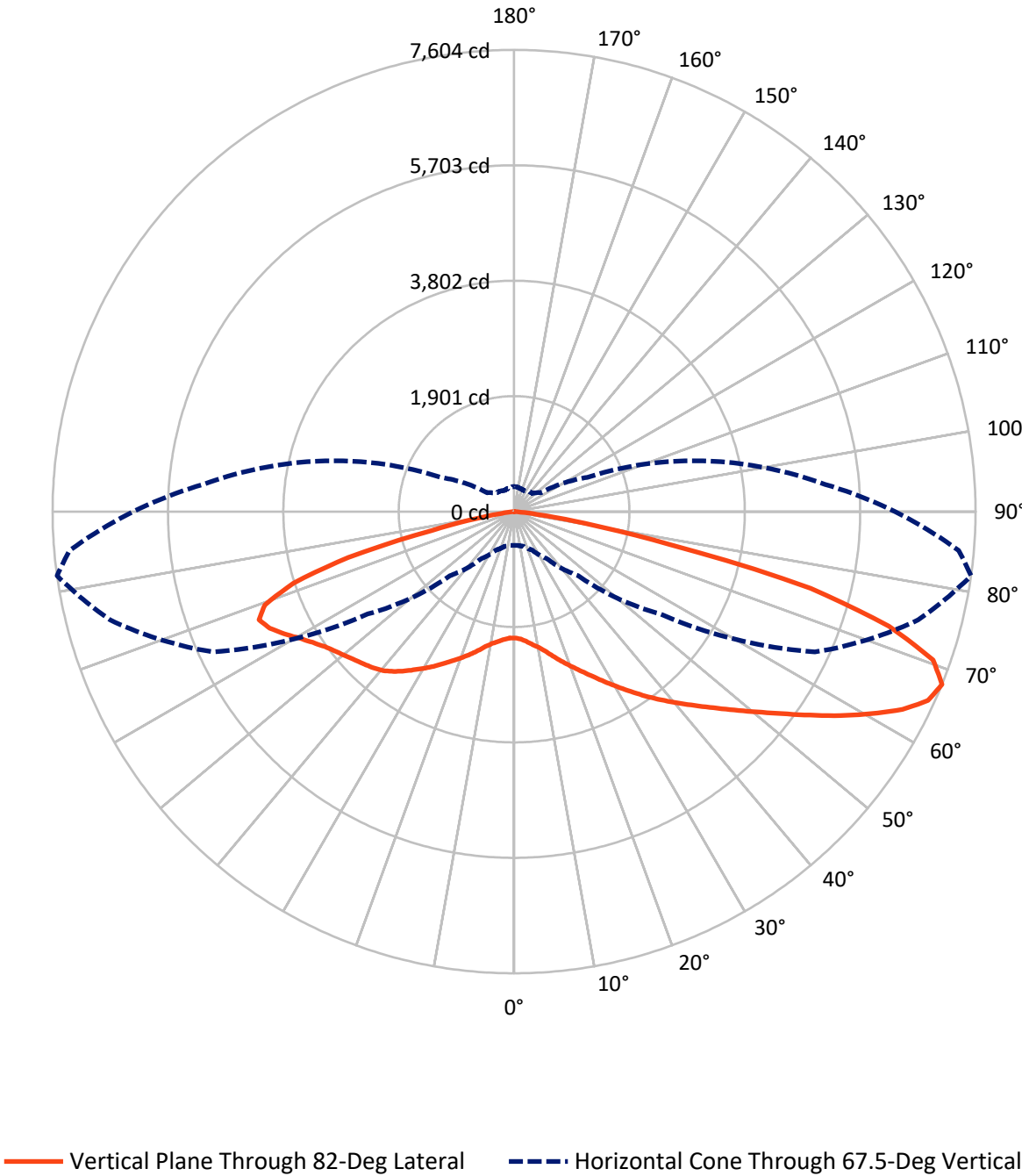
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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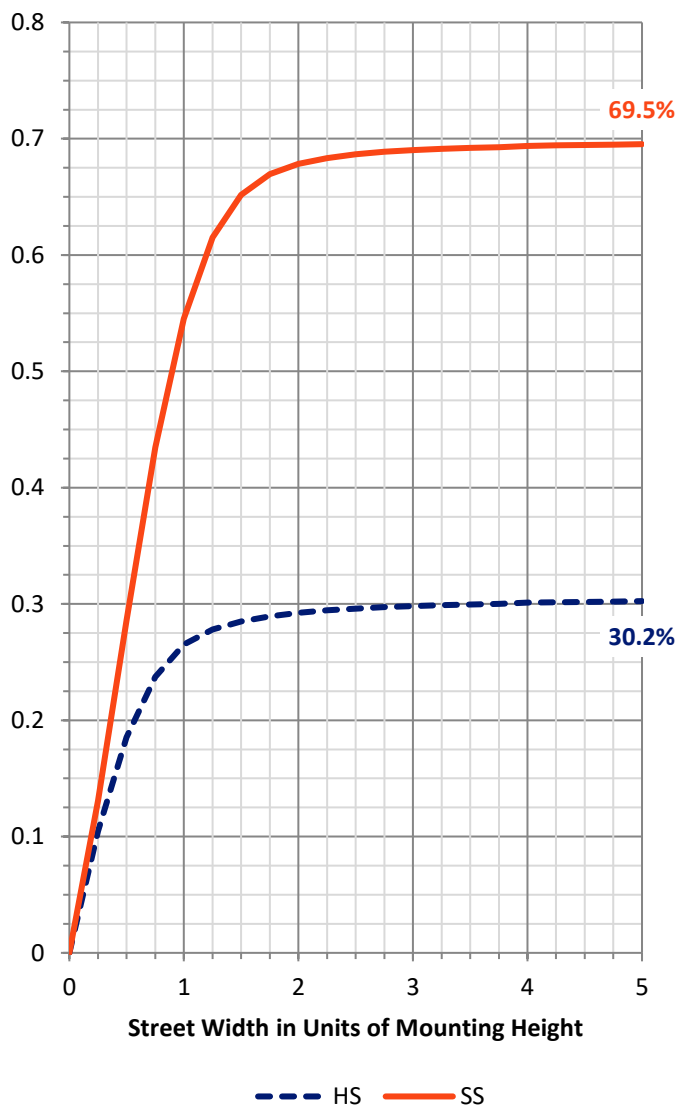
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4410.4	0.0	4410.4
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	10071.6	0.0	10071.6
	% Fixture	69.5	0.0	69.5
Total	Lumens	14482.0	0.0	14482.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.1	1.5
10°-20°	775.0	5.4
20°-30°	1557.5	10.8
30°-40°	2446.6	16.9
40°-50°	2980.4	20.6
50°-60°	2816.1	19.4
60°-70°	2325.5	16.1
70°-80°	1266.3	8.7
80°-90°	99.6	0.7
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°	14482.0	100.0
0°-180°	14482.0	100.0

Coefficient of Utilization



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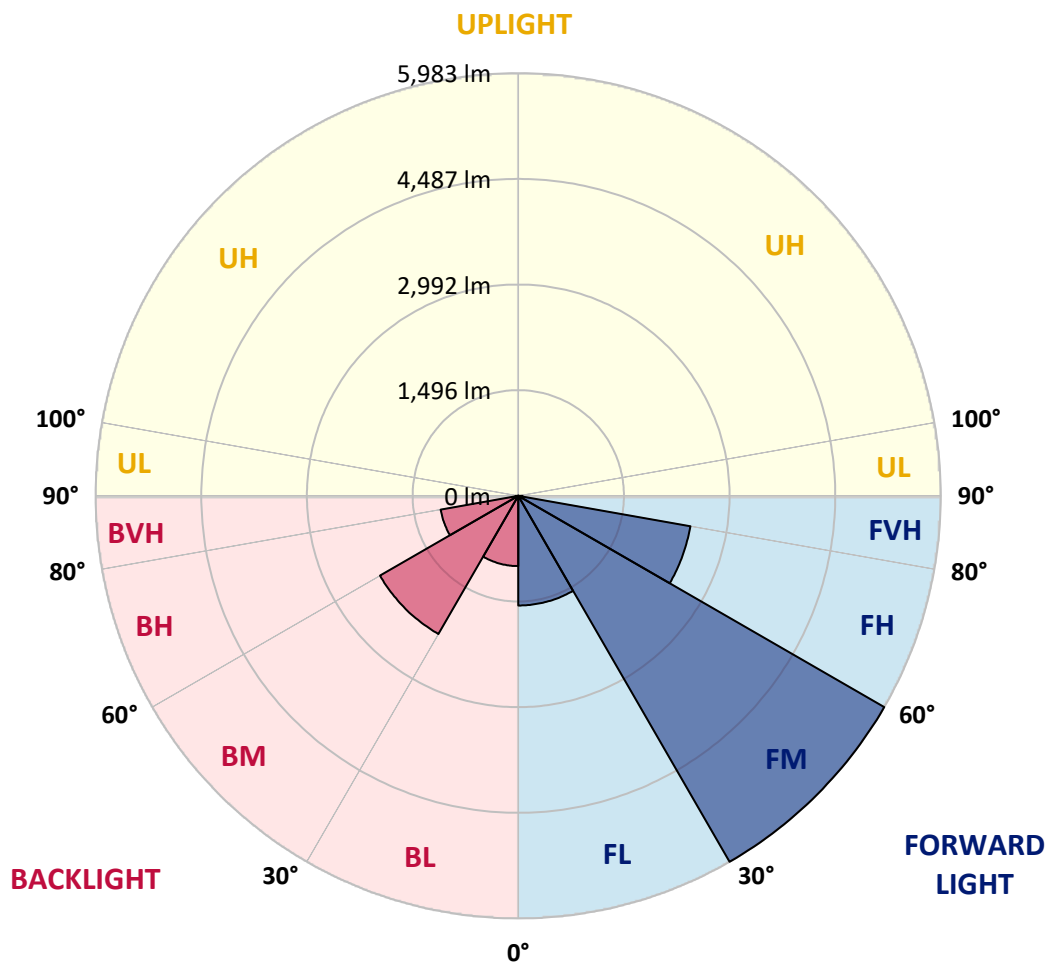
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1553.0	10.7			
FM	(30°-60°)	5983.1	41.3			
FH	(60°-80°)	2475.5	17.1			G2/5000
FVH	(80°-90°)	60.0	0.4			G1/100
BL	(0°-30°)	994.6	6.9	B2/1000		
BM	(30°-60°)	2260.0	15.6	B2/2500		
BH	(60°-80°)	1116.3	7.7	B3/2500		G3/2500
BVH	(80°-90°)	39.5	0.3			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°	82°	85°
0°	2081.8	2081.8	2081.8	2081.8	2081.8	2081.8	2081.8	2081.8	2081.8	2081.8	2081.8
2.5°	2176.4	2176.4	2193.2	2193.2	2178.5	2155.4	2149.1	2123.8	2100.7	2100.7	2102.8
5°	2384.6	2382.5	2395.1	2378.3	2342.5	2296.3	2264.7	2210.1	2163.8	2149.1	2147.0
7.5°	2639.0	2636.9	2643.2	2615.9	2548.6	2472.9	2409.8	2321.5	2245.8	2214.3	2205.8
10°	2922.9	2920.8	2914.5	2868.2	2777.8	2660.1	2565.4	2443.5	2329.9	2279.4	2268.9
12.5°	3248.8	3244.6	3229.9	3162.6	3038.6	2887.2	2750.5	2592.8	2441.4	2372.0	2348.8
15°	3612.6	3606.3	3579.0	3497.0	3330.8	3139.5	2962.9	2761.0	2575.9	2485.5	2454.0
17.5°	3995.3	3995.3	3953.3	3831.3	3646.3	3408.7	3190.0	2933.4	2716.8	2605.4	2567.5
20°	4384.4	4382.3	4329.7	4182.5	3963.8	3690.4	3412.9	3131.1	2861.9	2727.3	2681.1
22.5°	4794.4	4790.2	4725.0	4556.8	4296.0	3986.9	3663.1	3326.6	3021.7	2859.8	2800.9
25°	5265.4	5259.1	5179.2	4973.1	4664.0	4315.0	3944.9	3555.8	3204.7	3007.0	2937.6
27.5°	5765.9	5757.5	5662.9	5423.1	5084.6	4664.0	4256.1	3820.8	3406.5	3171.0	3093.2
30°	6211.7	6205.4	6102.3	5856.3	5467.3	5011.0	4552.6	4085.8	3618.9	3345.6	3248.8
32.5°	6548.1	6548.1	6455.6	6213.8	5810.1	5343.2	4851.2	4336.0	3839.7	3532.7	3419.2
35°	6752.1	6758.4	6678.5	6485.1	6104.5	5656.6	5160.3	4630.4	4075.2	3732.5	3610.5
37.5°	6781.6	6802.6	6756.3	6625.9	6308.4	5917.3	5463.1	4914.3	4319.2	3934.4	3797.7
40°	6644.9	6659.6	6661.7	6611.2	6392.5	6104.5	5730.2	5215.0	4577.8	4146.7	3989.0
42.5°	6371.5	6382.0	6400.9	6415.7	6331.6	6186.5	5934.1	5494.6	4853.3	4363.3	4178.3
45°	6018.2	6016.1	6047.7	6110.8	6106.6	6140.2	6047.7	5749.1	5139.3	4609.4	4388.6
47.5°	5490.4	5479.9	5591.4	5734.4	5805.9	5963.6	6049.8	5948.8	5450.5	4880.6	4628.3
50°	4664.0	4653.5	4897.4	5233.9	5444.2	5683.9	5934.1	6068.7	5776.4	5185.5	4889.0
52.5°	3658.9	3648.4	3957.5	4546.3	5004.7	5353.7	5700.7	6096.0	6085.5	5526.2	5183.4
55°	2721.0	2712.6	3013.3	3650.5	4392.8	4971.0	5414.7	6024.5	6375.7	5917.3	5540.9
57.5°	1917.8	1913.6	2174.3	2702.1	3606.3	4504.2	5139.3	5885.8	6642.8	6342.1	5944.6
60°	1345.8	1339.5	1528.7	1936.7	2727.3	3799.8	4865.9	5700.7	6842.5	6760.5	6373.6
62.5°	906.3	902.1	1036.7	1377.3	1936.7	2925.0	4451.6	5576.6	6956.1	7181.1	6806.8
65°	687.6	685.5	746.5	933.6	1371.0	2100.7	3793.5	5561.9	6970.8	7496.5	7174.8
67.5°	555.1	557.2	590.9	698.1	948.4	1493.0	2941.8	5469.4	6893.0	7603.8	7353.5
70°	454.2	454.2	468.9	540.4	700.2	1007.2	2054.4	5048.8	6676.4	7324.1	7141.1
72.5°	347.0	349.1	395.3	437.4	527.8	706.5	1316.4	4178.3	6165.4	6457.7	6318.9
75°	275.5	273.4	300.7	359.6	410.0	504.7	807.5	2996.5	5246.5	5046.7	4958.4
77.5°	197.7	195.6	216.6	267.1	311.2	357.5	481.5	1511.9	2853.5	2622.2	2557.0
80°	134.6	130.4	149.3	185.0	206.1	210.3	235.5	580.4	1244.9	1173.4	1158.6
82.5°	69.4	69.4	79.9	105.1	107.2	109.3	105.1	187.1	412.2	384.8	368.0
85°	27.3	27.3	29.4	35.7	35.7	37.9	37.9	48.4	44.2	42.1	40.0
87.5°	2.1	2.1	4.2	4.2	6.3	6.3	6.3	8.4	10.5	10.5	10.5
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°	2081.8	2081.8	2081.8	2081.8	2081.8	2081.8	2081.8	2081.8	2081.8	2081.8	2081.8
2.5°	2098.6	2090.2	2062.9	2056.5	2052.3	2046.0	2048.1	2033.4	2027.1	2029.2	2020.8
5°	2136.5	2121.7	2088.1	2073.4	2069.2	2062.9	2069.2	2058.6	2048.1	2052.3	2048.1
7.5°	2189.0	2168.0	2125.9	2111.2	2109.1	2102.8	2111.2	2102.8	2094.4	2098.6	2090.2
10°	2243.7	2216.4	2170.1	2155.4	2155.4	2153.3	2161.7	2149.1	2140.7	2142.8	2138.6
12.5°	2323.6	2287.9	2237.4	2224.8	2218.5	2224.8	2226.9	2210.1	2195.3	2197.4	2191.1
15°	2420.3	2380.4	2325.7	2306.8	2302.6	2300.5	2292.1	2271.0	2252.1	2250.0	2243.7
17.5°	2525.5	2475.0	2409.8	2390.9	2372.0	2365.7	2344.6	2317.3	2287.9	2287.9	2279.4
20°	2626.4	2569.6	2491.8	2464.5	2437.2	2411.9	2376.2	2332.0	2294.2	2287.9	2279.4
22.5°	2735.8	2668.5	2578.0	2538.1	2489.7	2439.3	2378.3	2319.4	2271.0	2260.5	2254.2
25°	2857.7	2773.6	2666.4	2607.5	2529.7	2451.9	2361.5	2285.8	2229.0	2212.2	2207.9
27.5°	2992.3	2891.4	2761.0	2674.8	2561.2	2439.3	2323.6	2233.2	2163.8	2142.8	2136.5
30°	3129.0	3009.1	2847.2	2721.0	2561.2	2399.3	2254.2	2149.1	2069.2	2039.7	2035.5
32.5°	3265.7	3131.1	2925.0	2746.3	2536.0	2332.0	2163.8	2039.7	1949.3	1913.6	1922.0
35°	3429.7	3265.7	2996.5	2756.8	2493.9	2250.0	2060.8	1915.7	1823.1	1791.6	1797.9
37.5°	3600.0	3400.2	3053.3	2748.4	2435.1	2157.5	1945.1	1804.2	1688.6	1633.9	1640.2
40°	3747.2	3522.2	3093.2	2718.9	2359.4	2052.3	1831.5	1646.5	1486.7	1434.1	1427.8
42.5°	3886.0	3612.6	3114.3	2674.8	2273.1	1930.4	1669.6	1432.0	1272.2	1207.0	1209.1
45°	4031.1	3700.9	3105.8	2615.9	2165.9	1787.4	1461.5	1221.7	1080.8	1022.0	1024.1
47.5°	4197.2	3795.6	3097.4	2552.8	2035.5	1602.3	1261.7	1036.7	914.7	872.7	868.5
50°	4373.8	3900.7	3086.9	2475.0	1890.4	1396.3	1064.0	864.3	761.2	733.9	727.6
52.5°	4573.6	4014.3	3080.6	2382.5	1715.9	1177.6	887.4	712.9	643.5	624.5	622.4
55°	4813.3	4146.7	3089.0	2271.0	1505.6	971.5	738.1	614.0	567.8	557.2	555.1
57.5°	5105.6	4317.1	3114.3	2140.7	1284.8	792.8	628.7	553.0	523.6	515.2	515.2
60°	5423.1	4510.5	3160.5	1993.5	1064.0	654.0	557.2	504.7	492.1	502.6	502.6
62.5°	5765.9	4737.6	3242.5	1814.7	857.9	553.0	500.5	464.7	456.3	477.3	479.4
65°	6083.4	4958.4	3295.1	1600.2	681.3	479.4	456.3	424.8	429.0	450.0	447.9
67.5°	6279.0	5141.4	3221.5	1331.1	540.4	424.8	410.0	382.7	393.2	410.0	412.2
70°	6159.1	5038.3	2857.7	1005.1	422.7	370.1	359.6	342.8	351.2	372.2	380.6
72.5°	5572.4	4512.6	2222.7	679.2	340.7	311.2	315.4	307.0	317.5	336.4	355.4
75°	4523.1	3410.8	1490.9	435.3	269.2	265.0	271.3	265.0	269.2	288.1	298.6
77.5°	2361.5	1663.3	742.3	271.3	199.8	206.1	216.6	218.7	231.3	235.5	239.7
80°	1101.9	748.6	309.1	151.4	132.5	145.1	166.1	168.2	172.4	178.7	180.8
82.5°	359.6	225.0	143.0	82.0	75.7	82.0	107.2	128.3	130.4	143.0	143.0
85°	37.9	23.1	31.5	33.6	29.4	35.7	48.4	46.3	21.0	12.6	12.6
87.5°	10.5	8.4	10.5	10.5	8.4	8.4	6.3	2.1	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)