

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: P842730

Luminaire Tested: **ARCH4-90-722-U-T2R**

Issue Date: 5/27/2024

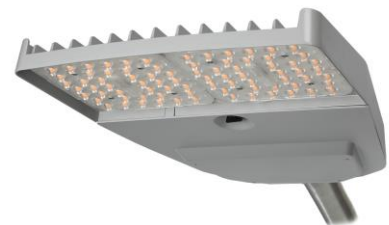
Test Information

Test Method: LM-79-08
Report Number: P842730
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: ARCH4-90-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14058 lumens
Efficiency: N/A
Efficacy: 151.0 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): 93.1
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

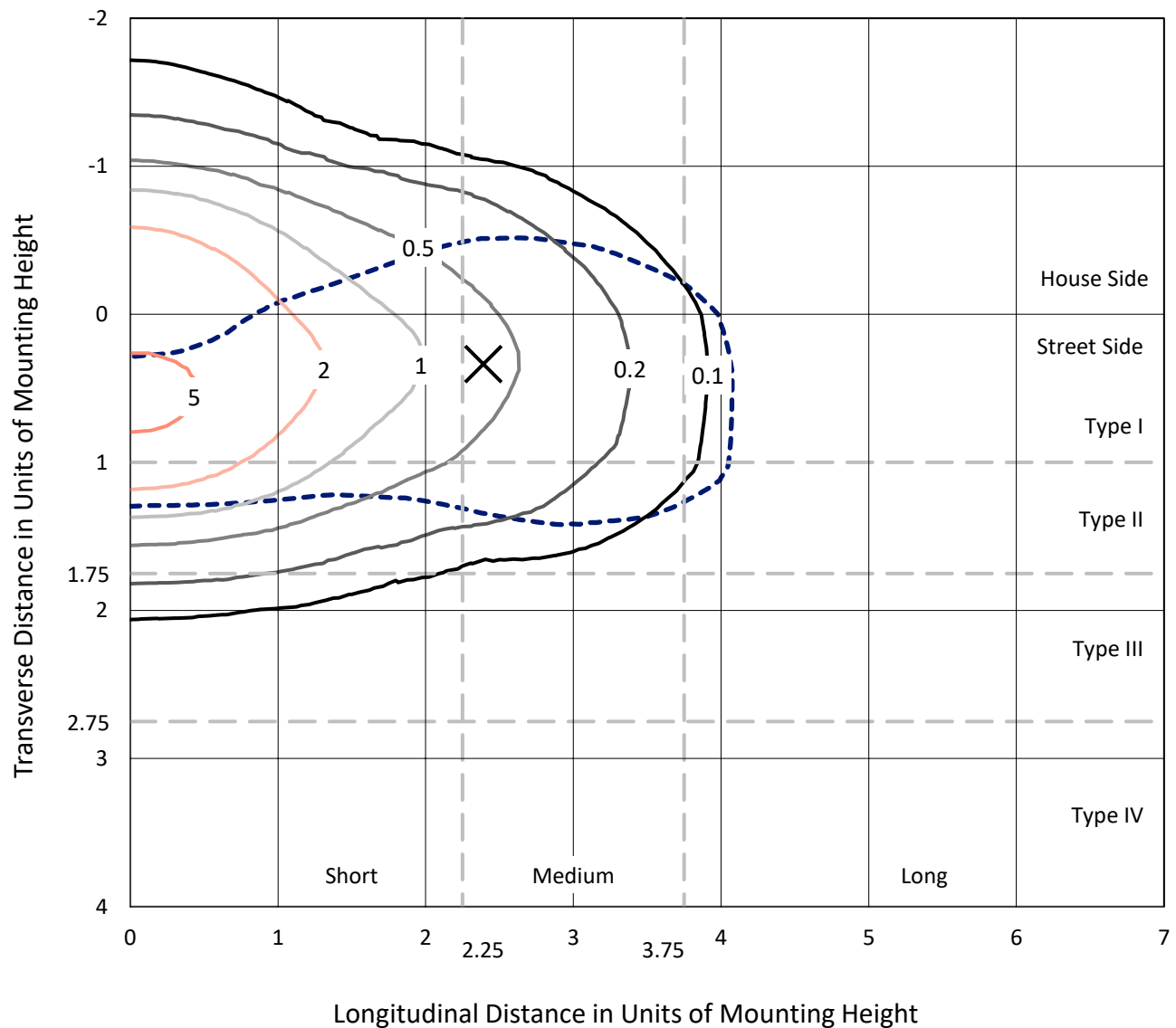


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Iso-Footcandle Lines of Horizontal Illumination

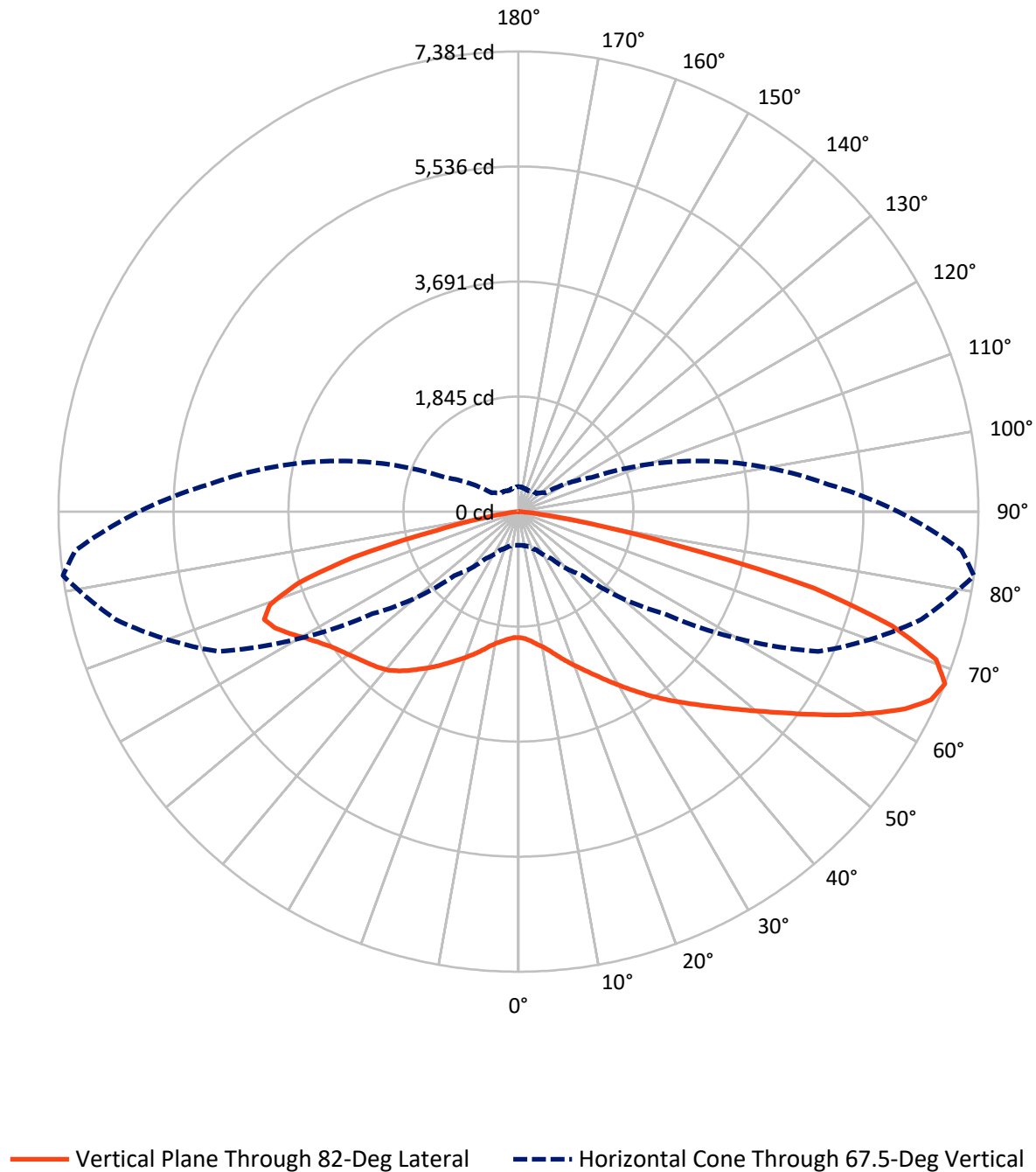
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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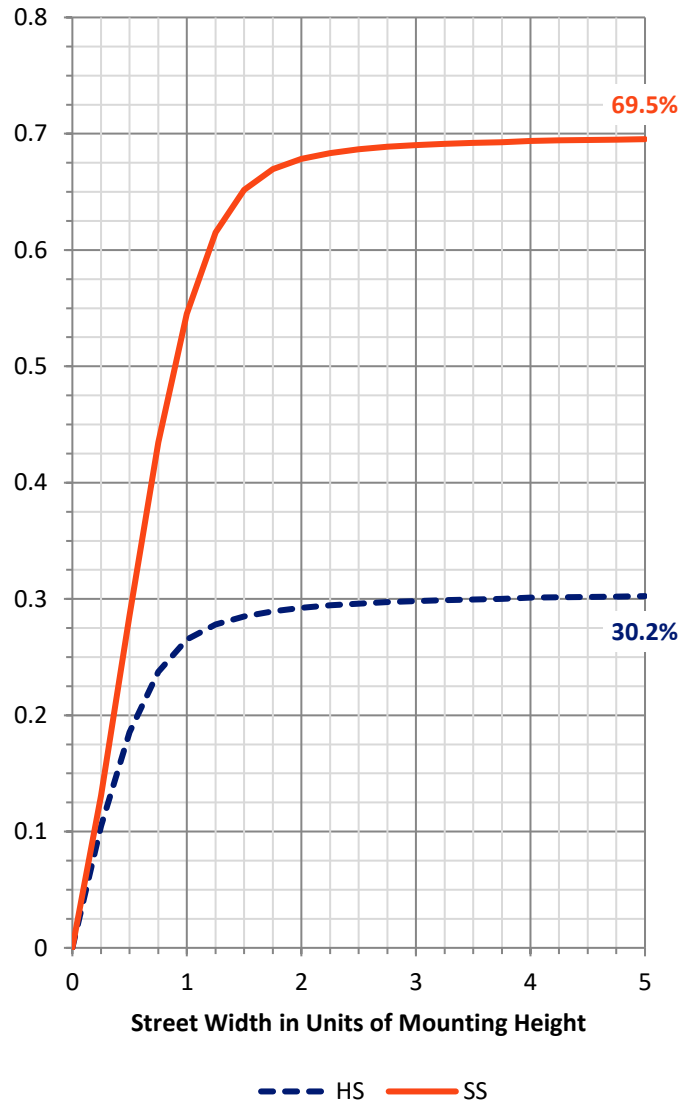
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4281.2	0.0	4281.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	9776.8	0.0	9776.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	14058.0	0.0	14058.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.8	1.5
10°-20°	752.3	5.4
20°-30°	1511.9	10.8
30°-40°	2374.9	16.9
40°-50°	2893.2	20.6
50°-60°	2733.7	19.4
60°-70°	2257.4	16.1
70°-80°	1229.2	8.7
80°-90°	96.6	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°	14058.0	100.0
0°-180°	14058.0	100.0

Coefficient of Utilization



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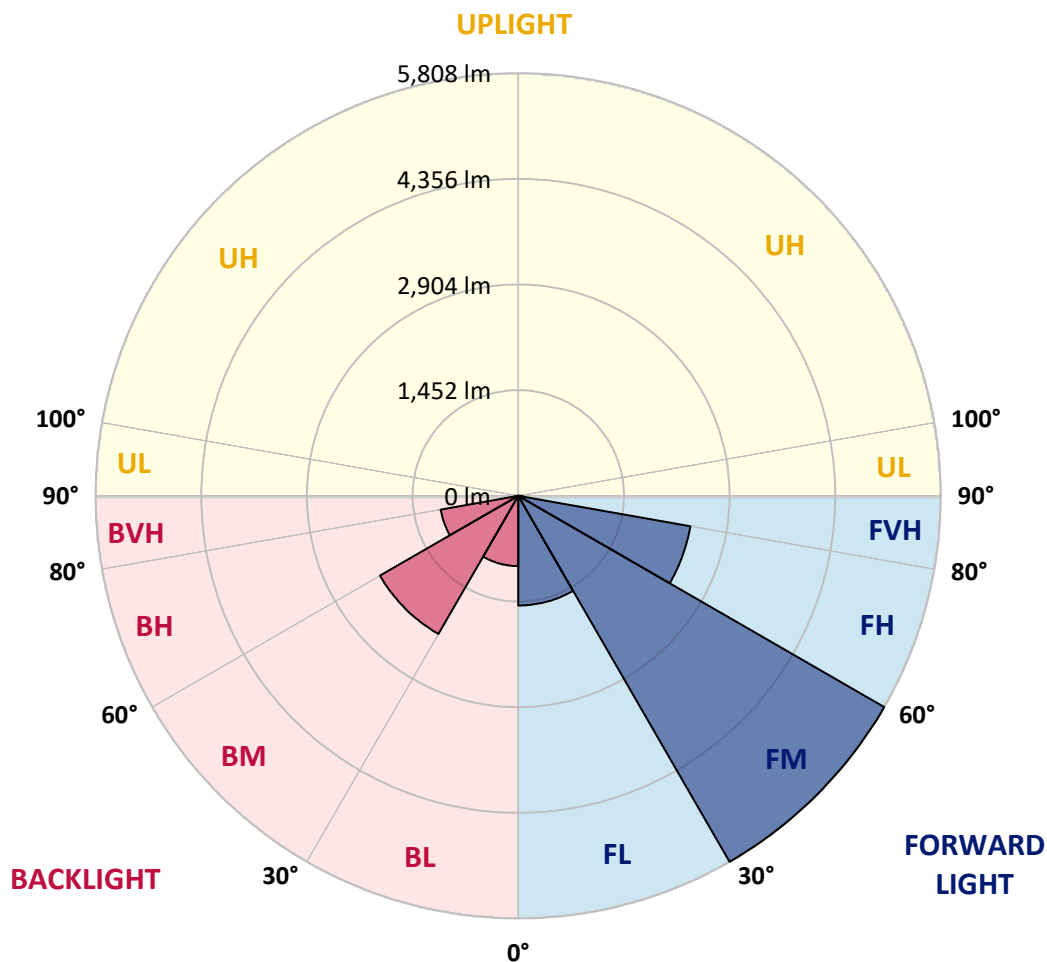
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1507.5	10.7			
FM	(30°-60°)	5808.0	41.3			
FH	(60°-80°)	2403.0	17.1			G2/5000
FVH	(80°-90°)	58.3	0.4			G1/100
BL	(0°-30°)	965.4	6.9	B2/1000		
BM	(30°-60°)	2193.8	15.6	B2/2500		
BH	(60°-80°)	1083.6	7.7	B3/2500		G3/2500
BVH	(80°-90°)	38.4	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°	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8
2.5°	2112.7	2112.7	2129.0	2129.0	2114.7	2092.3	2086.1	2061.7	2039.2	2039.2	2041.2
5°	2314.8	2312.7	2325.0	2308.6	2273.9	2229.0	2198.4	2145.3	2100.4	2086.1	2084.1
7.5°	2561.8	2559.7	2565.8	2539.3	2474.0	2400.5	2339.3	2253.5	2180.0	2149.4	2141.3
10°	2837.3	2835.3	2829.2	2784.3	2696.5	2582.2	2490.3	2371.9	2261.7	2212.7	2202.5
12.5°	3153.7	3149.6	3135.3	3070.0	2949.6	2802.6	2669.9	2516.9	2369.9	2302.5	2280.1
15°	3506.9	3500.7	3474.2	3394.6	3233.3	3047.6	2876.1	2680.2	2500.5	2412.7	2382.1
17.5°	3878.4	3878.4	3837.5	3719.1	3539.5	3308.9	3096.6	2847.5	2637.3	2529.1	2492.4
20°	4256.0	4253.9	4202.9	4060.0	3847.7	3582.4	3312.9	3039.4	2778.1	2647.5	2602.6
22.5°	4654.0	4650.0	4586.7	4423.4	4170.3	3870.2	3555.8	3229.2	2933.3	2776.1	2718.9
25°	5111.3	5105.1	5027.6	4827.5	4527.5	4188.6	3829.4	3451.7	3110.9	2919.0	2851.6
27.5°	5597.1	5588.9	5497.1	5264.4	4935.7	4527.5	4131.5	3708.9	3306.8	3078.2	3002.7
30°	6029.8	6023.7	5923.7	5684.9	5307.2	4864.3	4419.3	3966.1	3513.0	3247.6	3153.7
32.5°	6356.4	6356.4	6266.6	6031.9	5640.0	5186.8	4709.1	4209.0	3727.3	3429.3	3319.1
35°	6554.4	6560.6	6483.0	6295.2	5925.7	5490.9	5009.2	4494.8	3955.9	3623.2	3504.8
37.5°	6583.0	6603.4	6558.5	6432.0	6123.7	5744.1	5303.1	4770.4	4192.7	3819.2	3686.5
40°	6450.3	6464.6	6466.7	6417.7	6205.4	5925.7	5562.4	5062.3	4443.8	4025.3	3872.2
42.5°	6185.0	6195.2	6213.5	6227.8	6146.2	6005.3	5760.4	5333.8	4711.2	4235.6	4055.9
45°	5842.0	5840.0	5870.6	5931.9	5927.8	5960.4	5870.6	5580.8	4988.8	4474.4	4260.1
47.5°	5329.7	5319.5	5427.7	5566.5	5635.9	5789.0	5872.7	5774.7	5290.9	4737.7	4492.8
50°	4527.5	4517.3	4754.1	5080.7	5284.8	5517.5	5760.4	5891.0	5607.3	5033.7	4745.9
52.5°	3551.8	3541.6	3841.6	4413.2	4858.2	5197.0	5533.8	5917.6	5907.4	5364.4	5031.7
55°	2641.4	2633.2	2925.1	3543.6	4264.2	4825.5	5256.2	5848.2	6189.0	5744.1	5378.7
57.5°	1861.6	1857.5	2110.6	2623.0	3500.7	4372.3	4988.8	5713.4	6448.3	6156.4	5770.6
60°	1306.4	1300.3	1484.0	1880.0	2647.5	3688.5	4723.4	5533.8	6642.2	6562.6	6187.0
62.5°	879.8	875.7	1006.3	1337.0	1880.0	2839.4	4321.3	5413.4	6752.4	6970.8	6607.5
65°	667.5	665.4	724.6	906.3	1330.9	2039.2	3682.4	5399.1	6766.7	7277.0	6964.7
67.5°	538.9	540.9	573.6	677.7	920.6	1449.3	2855.7	5309.3	6691.2	7381.1	7138.2
70°	440.9	440.9	455.2	524.6	679.7	977.8	1994.3	4901.0	6480.9	7109.6	6932.1
72.5°	336.8	338.8	383.8	424.6	512.4	685.9	1277.8	4055.9	5984.9	6268.7	6133.9
75°	267.4	265.4	291.9	349.1	398.0	489.9	783.8	2908.8	5092.9	4899.0	4813.3
77.5°	191.9	189.8	210.2	259.2	302.1	347.0	467.4	1467.7	2770.0	2545.4	2482.2
80°	130.6	126.6	144.9	179.6	200.0	204.1	228.6	563.4	1208.4	1139.0	1124.7
82.5°	67.4	67.4	77.6	102.1	104.1	106.1	102.1	181.7	400.1	373.5	357.2
85°	26.5	26.5	28.6	34.7	34.7	36.7	36.7	46.9	42.9	40.8	38.8
87.5°	2.0	2.0	4.1	4.1	6.1	6.1	6.1	8.2	10.2	10.2	10.2
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°	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8
2.5°	2037.2	2029.0	2002.5	1996.3	1992.3	1986.1	1988.2	1973.9	1967.8	1969.8	1961.6
5°	2073.9	2059.6	2027.0	2012.7	2008.6	2002.5	2008.6	1998.4	1988.2	1992.3	1988.2
7.5°	2124.9	2104.5	2063.7	2049.4	2047.4	2041.2	2049.4	2041.2	2033.1	2037.2	2029.0
10°	2178.0	2151.5	2106.6	2092.3	2092.3	2090.2	2098.4	2086.1	2078.0	2080.0	2075.9
12.5°	2255.6	2220.9	2171.9	2159.6	2153.5	2159.6	2161.7	2145.3	2131.1	2133.1	2127.0
15°	2349.5	2310.7	2257.6	2239.2	2235.2	2233.1	2225.0	2204.5	2186.2	2184.1	2178.0
17.5°	2451.5	2402.5	2339.3	2320.9	2302.5	2296.4	2276.0	2249.4	2220.9	2220.9	2212.7
20°	2549.5	2494.4	2418.9	2392.3	2365.8	2341.3	2306.6	2263.7	2227.0	2220.9	2212.7
22.5°	2655.7	2590.3	2502.6	2463.8	2416.8	2367.8	2308.6	2251.5	2204.5	2194.3	2188.2
25°	2774.0	2692.4	2588.3	2531.1	2455.6	2380.1	2292.3	2218.8	2163.7	2147.4	2143.3
27.5°	2904.7	2806.7	2680.2	2596.5	2486.2	2367.8	2255.6	2167.8	2100.4	2080.0	2073.9
30°	3037.4	2921.0	2763.8	2641.4	2486.2	2329.1	2188.2	2086.1	2008.6	1980.0	1975.9
32.5°	3170.0	3039.4	2839.4	2665.9	2461.7	2263.7	2100.4	1980.0	1892.2	1857.5	1865.7
35°	3329.3	3170.0	2908.8	2676.1	2420.9	2184.1	2000.4	1859.6	1769.8	1739.1	1745.3
37.5°	3494.6	3300.7	2963.9	2667.9	2363.8	2094.3	1888.1	1751.4	1639.1	1586.0	1592.2
40°	3637.5	3419.1	3002.7	2639.3	2290.3	1992.3	1777.9	1598.3	1443.2	1392.1	1386.0
42.5°	3772.2	3506.9	3023.1	2596.5	2206.6	1873.9	1620.7	1390.1	1235.0	1171.7	1173.7
45°	3913.1	3592.6	3014.9	2539.3	2102.5	1735.1	1418.7	1186.0	1049.2	992.0	994.1
47.5°	4074.3	3684.4	3006.8	2478.1	1975.9	1555.4	1224.7	1006.3	887.9	847.1	843.0
50°	4245.8	3786.5	2996.5	2402.5	1835.1	1355.4	1032.9	839.0	738.9	712.4	706.3
52.5°	4439.7	3896.7	2990.4	2312.7	1665.7	1143.1	861.4	692.0	624.6	606.2	604.2
55°	4672.4	4025.3	2998.6	2204.5	1461.5	943.1	716.5	596.0	551.1	540.9	538.9
57.5°	4956.1	4190.7	3023.1	2078.0	1247.2	769.5	610.3	536.8	508.3	500.1	500.1
60°	5264.4	4378.5	3068.0	1935.1	1032.9	634.8	540.9	489.9	477.7	487.9	487.9
62.5°	5597.1	4598.9	3147.6	1761.6	832.8	536.8	485.8	451.1	442.9	463.4	465.4
65°	5905.3	4813.3	3198.6	1553.4	661.4	465.4	442.9	412.3	416.4	436.8	434.8
67.5°	6095.2	4990.8	3127.2	1292.1	524.6	412.3	398.0	371.5	381.7	398.0	400.1
70°	5978.8	4890.8	2774.0	975.7	410.3	359.3	349.1	332.7	340.9	361.3	369.5
72.5°	5409.3	4380.5	2157.6	659.3	330.7	302.1	306.2	298.0	308.2	326.6	345.0
75°	4390.7	3310.9	1447.2	422.5	261.3	257.2	263.3	257.2	261.3	279.7	289.9
77.5°	2292.3	1614.6	720.6	263.3	193.9	200.0	210.2	212.3	224.5	228.6	232.7
80°	1069.6	726.7	300.1	147.0	128.6	140.8	161.3	163.3	167.4	173.5	175.5
82.5°	349.1	218.4	138.8	79.6	73.5	79.6	104.1	124.5	126.6	138.8	138.8
85°	36.7	22.5	30.6	32.7	28.6	34.7	46.9	44.9	20.4	12.2	12.2
87.5°	10.2	8.2	10.2	10.2	8.2	8.2	6.1	2.0	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)