

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: P842588

Luminaire Tested: **ARCH4-70-722-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-70-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11276 lumens
Efficiency: N/A
Efficacy: 152.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.8
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

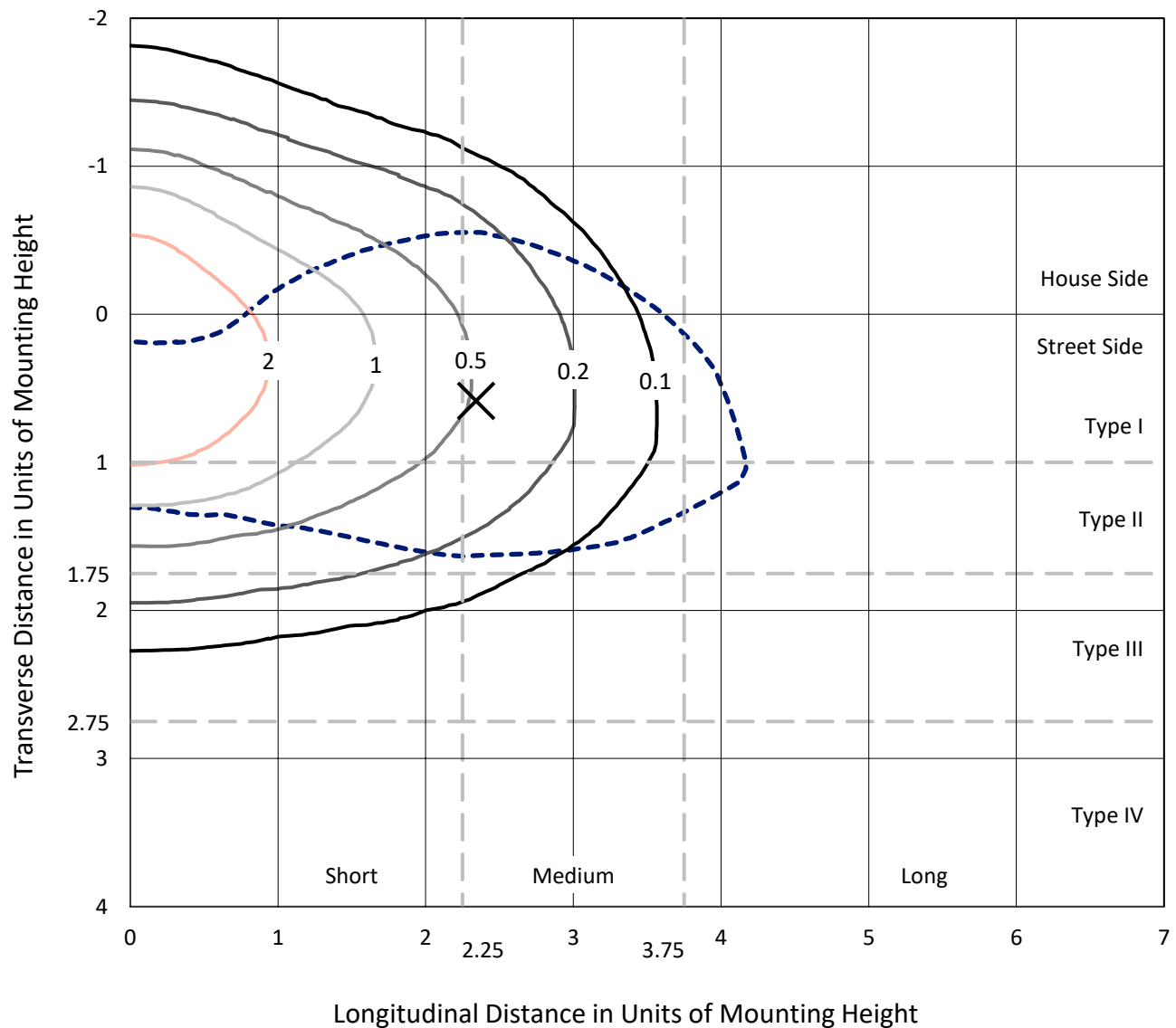


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Iso-Footcandle Lines of Horizontal Illumination

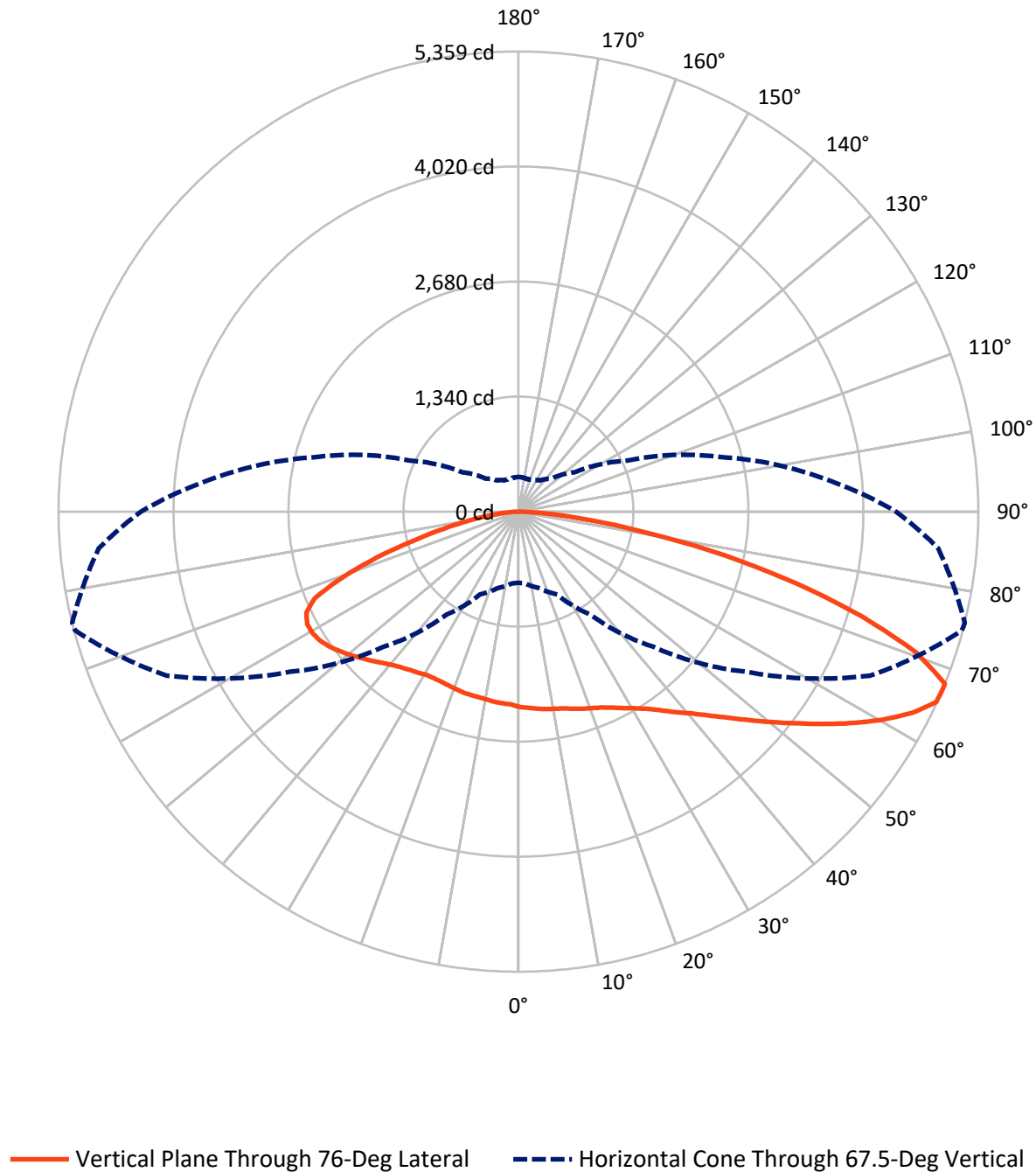
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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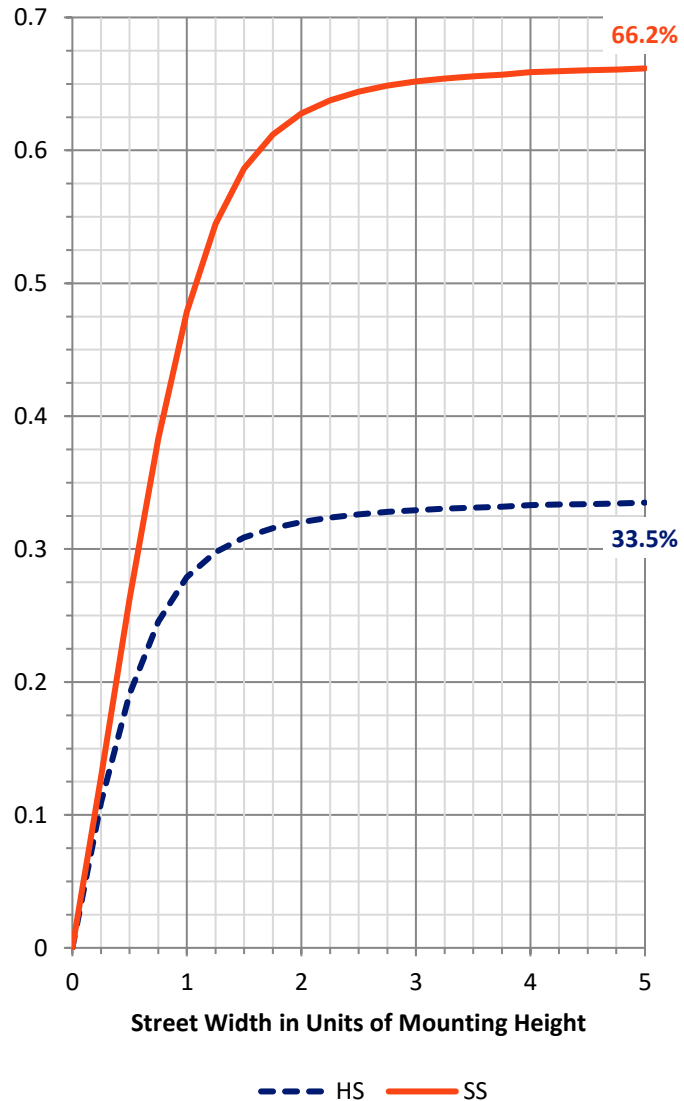
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3810.2	0.0	3810.2
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	7465.8	0.0	7465.8
	% Fixture	66.2	0.0	66.2
Total	Lumens	11276.0	0.0	11276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.6	1.9
10°-20°	671.5	6.0
20°-30°	1140.8	10.1
30°-40°	1623.3	14.4
40°-50°	2050.1	18.2
50°-60°	2219.6	19.7
60°-70°	2064.5	18.3
70°-80°	1108.8	9.8
80°-90°	177.7	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°	11276.0	100.0
0°-180°	11276.0	100.0

Coefficient of Utilization



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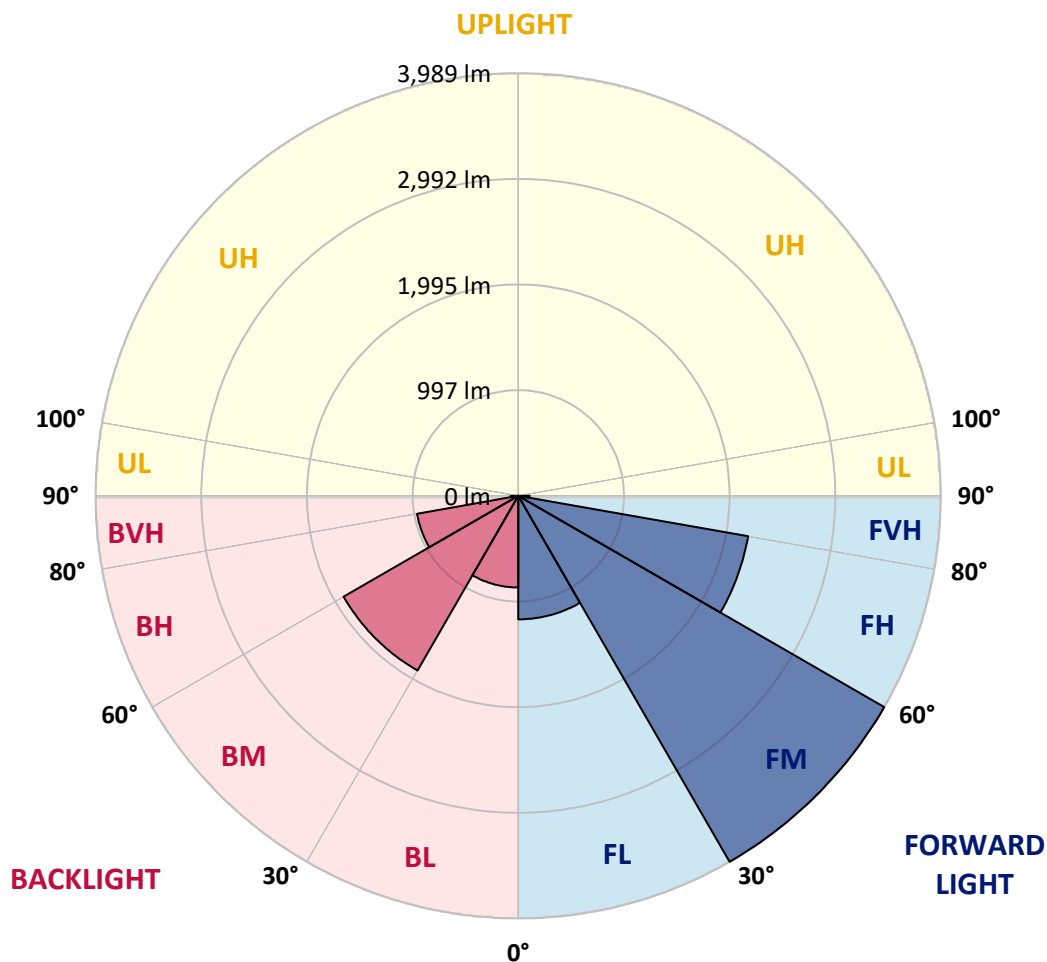
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1166.1	10.3			
FM	(30°-60°)	3989.0	35.4			
FH	(60°-80°)	2203.2	19.5			G2/5000
FVH	(80°-90°)	107.5	1.0			G2/225
BL	(0°-30°)	865.9	7.7	B2/1000		
BM	(30°-60°)	1904.0	16.9	B2/2500		
BH	(60°-80°)	970.1	8.6	B2/1000		G2/1000
BVH	(80°-90°)	70.2	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2277.7	2277.7	2277.7	2277.7	2277.7	2277.7	2277.7	2277.7	2277.7	2277.7	2277.7
2.5°	2346.8	2342.6	2325.9	2328.0	2328.0	2325.9	2300.8	2290.3	2290.3	2288.2	2265.2
5°	2430.6	2424.3	2405.4	2401.2	2392.9	2382.4	2342.6	2319.6	2309.1	2307.0	2275.6
7.5°	2528.9	2520.6	2497.5	2485.0	2464.0	2436.8	2386.6	2351.0	2325.9	2323.8	2279.8
10°	2627.3	2619.0	2591.8	2568.7	2539.4	2495.5	2430.6	2378.2	2338.4	2334.3	2281.9
12.5°	2744.6	2736.2	2702.7	2673.4	2629.4	2570.8	2485.0	2413.8	2359.4	2353.1	2288.2
15°	2868.1	2855.5	2822.0	2788.5	2734.1	2658.7	2556.2	2462.0	2392.9	2382.4	2307.0
17.5°	2970.7	2953.9	2926.7	2893.2	2832.5	2744.6	2627.3	2510.1	2424.3	2415.9	2325.9
20°	3058.6	3046.0	3016.7	2985.3	2920.4	2824.1	2694.3	2558.3	2453.6	2443.1	2340.5
22.5°	3142.3	3125.6	3108.8	3085.8	3014.6	2907.9	2771.8	2616.9	2491.3	2478.7	2359.4
25°	3238.6	3219.8	3213.5	3201.0	3117.2	3008.4	2866.0	2690.1	2543.6	2528.9	2392.9
27.5°	3358.0	3337.0	3324.5	3324.5	3224.0	3110.9	2966.5	2776.0	2604.3	2591.8	2434.7
30°	3483.6	3458.5	3439.6	3439.6	3326.6	3213.5	3064.9	2861.8	2673.4	2658.7	2489.2
32.5°	3594.5	3569.4	3548.5	3546.4	3429.2	3316.1	3167.5	2956.0	2757.1	2738.3	2556.2
35°	3680.4	3657.3	3638.5	3642.7	3531.7	3420.8	3282.6	3081.6	2861.8	2840.9	2644.1
37.5°	3732.7	3724.3	3713.9	3728.5	3625.9	3521.3	3401.9	3203.1	2981.1	2962.3	2753.0
40°	3759.9	3753.6	3795.5	3814.4	3705.5	3611.3	3521.3	3328.7	3110.9	3090.0	2878.6
42.5°	3799.7	3852.0	3868.8	3864.6	3764.1	3680.4	3630.1	3464.7	3263.8	3244.9	3029.3
45°	3657.3	3644.8	3736.9	3787.1	3768.3	3724.3	3732.7	3628.0	3441.7	3422.9	3203.1
47.5°	3466.8	3450.1	3502.4	3625.9	3699.2	3741.1	3824.8	3797.6	3646.9	3630.1	3406.1
50°	3064.9	3087.9	3282.6	3448.0	3592.4	3736.9	3902.3	3979.7	3873.0	3856.2	3623.8
52.5°	2619.0	2642.0	2845.1	3226.1	3462.6	3705.5	3958.8	4161.9	4117.9	4099.1	3856.2
55°	2294.5	2344.7	2575.0	2851.3	3278.4	3607.1	3992.3	4348.2	4381.7	4364.9	4109.5
57.5°	1972.1	2009.8	2183.5	2428.5	3027.2	3435.4	3990.2	4522.0	4658.0	4641.3	4367.0
60°	1593.2	1641.3	1779.5	2043.3	2692.2	3230.3	3931.6	4658.0	4923.9	4911.3	4616.2
62.5°	1333.6	1348.2	1446.6	1674.8	2261.0	2970.7	3799.7	4731.3	5164.7	5156.3	4840.2
65°	1074.0	1076.1	1166.1	1356.6	1844.4	2648.3	3575.7	4704.1	5346.8	5351.0	5001.4
67.5°	829.0	839.5	921.1	1065.6	1465.4	2229.6	3255.4	4519.9	5348.9	5359.4	4909.3
70°	573.6	582.0	705.5	845.8	1132.6	1777.4	2822.0	4032.1	4909.3	4917.6	4400.5
72.5°	404.0	408.2	540.1	676.2	885.6	1339.8	2129.1	3334.9	4184.9	4191.2	3701.3
75°	301.5	305.7	381.0	512.9	678.3	927.4	1455.0	2554.1	3343.3	3343.3	2922.5
77.5°	213.5	215.6	247.0	353.8	452.2	626.0	875.1	1672.7	2453.6	2457.8	2129.1
80°	144.5	146.5	161.2	238.7	282.6	339.1	475.2	877.2	1547.1	1553.4	1352.4
82.5°	75.4	79.6	90.0	121.4	142.4	188.4	244.9	445.9	856.2	873.0	812.3
85°	29.3	29.3	33.5	39.8	52.3	73.3	113.0	169.6	387.3	399.9	358.0
87.5°	10.5	10.5	12.6	12.6	14.7	16.7	18.8	25.1	44.0	44.0	41.9
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°	2277.7	2277.7	2277.7	2277.7	2277.7	2277.7	2277.7	2277.7	2277.7	2277.7	2277.7
2.5°	2256.8	2256.8	2246.3	2250.5	2248.4	2244.2	2240.0	2246.3	2240.0	2225.4	2223.3
5°	2261.0	2256.8	2240.0	2238.0	2231.7	2223.3	2212.8	2217.0	2206.5	2194.0	2191.9
7.5°	2263.1	2254.7	2231.7	2223.3	2210.7	2194.0	2177.2	2177.2	2162.6	2150.0	2147.9
10°	2258.9	2248.4	2217.0	2200.3	2177.2	2152.1	2129.1	2122.8	2106.1	2091.4	2091.4
12.5°	2261.0	2246.3	2206.5	2179.3	2147.9	2116.5	2087.2	2078.8	2064.2	2049.5	2047.4
15°	2273.5	2252.6	2202.4	2166.8	2120.7	2085.1	2053.7	2047.4	2034.9	2024.4	2024.4
17.5°	2286.1	2258.9	2196.1	2145.8	2089.3	2049.5	2020.2	2020.2	2011.9	2005.6	2005.6
20°	2292.4	2261.0	2183.5	2116.5	2051.6	2009.8	1982.5	1986.7	1984.6	1982.5	1982.5
22.5°	2307.0	2265.2	2173.1	2089.3	2011.9	1967.9	1942.8	1949.0	1947.0	1947.0	1949.0
25°	2330.1	2275.6	2164.7	2064.2	1974.2	1926.0	1898.8	1903.0	1903.0	1903.0	1903.0
27.5°	2361.5	2296.6	2162.6	2041.2	1936.5	1882.1	1848.6	1848.6	1840.2	1842.3	1844.4
30°	2409.6	2336.3	2166.8	2020.2	1896.7	1827.6	1787.8	1781.6	1779.5	1783.7	1785.8
32.5°	2468.2	2390.8	2191.9	2005.6	1854.8	1766.9	1716.7	1714.6	1708.3	1708.3	1708.3
35°	2541.5	2443.1	2214.9	2003.5	1813.0	1702.0	1647.6	1641.3	1626.6	1620.4	1620.4
37.5°	2635.7	2524.8	2242.1	1988.8	1777.4	1639.2	1574.3	1553.4	1536.6	1534.5	1534.5
40°	2750.9	2616.9	2281.9	1972.1	1739.7	1574.3	1488.5	1452.9	1455.0	1463.4	1463.4
42.5°	2886.9	2729.9	2332.2	1963.7	1685.3	1507.3	1388.0	1346.1	1360.8	1369.1	1371.2
45°	3046.0	2863.9	2388.7	1953.2	1635.0	1432.0	1281.2	1228.9	1235.2	1237.3	1239.4
47.5°	3230.3	3012.5	2447.3	1944.9	1578.5	1337.7	1164.0	1094.9	1092.8	1080.2	1084.4
50°	3422.9	3169.6	2508.0	1930.2	1509.4	1226.8	1040.5	958.8	942.1	923.2	925.3
52.5°	3628.0	3330.8	2564.5	1907.2	1423.6	1113.7	923.2	835.3	801.8	780.9	785.1
55°	3854.1	3496.1	2619.0	1871.6	1333.6	1000.7	818.6	728.5	686.7	669.9	672.0
57.5°	4061.4	3655.2	2658.7	1827.6	1235.2	898.1	726.4	638.5	611.3	609.2	611.3
60°	4262.4	3789.2	2675.5	1766.9	1134.7	803.9	640.6	573.6	554.8	565.2	567.3
62.5°	4431.9	3875.1	2667.1	1685.3	1032.1	713.9	571.5	523.4	510.8	531.7	533.8
65°	4530.3	3902.3	2608.5	1568.0	921.1	626.0	506.6	454.3	448.0	460.6	466.9
67.5°	4400.5	3732.7	2449.4	1406.8	797.6	544.3	443.8	402.0	391.5	402.0	402.0
70°	3900.2	3234.5	2072.6	1151.4	661.5	464.8	385.2	355.9	347.5	355.9	353.8
72.5°	3249.1	2690.1	1632.9	898.1	521.3	391.5	335.0	307.7	299.4	291.0	286.8
75°	2520.6	2043.3	1184.9	659.5	393.6	314.0	280.5	255.4	234.5	242.8	238.7
77.5°	1846.5	1434.0	839.5	456.4	282.6	242.8	219.8	201.0	186.3	203.1	201.0
80°	1189.1	927.4	561.1	305.7	194.7	169.6	161.2	150.7	165.4	215.6	219.8
82.5°	726.4	588.3	335.0	198.9	127.7	113.0	104.7	104.7	169.6	186.3	188.4
85°	324.5	311.9	182.1	102.6	71.2	64.9	58.6	75.4	69.1	50.2	52.3
87.5°	52.3	54.4	39.8	35.6	27.2	27.2	20.9	14.7	10.5	6.3	6.3
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)