

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: P836784

Luminaire Tested: **ARCH3-70-750-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-70-750-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

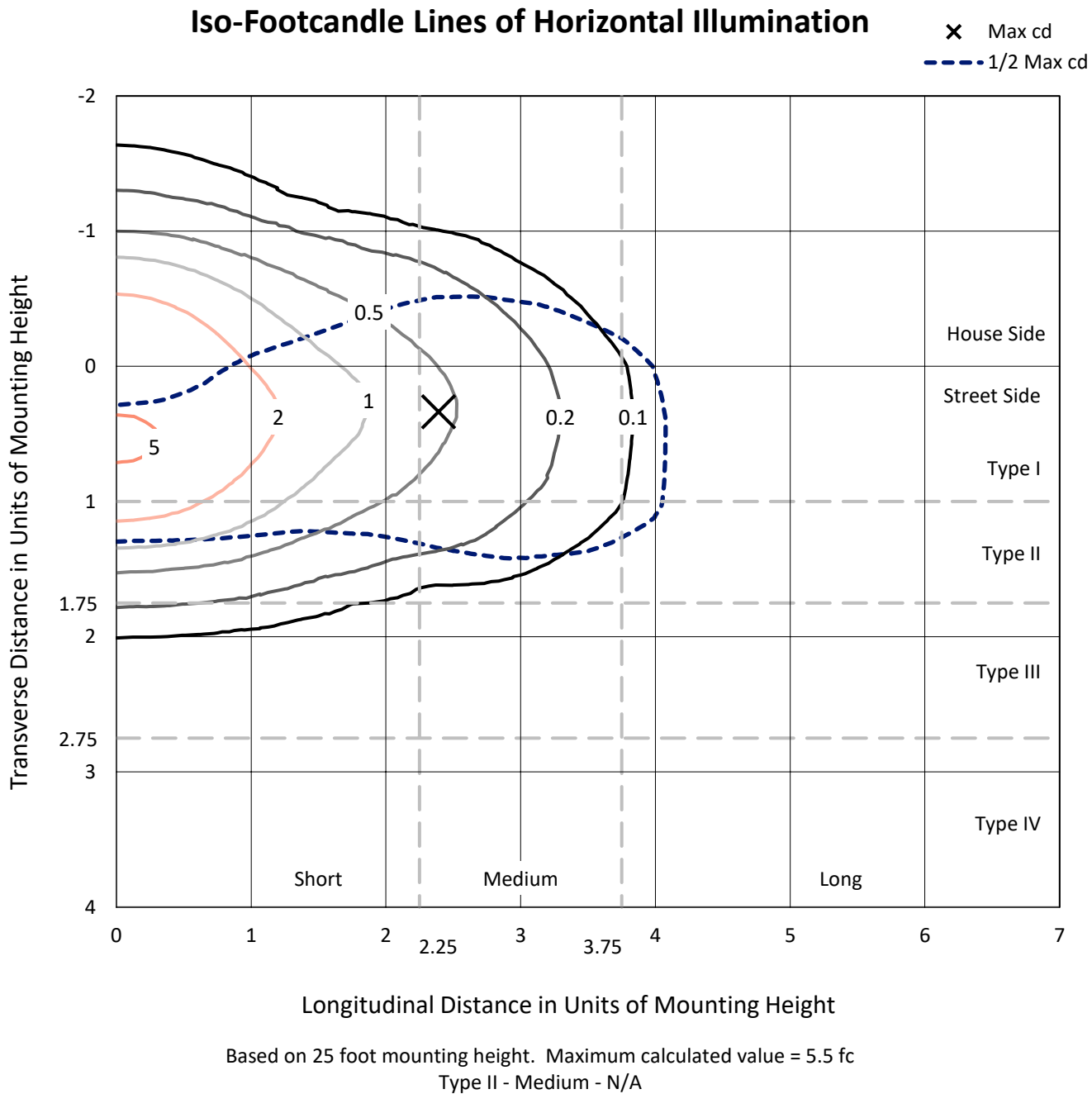
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12516 lumens
Efficiency: N/A
Efficacy: 171.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.1
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

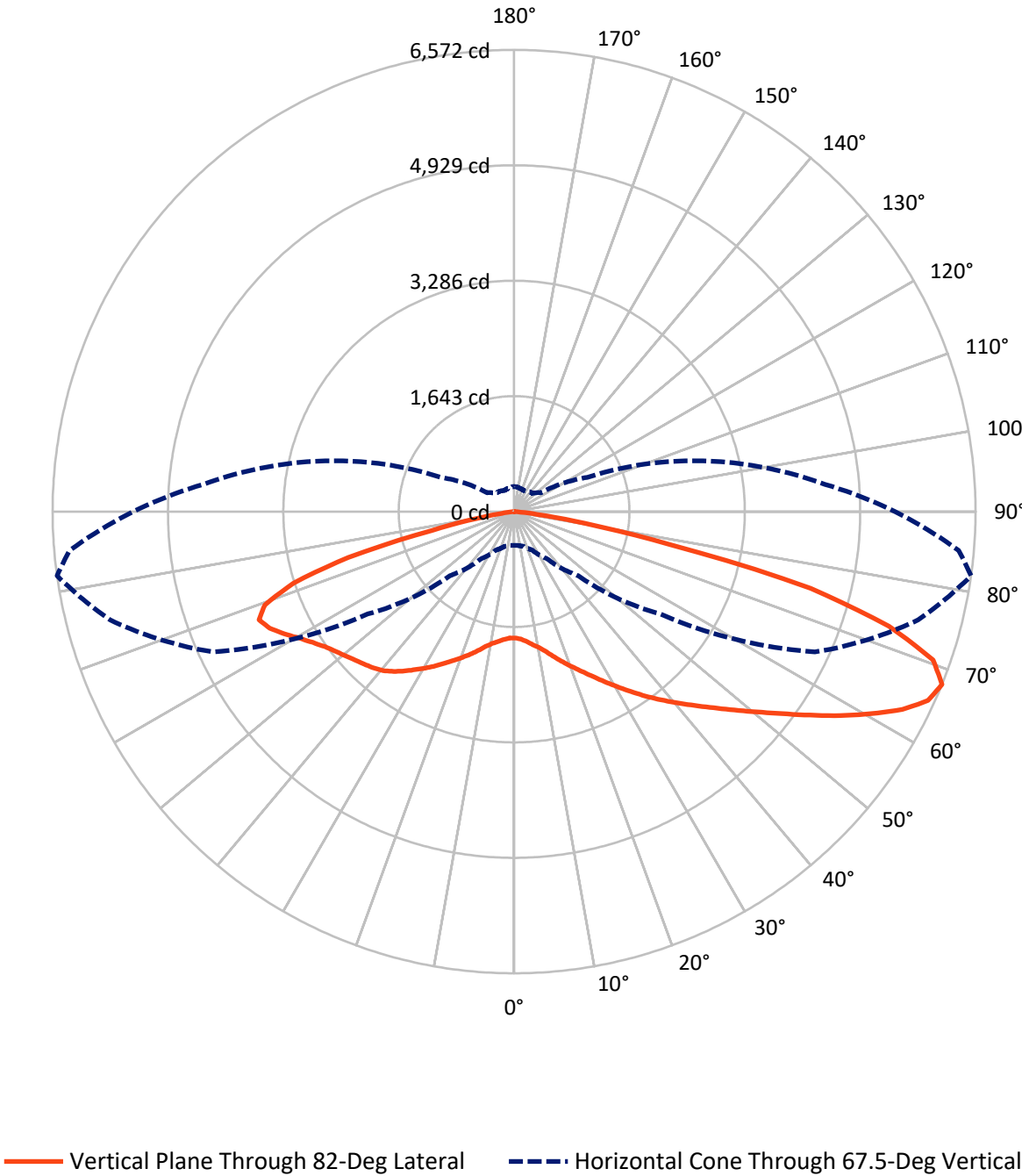


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Luminous Intensity Polar Plot



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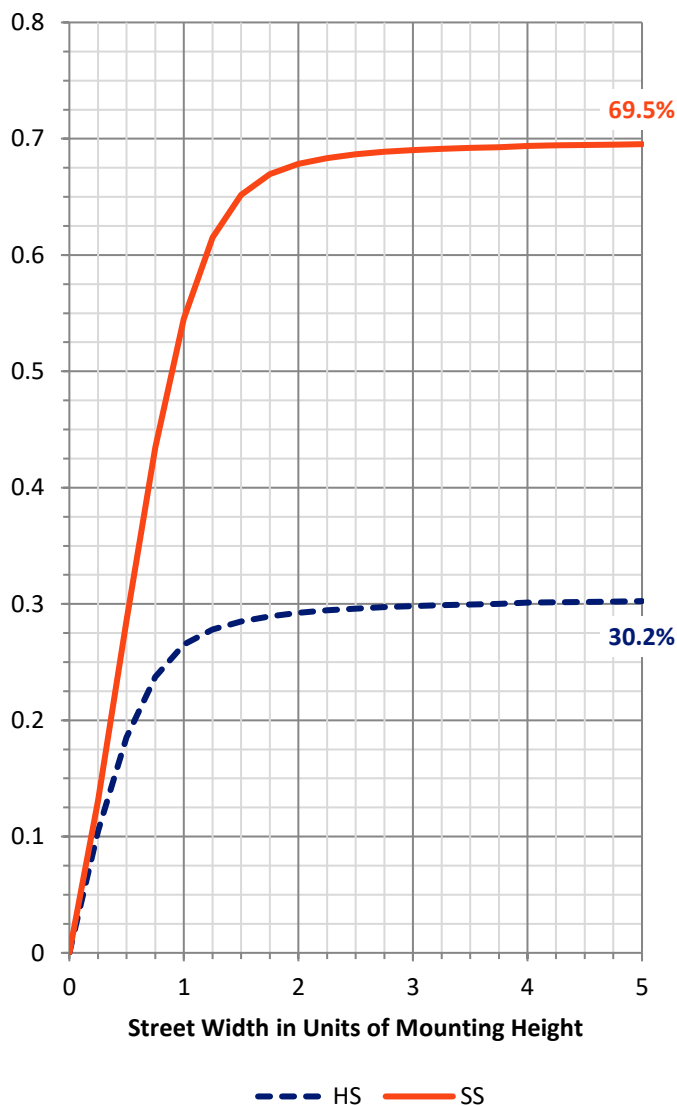
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3811.6	0.0	3811.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	8704.4	0.0	8704.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	12516.0	0.0	12516.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.9	1.5
10°-20°	669.7	5.4
20°-30°	1346.0	10.8
30°-40°	2114.4	16.9
40°-50°	2575.8	20.6
50°-60°	2433.8	19.4
60°-70°	2009.8	16.1
70°-80°	1094.4	8.7
80°-90°	86.1	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°	12516.0	100.0
0°-180°	12516.0	100.0

Coefficient of Utilization



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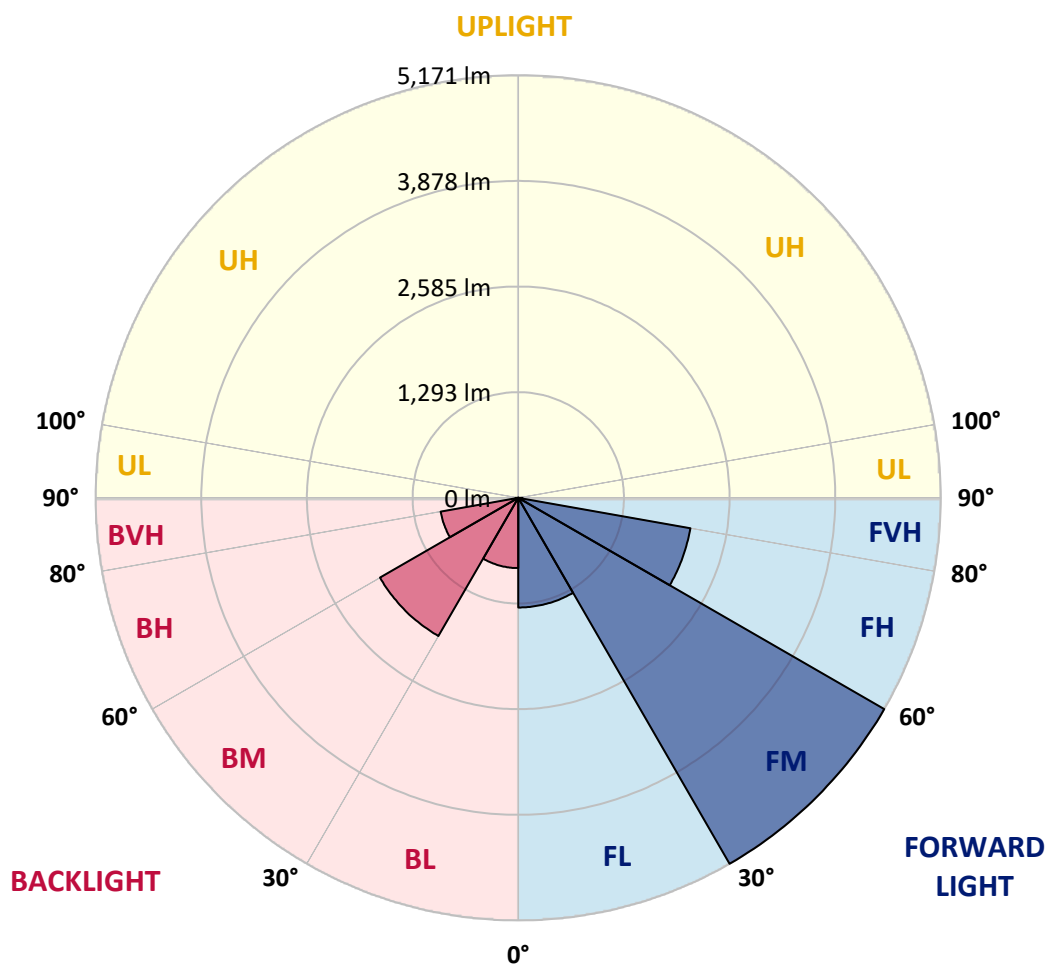
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1342.2	10.7			
FM	(30°-60°)	5170.9	41.3			
FH	(60°-80°)	2139.4	17.1			G2/5000
FVH	(80°-90°)	51.9	0.4			G1/100
BL	(0°-30°)	859.6	6.9	B2/1000		
BM	(30°-60°)	1953.2	15.6	B2/2500		
BH	(60°-80°)	964.7	7.7	B2/1000		G2/1000
BVH	(80°-90°)	34.2	0.3			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°	82°	85°
0°	1799.2	1799.2	1799.2	1799.2	1799.2	1799.2	1799.2	1799.2	1799.2	1799.2	1799.2
2.5°	1880.9	1880.9	1895.5	1895.5	1882.8	1862.8	1857.3	1835.5	1815.5	1815.5	1817.3
5°	2060.9	2059.0	2070.0	2055.4	2024.5	1984.5	1957.3	1910.0	1870.0	1857.3	1855.5
7.5°	2280.8	2278.9	2284.4	2260.8	2202.6	2137.2	2082.7	2006.3	1940.9	1913.7	1906.4
10°	2526.1	2524.3	2518.8	2478.9	2400.7	2298.9	2217.2	2111.8	2013.6	1970.0	1960.9
12.5°	2807.8	2804.2	2791.4	2733.3	2626.1	2495.2	2377.1	2240.8	2109.9	2050.0	2030.0
15°	3122.2	3116.7	3093.1	3022.2	2878.7	2713.3	2560.6	2386.2	2226.2	2148.1	2120.8
17.5°	3452.9	3452.9	3416.6	3311.2	3151.3	2945.9	2756.9	2535.2	2348.0	2251.7	2219.0
20°	3789.2	3787.3	3741.9	3614.7	3425.7	3189.4	2949.5	2706.0	2473.4	2357.1	2317.1
22.5°	4143.5	4139.9	4083.6	3938.2	3712.8	3445.7	3165.8	2875.0	2611.5	2471.6	2420.7
25°	4550.6	4545.2	4476.1	4298.0	4030.9	3729.2	3409.3	3073.1	2769.6	2598.8	2538.8
27.5°	4983.2	4975.9	4894.1	4686.9	4394.3	4030.9	3678.3	3302.1	2944.1	2740.6	2673.3
30°	5368.4	5363.0	5273.9	5061.3	4725.1	4330.7	3934.5	3531.1	3127.6	2891.4	2807.8
32.5°	5659.2	5659.2	5579.2	5370.2	5021.3	4617.9	4192.6	3747.4	3318.5	3053.1	2955.0
35°	5835.5	5840.9	5771.9	5604.7	5275.7	4888.6	4459.8	4001.8	3522.0	3225.8	3120.4
37.5°	5860.9	5879.1	5839.1	5726.4	5452.0	5114.0	4721.5	4247.1	3732.8	3400.2	3282.1
40°	5742.8	5755.5	5757.3	5713.7	5524.7	5275.7	4952.3	4507.0	3956.4	3583.8	3447.5
42.5°	5506.5	5515.6	5532.0	5544.7	5472.0	5346.6	5128.5	4748.7	4194.4	3771.0	3611.1
45°	5201.2	5199.4	5226.7	5281.2	5277.6	5306.6	5226.7	4968.6	4441.6	3983.6	3792.8
47.5°	4745.1	4736.0	4832.3	4955.9	5017.7	5154.0	5228.5	5141.3	4710.6	4218.1	4000.0
50°	4030.9	4021.8	4232.6	4523.4	4705.1	4912.3	5128.5	5244.8	4992.2	4481.6	4225.3
52.5°	3162.2	3153.1	3420.2	3929.1	4325.3	4627.0	4926.8	5268.5	5259.4	4776.0	4479.7
55°	2351.6	2344.4	2604.3	3154.9	3796.4	4296.2	4679.7	5206.7	5510.2	5114.0	4788.7
57.5°	1657.4	1653.8	1879.1	2335.3	3116.7	3892.7	4441.6	5086.7	5741.0	5481.1	5137.6
60°	1163.1	1157.6	1321.2	1673.8	2357.1	3283.9	4205.3	4926.8	5913.6	5842.8	5508.4
62.5°	783.3	779.6	895.9	1190.4	1673.8	2527.9	3847.3	4819.6	6011.8	6206.2	5882.7
65°	594.3	592.5	645.2	806.9	1184.9	1815.5	3278.5	4806.9	6024.5	6478.8	6200.8
67.5°	479.8	481.6	510.7	603.4	819.6	1290.3	2542.5	4726.9	5957.2	6571.5	6355.2
70°	392.5	392.5	405.3	467.1	605.2	870.5	1775.5	4363.4	5770.1	6329.8	6171.7
72.5°	299.9	301.7	341.7	378.0	456.2	610.6	1137.7	3611.1	5328.4	5581.1	5461.1
75°	238.1	236.3	259.9	310.8	354.4	436.2	697.9	2589.7	4534.3	4361.6	4285.3
77.5°	170.8	169.0	187.2	230.8	269.0	308.9	416.2	1306.7	2466.1	2266.2	2209.9
80°	116.3	112.7	129.0	159.9	178.1	181.7	203.5	501.6	1075.9	1014.1	1001.4
82.5°	60.0	60.0	69.1	90.9	92.7	94.5	90.9	161.7	356.2	332.6	318.0
85°	23.6	23.6	25.4	30.9	30.9	32.7	32.7	41.8	38.2	36.3	34.5
87.5°	1.8	1.8	3.6	3.6	5.5	5.5	5.5	7.3	9.1	9.1	9.1
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°	1799.2	1799.2	1799.2	1799.2	1799.2	1799.2	1799.2	1799.2	1799.2	1799.2	1799.2
2.5°	1813.7	1806.4	1782.8	1777.4	1773.7	1768.3	1770.1	1757.4	1751.9	1753.7	1746.5
5°	1846.4	1833.7	1804.6	1791.9	1788.3	1782.8	1788.3	1779.2	1770.1	1773.7	1770.1
7.5°	1891.9	1873.7	1837.3	1824.6	1822.8	1817.3	1824.6	1817.3	1810.1	1813.7	1806.4
10°	1939.1	1915.5	1875.5	1862.8	1862.8	1861.0	1868.2	1857.3	1850.1	1851.9	1848.2
12.5°	2008.2	1977.3	1933.7	1922.7	1917.3	1922.7	1924.6	1910.0	1897.3	1899.1	1893.7
15°	2091.8	2057.2	2010.0	1993.6	1990.0	1988.2	1980.9	1962.7	1946.4	1944.6	1939.1
17.5°	2182.6	2139.0	2082.7	2066.3	2050.0	2044.5	2026.3	2002.7	1977.3	1977.3	1970.0
20°	2269.9	2220.8	2153.6	2129.9	2106.3	2084.5	2053.6	2015.4	1982.7	1977.3	1970.0
22.5°	2364.4	2306.2	2228.1	2193.5	2151.7	2108.1	2055.4	2004.5	1962.7	1953.6	1948.2
25°	2469.8	2397.1	2304.4	2253.5	2186.3	2119.0	2040.9	1975.5	1926.4	1911.8	1908.2
27.5°	2586.1	2498.8	2386.2	2311.7	2213.5	2108.1	2008.2	1930.0	1870.0	1851.9	1846.4
30°	2704.2	2600.6	2460.7	2351.6	2213.5	2073.6	1948.2	1857.3	1788.3	1762.8	1759.2
32.5°	2822.3	2706.0	2527.9	2373.4	2191.7	2015.4	1870.0	1762.8	1684.7	1653.8	1661.1
35°	2964.1	2822.3	2589.7	2382.5	2155.4	1944.6	1781.0	1655.6	1575.6	1548.4	1553.8
37.5°	3111.3	2938.6	2638.8	2375.3	2104.5	1864.6	1681.0	1559.3	1459.3	1412.1	1417.5
40°	3238.5	3044.0	2673.3	2349.8	2039.1	1773.7	1582.9	1423.0	1284.9	1239.4	1234.0
42.5°	3358.4	3122.2	2691.5	2311.7	1964.5	1668.3	1443.0	1237.6	1099.5	1043.2	1045.0
45°	3483.8	3198.5	2684.2	2260.8	1871.9	1544.7	1263.1	1055.9	934.1	883.2	885.0
47.5°	3627.4	3280.3	2676.9	2206.3	1759.2	1384.8	1090.4	895.9	790.5	754.2	750.6
50°	3780.1	3371.2	2667.9	2139.0	1633.8	1206.7	919.6	746.9	657.9	634.3	628.8
52.5°	3952.7	3469.3	2662.4	2059.0	1483.0	1017.7	766.9	616.1	556.1	539.8	537.9
55°	4159.9	3583.8	2669.7	1962.7	1301.2	839.6	637.9	530.7	490.7	481.6	479.8
57.5°	4412.5	3731.0	2691.5	1850.1	1110.4	685.1	543.4	478.0	452.5	445.2	445.2
60°	4686.9	3898.2	2731.5	1722.8	919.6	565.2	481.6	436.2	425.3	434.3	434.3
62.5°	4983.2	4094.5	2802.3	1568.4	741.5	478.0	432.5	401.6	394.4	412.5	414.4
65°	5257.6	4285.3	2847.8	1383.0	588.8	414.4	394.4	367.1	370.7	388.9	387.1
67.5°	5426.6	4443.4	2784.2	1150.4	467.1	367.1	354.4	330.8	339.8	354.4	356.2
70°	5323.0	4354.4	2469.8	868.7	365.3	319.9	310.8	296.2	303.5	321.7	328.9
72.5°	4816.0	3900.0	1920.9	587.0	294.4	269.0	272.6	265.3	274.4	290.8	307.1
75°	3909.1	2947.7	1288.5	376.2	232.6	229.0	234.4	229.0	232.6	249.0	258.1
77.5°	2040.9	1437.5	641.5	234.4	172.6	178.1	187.2	189.0	199.9	203.5	207.2
80°	952.3	647.0	267.1	130.8	114.5	125.4	143.6	145.4	149.0	154.5	156.3
82.5°	310.8	194.5	123.6	70.9	65.4	70.9	92.7	110.9	112.7	123.6	123.6
85°	32.7	20.0	27.3	29.1	25.4	30.9	41.8	40.0	18.2	10.9	10.9
87.5°	9.1	7.3	9.1	9.1	7.3	7.3	5.5	1.8	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)