

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: P836757

Luminaire Tested: **ARCH3-70-730-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836757
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: ARCH3-70-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

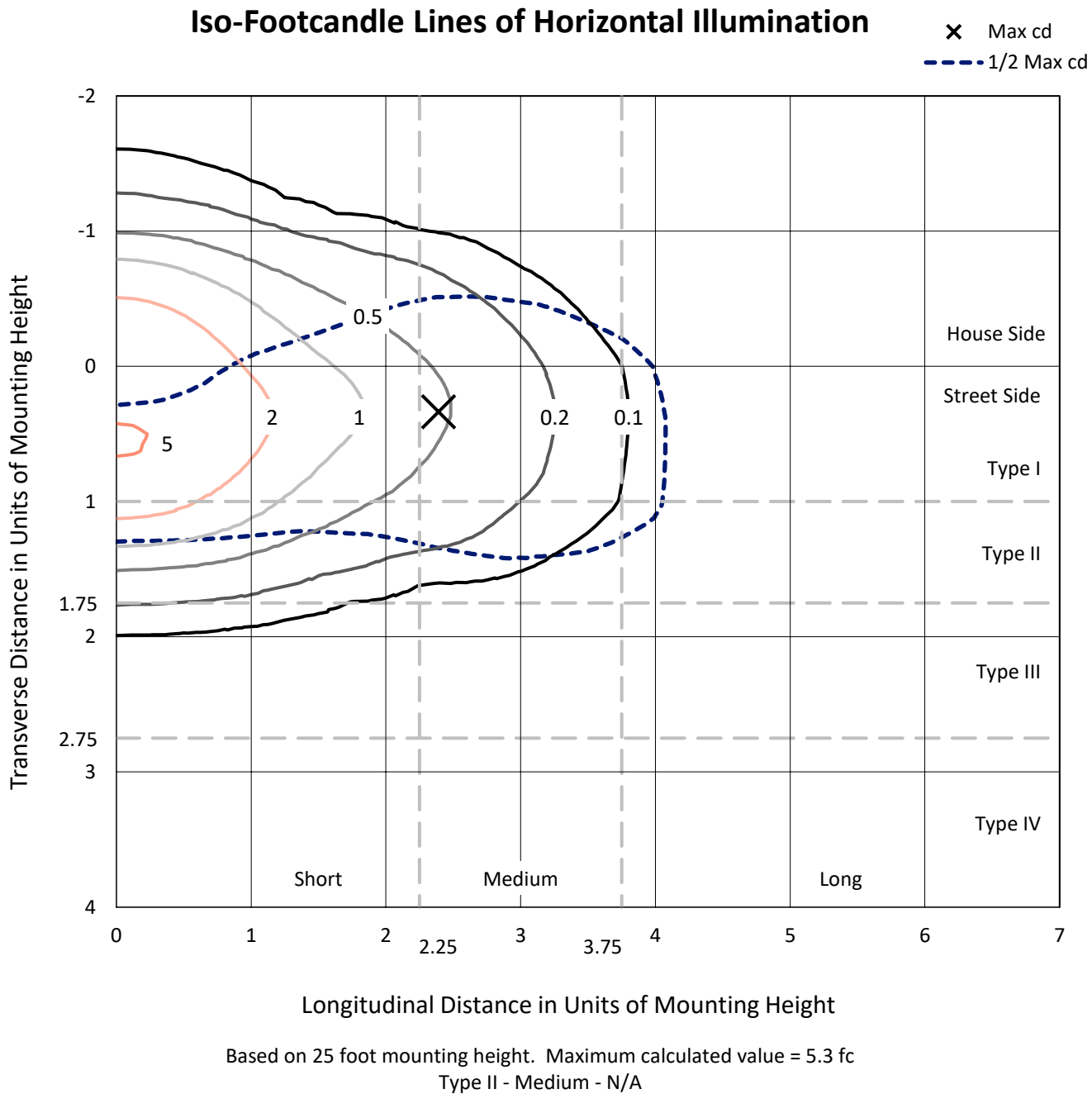
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11920 lumens
Efficiency: N/A
Efficacy: 163.1 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

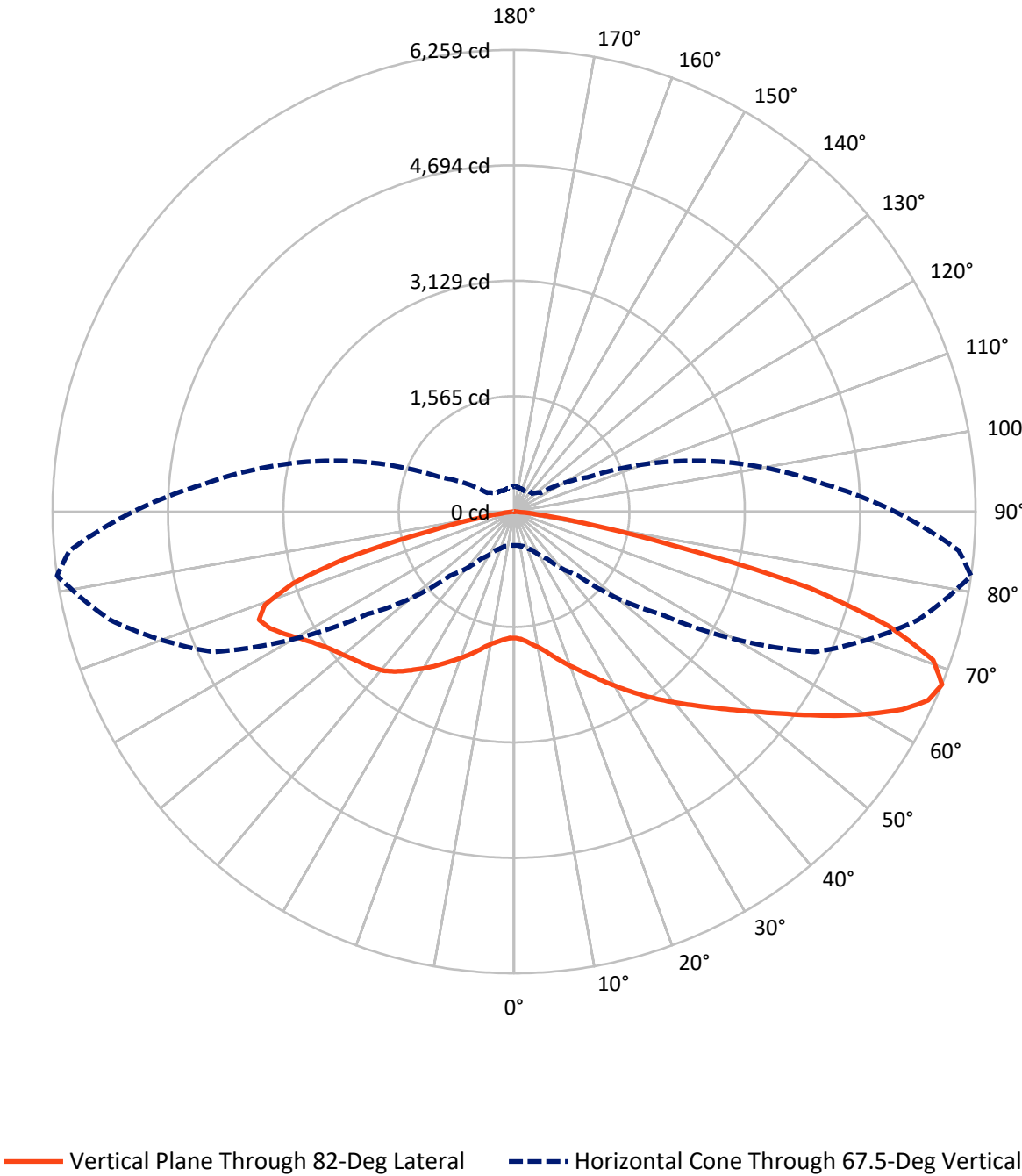


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Luminous Intensity Polar Plot



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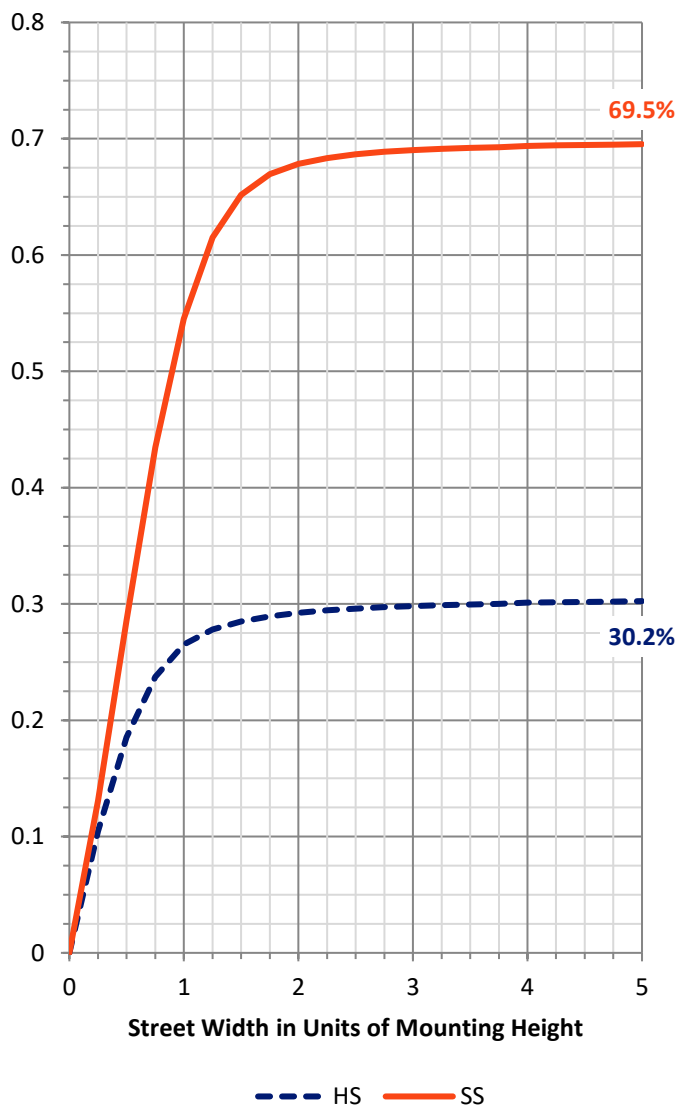
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3630.1	0.0	3630.1
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	8289.9	0.0	8289.9
	% Fixture	69.5	0.0	69.5
Total	Lumens	11920.0	0.0	11920.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.1	1.5
10°-20°	637.9	5.4
20°-30°	1281.9	10.8
30°-40°	2013.7	16.9
40°-50°	2453.1	20.6
50°-60°	2317.9	19.4
60°-70°	1914.1	16.1
70°-80°	1042.3	8.7
80°-90°	81.9	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°	11920.0	100.0
0°-180°	11920.0	100.0

Coefficient of Utilization



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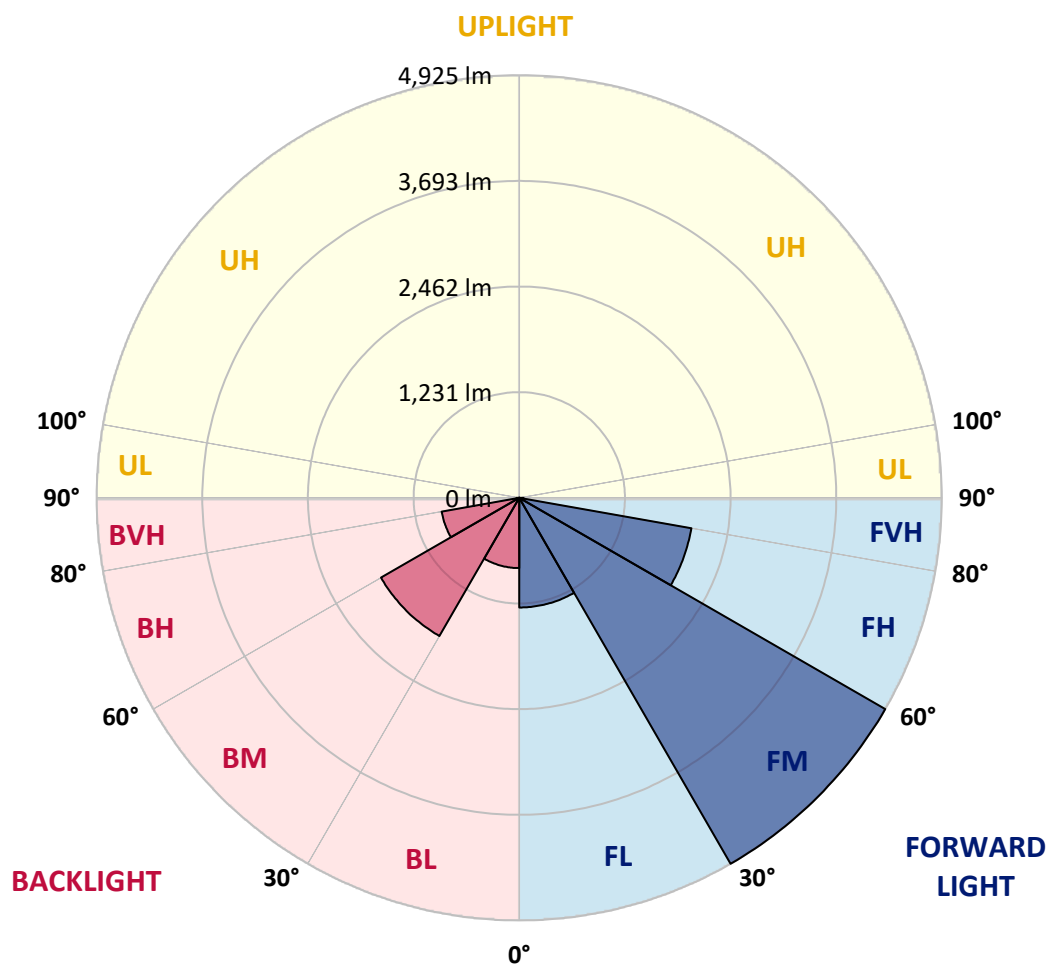
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1278.3	10.7			
FM	(30°-60°)	4924.7	41.3			
FH	(60°-80°)	2037.6	17.1			G2/5000
FVH	(80°-90°)	49.4	0.4			G1/100
BL	(0°-30°)	818.6	6.9	B2/1000		
BM	(30°-60°)	1860.1	15.6	B2/2500		
BH	(60°-80°)	918.8	7.7	B2/1000		G2/1000
BVH	(80°-90°)	32.6	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°	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5
2.5°	1791.4	1791.4	1805.2	1805.2	1793.1	1774.1	1768.9	1748.1	1729.1	1729.1	1730.8
5°	1962.7	1961.0	1971.4	1957.5	1928.1	1890.0	1864.1	1819.1	1781.0	1768.9	1767.1
7.5°	2172.2	2170.4	2175.6	2153.1	2097.7	2035.4	1983.5	1910.8	1848.5	1822.5	1815.6
10°	2405.8	2404.1	2398.9	2360.8	2286.4	2189.5	2111.6	2011.2	1917.7	1876.2	1867.5
12.5°	2674.1	2670.6	2658.5	2603.1	2501.0	2376.4	2263.9	2134.1	2009.5	1952.3	1933.3
15°	2973.5	2968.3	2945.8	2878.3	2741.6	2584.1	2438.7	2272.5	2120.2	2045.8	2019.8
17.5°	3288.5	3288.5	3253.9	3153.5	3001.2	2805.6	2625.6	2414.5	2236.2	2144.5	2113.3
20°	3608.7	3607.0	3563.7	3442.6	3262.6	3037.6	2809.1	2577.2	2355.6	2244.9	2206.8
22.5°	3946.2	3942.8	3889.1	3750.6	3536.0	3281.6	3015.1	2738.1	2487.2	2353.9	2305.4
25°	4333.9	4328.7	4263.0	4093.3	3838.9	3551.6	3247.0	2926.8	2637.7	2475.0	2417.9
27.5°	4745.9	4738.9	4661.0	4463.7	4185.1	3838.9	3503.1	3144.9	2803.9	2610.0	2546.0
30°	5112.8	5107.6	5022.8	4820.3	4500.1	4124.5	3747.2	3362.9	2978.7	2753.7	2674.1
32.5°	5389.7	5389.7	5313.6	5114.5	4782.2	4398.0	3993.0	3568.9	3160.4	2907.7	2814.3
35°	5557.6	5562.8	5497.0	5337.8	5024.5	4655.9	4247.4	3811.2	3354.3	3072.2	2971.8
37.5°	5581.8	5599.1	5561.1	5453.8	5192.4	4870.5	4496.6	4044.9	3555.1	3238.3	3125.8
40°	5469.3	5481.4	5483.2	5441.6	5261.6	5024.5	4716.4	4292.4	3768.0	3413.1	3283.3
42.5°	5244.3	5253.0	5268.6	5280.7	5211.4	5092.0	4884.3	4522.6	3994.7	3591.4	3439.1
45°	4953.6	4951.8	4977.8	5029.7	5026.2	5053.9	4977.8	4732.0	4230.1	3793.9	3612.2
47.5°	4519.1	4510.5	4602.2	4719.9	4778.7	4908.6	4979.5	4896.4	4486.2	4017.2	3809.5
50°	3838.9	3830.3	4031.0	4308.0	4481.0	4678.4	4884.3	4995.1	4754.5	4268.2	4024.1
52.5°	3011.6	3002.9	3257.4	3742.0	4119.3	4406.6	4692.2	5017.6	5008.9	4548.5	4266.4
55°	2239.7	2232.7	2480.2	3004.7	3615.6	4091.6	4456.8	4958.7	5247.8	4870.5	4560.7
57.5°	1578.5	1575.0	1789.6	2224.1	2968.3	3707.4	4230.1	4844.5	5467.6	5220.1	4893.0
60°	1107.7	1102.5	1258.3	1594.1	2244.9	3127.6	4005.1	4692.2	5632.0	5564.5	5246.1
62.5°	746.0	742.5	853.3	1133.7	1594.1	2407.5	3664.1	4590.1	5725.5	5910.7	5602.6
65°	566.0	564.2	614.4	768.5	1128.5	1729.1	3122.4	4578.0	5737.6	6170.3	5905.5
67.5°	456.9	458.7	486.4	574.6	780.6	1228.9	2421.4	4501.8	5673.6	6258.6	6052.6
70°	373.9	373.9	386.0	444.8	576.4	829.1	1691.0	4155.7	5495.3	6028.4	5877.8
72.5°	285.6	287.3	325.4	360.0	434.4	581.5	1083.5	3439.1	5074.7	5315.3	5201.1
75°	226.7	225.0	247.5	296.0	337.5	415.4	664.6	2466.4	4318.4	4153.9	4081.2
77.5°	162.7	161.0	178.3	219.8	256.2	294.2	396.4	1244.4	2348.7	2158.3	2104.7
80°	110.8	107.3	122.9	152.3	169.6	173.1	193.8	477.7	1024.6	965.8	953.7
82.5°	57.1	57.1	65.8	86.5	88.3	90.0	86.5	154.0	339.2	316.7	302.9
85°	22.5	22.5	24.2	29.4	29.4	31.2	31.2	39.8	36.3	34.6	32.9
87.5°	1.7	1.7	3.5	3.5	5.2	5.2	5.2	6.9	8.7	8.7	8.7
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°	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5
2.5°	1727.3	1720.4	1697.9	1692.7	1689.3	1684.1	1685.8	1673.7	1668.5	1670.2	1663.3
5°	1758.5	1746.4	1718.7	1706.6	1703.1	1697.9	1703.1	1694.5	1685.8	1689.3	1685.8
7.5°	1801.8	1784.5	1749.8	1737.7	1736.0	1730.8	1737.7	1730.8	1723.9	1727.3	1720.4
10°	1846.8	1824.3	1786.2	1774.1	1774.1	1772.3	1779.3	1768.9	1762.0	1763.7	1760.2
12.5°	1912.5	1883.1	1841.6	1831.2	1826.0	1831.2	1832.9	1819.1	1807.0	1808.7	1803.5
15°	1992.2	1959.3	1914.3	1898.7	1895.2	1893.5	1886.6	1869.3	1853.7	1852.0	1846.8
17.5°	2078.7	2037.2	1983.5	1967.9	1952.3	1947.2	1929.8	1907.3	1883.1	1883.1	1876.2
20°	2161.8	2115.0	2051.0	2028.5	2006.0	1985.2	1955.8	1919.5	1888.3	1883.1	1876.2
22.5°	2251.8	2196.4	2122.0	2089.1	2049.3	2007.7	1957.5	1909.1	1869.3	1860.6	1855.4
25°	2352.2	2282.9	2194.7	2146.2	2082.2	2018.1	1943.7	1881.4	1834.6	1820.8	1817.3
27.5°	2462.9	2379.9	2272.5	2201.6	2108.1	2007.7	1912.5	1838.1	1781.0	1763.7	1758.5
30°	2575.4	2476.8	2343.5	2239.7	2108.1	1974.8	1855.4	1768.9	1703.1	1678.9	1675.4
32.5°	2687.9	2577.2	2407.5	2260.4	2087.3	1919.5	1781.0	1678.9	1604.5	1575.0	1582.0
35°	2822.9	2687.9	2466.4	2269.1	2052.7	1852.0	1696.2	1576.8	1500.6	1474.6	1479.8
37.5°	2963.1	2798.7	2513.1	2262.2	2004.3	1775.8	1601.0	1485.0	1389.8	1344.8	1350.0
40°	3084.3	2899.1	2546.0	2237.9	1942.0	1689.3	1507.5	1355.2	1223.7	1180.4	1175.2
42.5°	3198.5	2973.5	2563.3	2201.6	1871.0	1588.9	1374.3	1178.7	1047.1	993.5	995.2
45°	3317.9	3046.2	2556.4	2153.1	1782.7	1471.2	1202.9	1005.6	889.6	841.2	842.9
47.5°	3454.7	3124.1	2549.5	2101.2	1675.4	1318.9	1038.5	853.3	752.9	718.3	714.8
50°	3600.1	3210.6	2540.8	2037.2	1556.0	1149.3	875.8	711.4	626.6	604.0	598.9
52.5°	3764.5	3304.1	2535.6	1961.0	1412.3	969.2	730.4	586.7	529.6	514.0	512.3
55°	3961.8	3413.1	2542.5	1869.3	1239.3	799.6	607.5	505.4	467.3	458.7	456.9
57.5°	4202.4	3553.3	2563.3	1762.0	1057.5	652.5	517.5	455.2	431.0	424.0	424.0
60°	4463.7	3712.6	2601.4	1640.8	875.8	538.3	458.7	415.4	405.0	413.7	413.7
62.5°	4745.9	3899.5	2668.9	1493.7	706.2	455.2	411.9	382.5	375.6	392.9	394.6
65°	5007.2	4081.2	2712.2	1317.1	560.8	394.6	375.6	349.6	353.1	370.4	368.7
67.5°	5168.2	4231.8	2651.6	1095.6	444.8	349.6	337.5	315.0	323.7	337.5	339.2
70°	5069.5	4147.0	2352.2	827.3	347.9	304.6	296.0	282.1	289.0	306.4	313.3
72.5°	4586.6	3714.3	1829.5	559.0	280.4	256.2	259.6	252.7	261.4	276.9	292.5
75°	3723.0	2807.4	1227.1	358.3	221.5	218.1	223.3	218.1	221.5	237.1	245.8
77.5°	1943.7	1369.1	611.0	223.3	164.4	169.6	178.3	180.0	190.4	193.8	197.3
80°	906.9	616.2	254.4	124.6	109.0	119.4	136.7	138.5	141.9	147.1	148.8
82.5°	296.0	185.2	117.7	67.5	62.3	67.5	88.3	105.6	107.3	117.7	117.7
85°	31.2	19.0	26.0	27.7	24.2	29.4	39.8	38.1	17.3	10.4	10.4
87.5°	8.7	6.9	8.7	8.7	6.9	6.9	5.2	1.7	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)