

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: P842604

Luminaire Tested: **ARCH4-70-730-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842604
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: ARCH4-70-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12882 lumens
Efficiency: N/A
Efficacy: 174.6 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

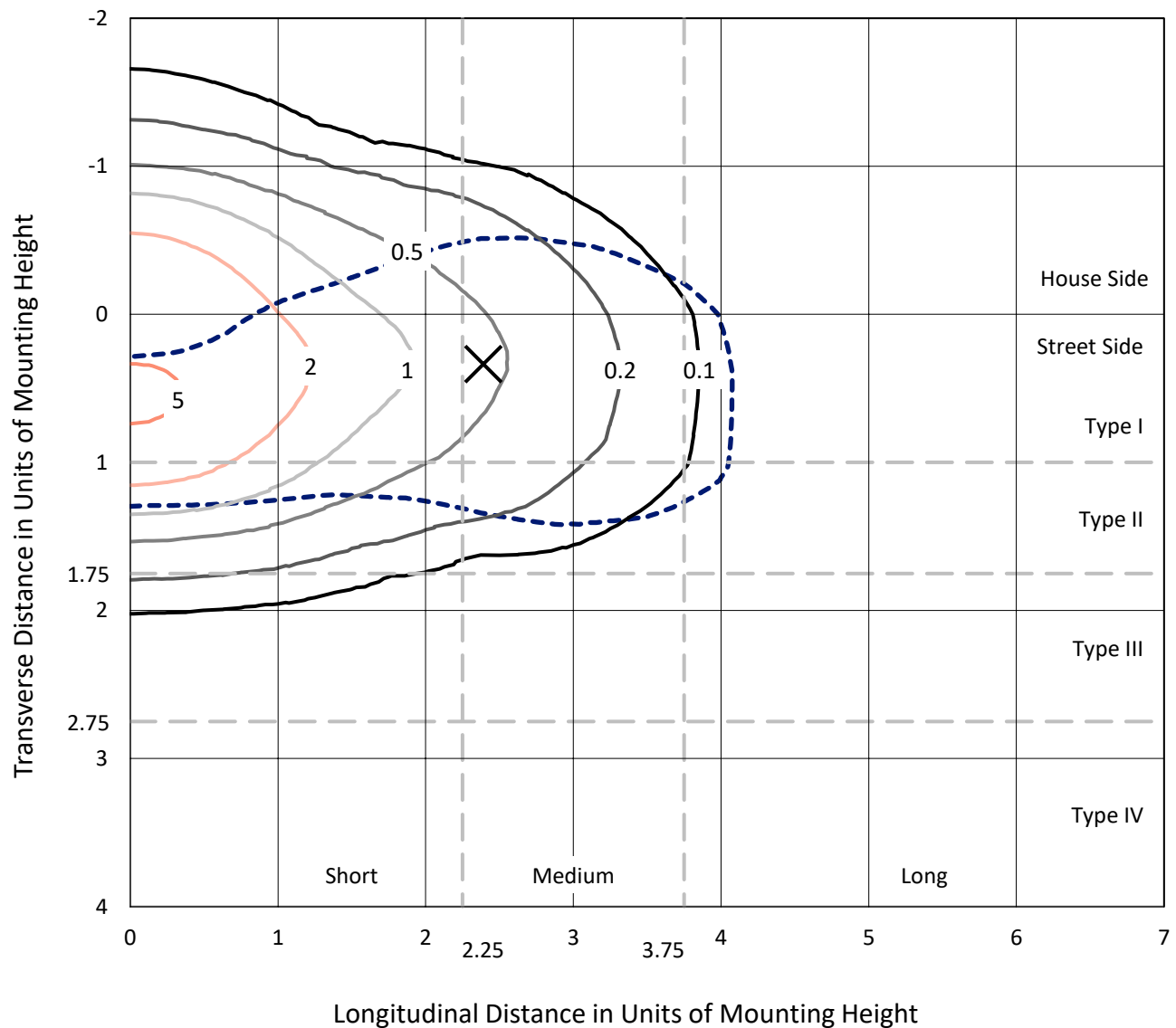


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Iso-Footcandle Lines of Horizontal Illumination

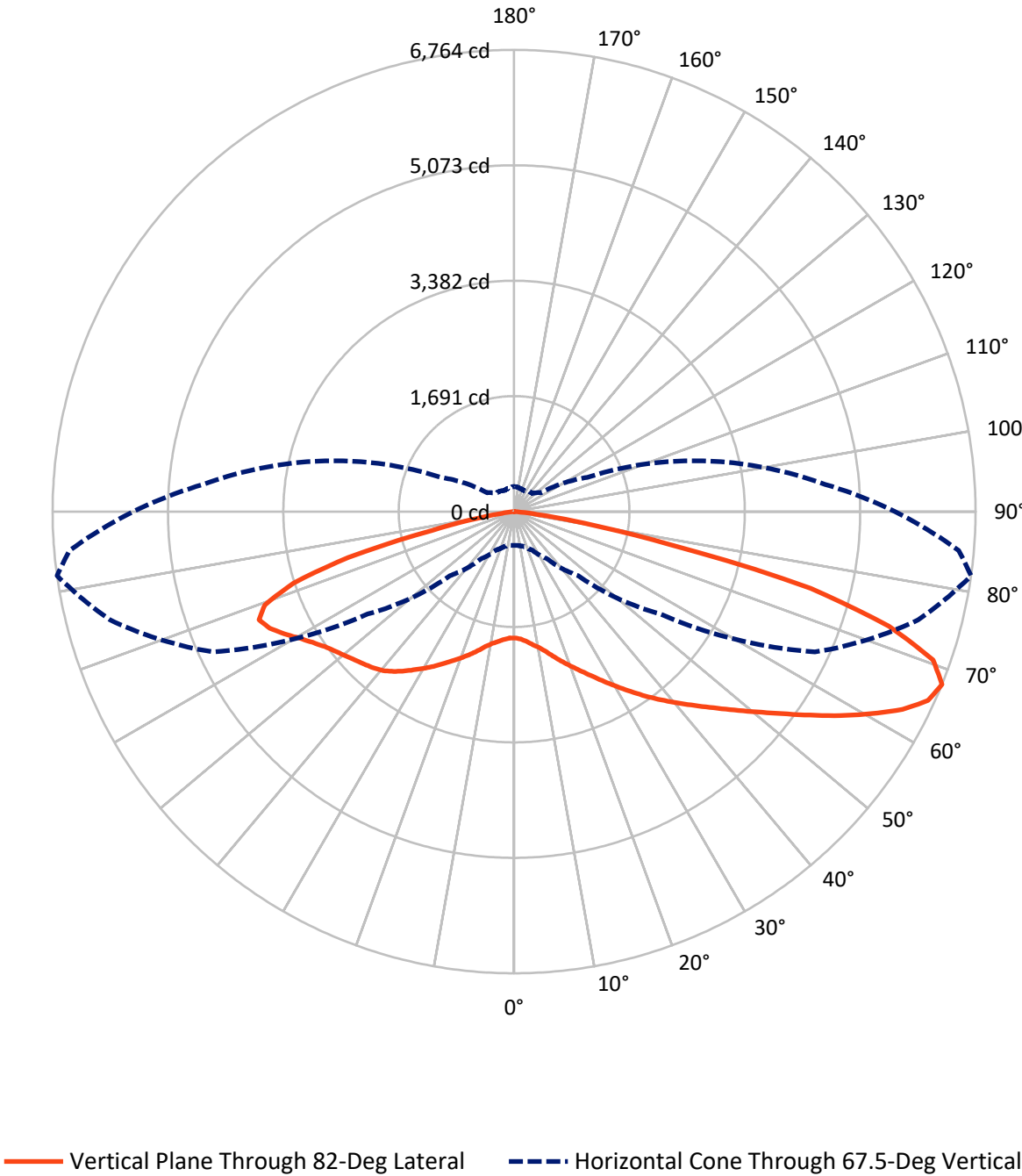
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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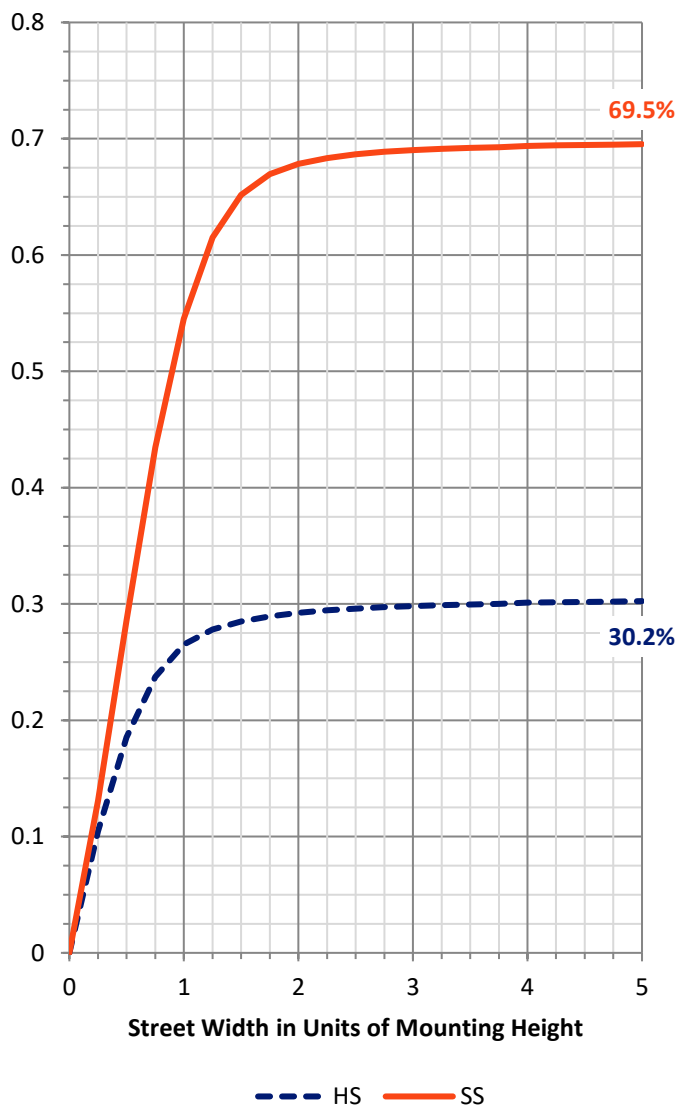
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3923.1	0.0	3923.1
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	8958.9	0.0	8958.9
	% Fixture	69.5	0.0	69.5
Total	Lumens	12882.0	0.0	12882.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.4	1.5
10°-20°	689.3	5.4
20°-30°	1385.4	10.8
30°-40°	2176.3	16.9
40°-50°	2651.1	20.6
50°-60°	2505.0	19.4
60°-70°	2068.5	16.1
70°-80°	1126.4	8.7
80°-90°	88.6	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°	12882.0	100.0
0°-180°	12882.0	100.0

Coefficient of Utilization



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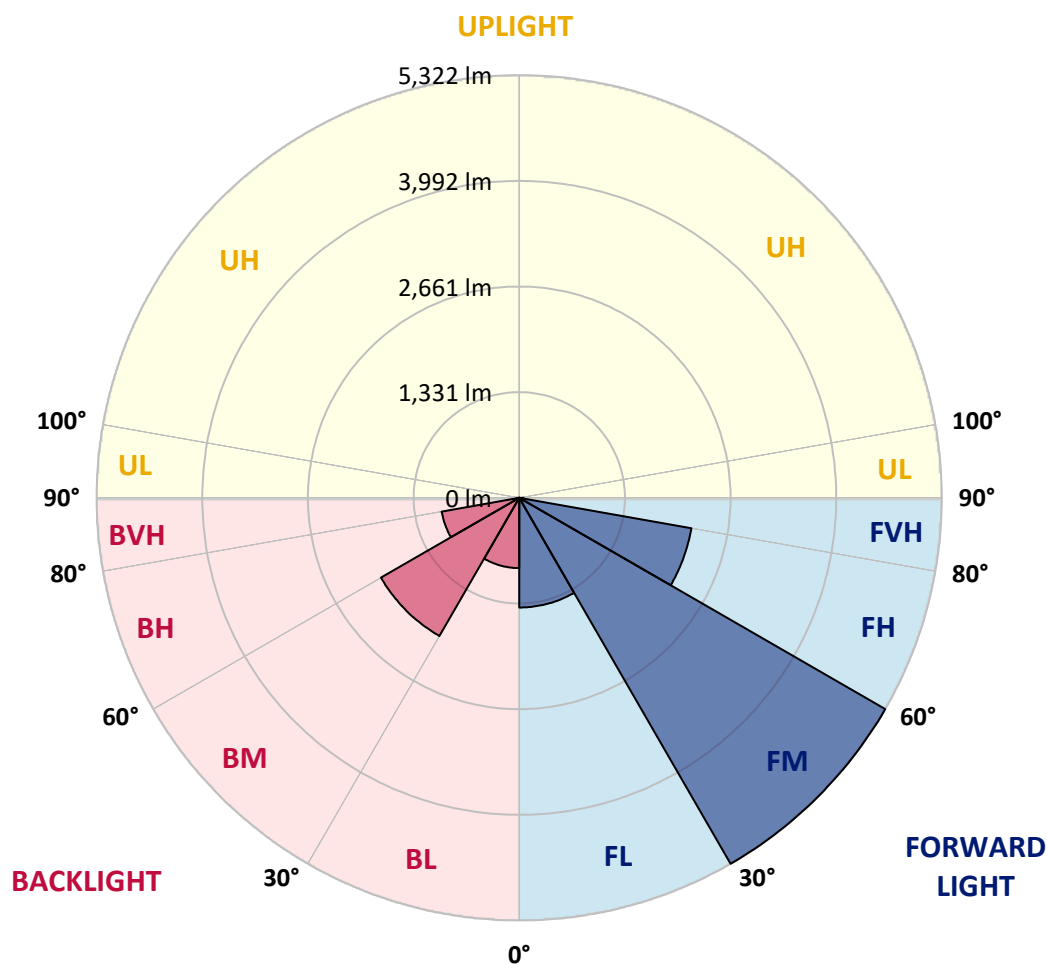
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1381.4	10.7			
FM	(30°-60°)	5322.1	41.3			
FH	(60°-80°)	2202.0	17.1			G2/5000
FVH	(80°-90°)	53.4	0.4			G1/100
BL	(0°-30°)	884.7	6.9	B2/1000		
BM	(30°-60°)	2010.3	15.6	B2/2500		
BH	(60°-80°)	993.0	7.7	B2/1000		G2/1000
BVH	(80°-90°)	35.2	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°	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8
2.5°	1936.0	1936.0	1950.9	1950.9	1937.8	1917.2	1911.6	1889.2	1868.6	1868.6	1870.5
5°	2121.1	2119.3	2130.5	2115.5	2083.7	2042.6	2014.5	1965.9	1924.7	1911.6	1909.8
7.5°	2347.5	2345.6	2351.2	2326.9	2267.0	2199.7	2143.6	2065.0	1997.7	1969.6	1962.1
10°	2600.0	2598.1	2592.5	2551.3	2470.9	2366.2	2282.0	2173.5	2072.5	2027.6	2018.3
12.5°	2889.9	2886.2	2873.1	2813.2	2702.9	2568.2	2446.6	2306.3	2171.6	2109.9	2089.3
15°	3213.5	3207.9	3183.6	3110.6	2962.8	2792.6	2635.5	2455.9	2291.3	2210.9	2182.9
17.5°	3553.9	3553.9	3516.5	3408.0	3243.4	3032.1	2837.5	2609.3	2416.7	2317.5	2283.9
20°	3900.0	3898.1	3851.3	3720.4	3525.9	3282.7	3035.8	2785.2	2545.7	2426.0	2384.9
22.5°	4264.7	4261.0	4203.0	4053.3	3821.4	3546.4	3258.4	2959.1	2687.9	2543.9	2491.5
25°	4683.7	4678.1	4607.0	4423.7	4148.7	3838.2	3509.0	3163.0	2850.6	2674.8	2613.1
27.5°	5128.9	5121.4	5037.2	4824.0	4522.8	4148.7	3785.9	3398.7	3030.2	2820.7	2751.5
30°	5525.4	5519.8	5428.1	5209.3	4863.3	4457.4	4049.6	3634.4	3219.1	2975.9	2889.9
32.5°	5824.7	5824.7	5742.4	5527.3	5168.2	4752.9	4315.2	3856.9	3415.5	3142.4	3041.4
35°	6006.1	6011.7	5940.7	5768.6	5430.0	5031.6	4590.2	4118.8	3625.0	3320.1	3211.6
37.5°	6032.3	6051.0	6009.9	5893.9	5611.5	5263.5	4859.5	4371.3	3842.0	3499.7	3378.1
40°	5910.7	5923.8	5925.7	5880.8	5686.3	5430.0	5097.1	4638.8	4072.0	3688.6	3548.3
42.5°	5667.6	5676.9	5693.8	5706.9	5632.0	5503.0	5278.5	4887.6	4317.1	3881.3	3716.7
45°	5353.3	5351.5	5379.5	5435.6	5431.9	5461.8	5379.5	5113.9	4571.5	4100.1	3903.7
47.5°	4883.8	4874.5	4973.6	5100.8	5164.4	5304.7	5381.4	5291.6	4848.3	4341.4	4116.9
50°	4148.7	4139.4	4356.4	4655.6	4842.7	5055.9	5278.5	5398.2	5138.2	4612.6	4348.9
52.5°	3254.6	3245.3	3520.3	4044.0	4451.8	4762.3	5070.9	5422.5	5413.2	4915.6	4610.7
55°	2420.4	2412.9	2680.4	3247.2	3907.4	4421.8	4816.5	5358.9	5671.3	5263.5	4928.7
57.5°	1705.9	1702.1	1934.1	2403.6	3207.9	4006.6	4571.5	5235.5	5908.9	5641.4	5287.9
60°	1197.1	1191.5	1359.8	1722.7	2426.0	3380.0	4328.3	5070.9	6086.6	6013.6	5669.4
62.5°	806.2	802.4	922.1	1225.2	1722.7	2601.8	3959.8	4960.5	6187.6	6387.7	6054.8
65°	611.6	609.8	664.0	830.5	1219.6	1868.6	3374.4	4947.4	6200.7	6668.3	6382.1
67.5°	493.8	495.7	525.6	621.0	843.6	1328.0	2616.8	4865.1	6131.5	6763.7	6541.1
70°	404.0	404.0	417.1	480.7	622.9	896.0	1827.5	4491.0	5938.8	6514.9	6352.2
72.5°	308.6	310.5	351.7	389.1	469.5	628.5	1170.9	3716.7	5484.3	5744.3	5620.8
75°	245.0	243.2	267.5	319.9	364.7	448.9	718.3	2665.4	4666.9	4489.2	4410.6
77.5°	175.8	174.0	192.7	237.6	276.8	318.0	428.3	1344.9	2538.2	2332.5	2274.5
80°	119.7	116.0	132.8	164.6	183.3	187.0	209.5	516.3	1107.3	1043.7	1030.6
82.5°	61.7	61.7	71.1	93.5	95.4	97.3	93.5	166.5	366.6	342.3	327.3
85°	24.3	24.3	26.2	31.8	31.8	33.7	33.7	43.0	39.3	37.4	35.5
87.5°	1.9	1.9	3.7	3.7	5.6	5.6	5.6	7.5	9.4	9.4	9.4
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°	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8
2.5°	1866.7	1859.3	1834.9	1829.3	1825.6	1820.0	1821.9	1808.8	1803.1	1805.0	1797.5
5°	1900.4	1887.3	1857.4	1844.3	1840.6	1834.9	1840.6	1831.2	1821.9	1825.6	1821.9
7.5°	1947.2	1928.5	1891.1	1878.0	1876.1	1870.5	1878.0	1870.5	1863.0	1866.7	1859.3
10°	1995.8	1971.5	1930.3	1917.2	1917.2	1915.4	1922.9	1911.6	1904.2	1906.0	1902.3
12.5°	2066.9	2035.1	1990.2	1979.0	1973.4	1979.0	1980.8	1965.9	1952.8	1954.7	1949.0
15°	2152.9	2117.4	2068.8	2051.9	2048.2	2046.3	2038.8	2020.1	2003.3	2001.4	1995.8
17.5°	2246.5	2201.6	2143.6	2126.7	2109.9	2104.3	2085.6	2061.3	2035.1	2035.1	2027.6
20°	2336.2	2285.7	2216.5	2192.2	2167.9	2145.4	2113.6	2074.4	2040.7	2035.1	2027.6
22.5°	2433.5	2373.6	2293.2	2257.7	2214.7	2169.8	2115.5	2063.1	2020.1	2010.8	2005.2
25°	2542.0	2467.2	2371.8	2319.4	2250.2	2181.0	2100.6	2033.2	1982.7	1967.8	1964.0
27.5°	2661.7	2571.9	2455.9	2379.3	2278.3	2169.8	2066.9	1986.5	1924.7	1906.0	1900.4
30°	2783.3	2676.7	2532.6	2420.4	2278.3	2134.2	2005.2	1911.6	1840.6	1814.4	1810.6
32.5°	2904.9	2785.2	2601.8	2442.9	2255.8	2074.4	1924.7	1814.4	1733.9	1702.1	1709.6
35°	3050.8	2904.9	2665.4	2452.2	2218.4	2001.4	1833.1	1704.0	1621.7	1593.7	1599.3
37.5°	3202.3	3024.6	2715.9	2444.7	2166.0	1919.1	1730.2	1604.9	1502.0	1453.4	1459.0
40°	3333.2	3133.1	2751.5	2418.5	2098.7	1825.6	1629.2	1464.6	1322.4	1275.7	1270.1
42.5°	3456.7	3213.5	2770.2	2379.3	2022.0	1717.1	1485.2	1273.8	1131.6	1073.7	1075.5
45°	3585.7	3292.1	2762.7	2326.9	1926.6	1589.9	1300.0	1086.8	961.4	909.1	910.9
47.5°	3733.5	3376.2	2755.2	2270.8	1810.6	1425.3	1122.3	922.1	813.7	776.3	772.5
50°	3890.6	3469.8	2745.9	2201.6	1681.6	1242.0	946.5	768.8	677.1	652.8	647.2
52.5°	4068.3	3570.8	2740.3	2119.3	1526.3	1047.5	789.3	634.1	572.4	555.5	553.7
55°	4281.5	3688.6	2747.7	2020.1	1339.3	864.2	656.5	546.2	505.0	495.7	493.8
57.5°	4541.5	3840.1	2770.2	1904.2	1142.9	705.2	559.3	491.9	465.8	458.3	458.3
60°	4824.0	4012.2	2811.3	1773.2	946.5	581.7	495.7	448.9	437.7	447.0	447.0
62.5°	5128.9	4214.2	2884.3	1614.2	763.2	491.9	445.2	413.4	405.9	424.6	426.5
65°	5411.3	4410.6	2931.1	1423.4	606.0	426.5	405.9	377.8	381.6	400.3	398.4
67.5°	5585.3	4573.3	2865.6	1184.0	480.7	377.8	364.7	340.4	349.8	364.7	366.6
70°	5478.7	4481.7	2542.0	894.1	376.0	329.2	319.9	304.9	312.4	331.1	338.6
72.5°	4956.8	4014.1	1977.1	604.2	303.0	276.8	280.6	273.1	282.4	299.3	316.1
75°	4023.4	3033.9	1326.2	387.2	239.4	235.7	241.3	235.7	239.4	256.3	265.6
77.5°	2100.6	1479.6	660.3	241.3	177.7	183.3	192.7	194.5	205.8	209.5	213.2
80°	980.1	665.9	275.0	134.7	117.8	129.1	147.8	149.6	153.4	159.0	160.9
82.5°	319.9	200.1	127.2	72.9	67.3	72.9	95.4	114.1	116.0	127.2	127.2
85°	33.7	20.6	28.1	29.9	26.2	31.8	43.0	41.2	18.7	11.2	11.2
87.5°	9.4	7.5	9.4	9.4	7.5	7.5	5.6	1.9	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)