

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: P836748

Luminaire Tested: **ARCH3-70-727-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836748
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: ARCH3-70-727-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11503 lumens
Efficiency: N/A
Efficacy: 157.4 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

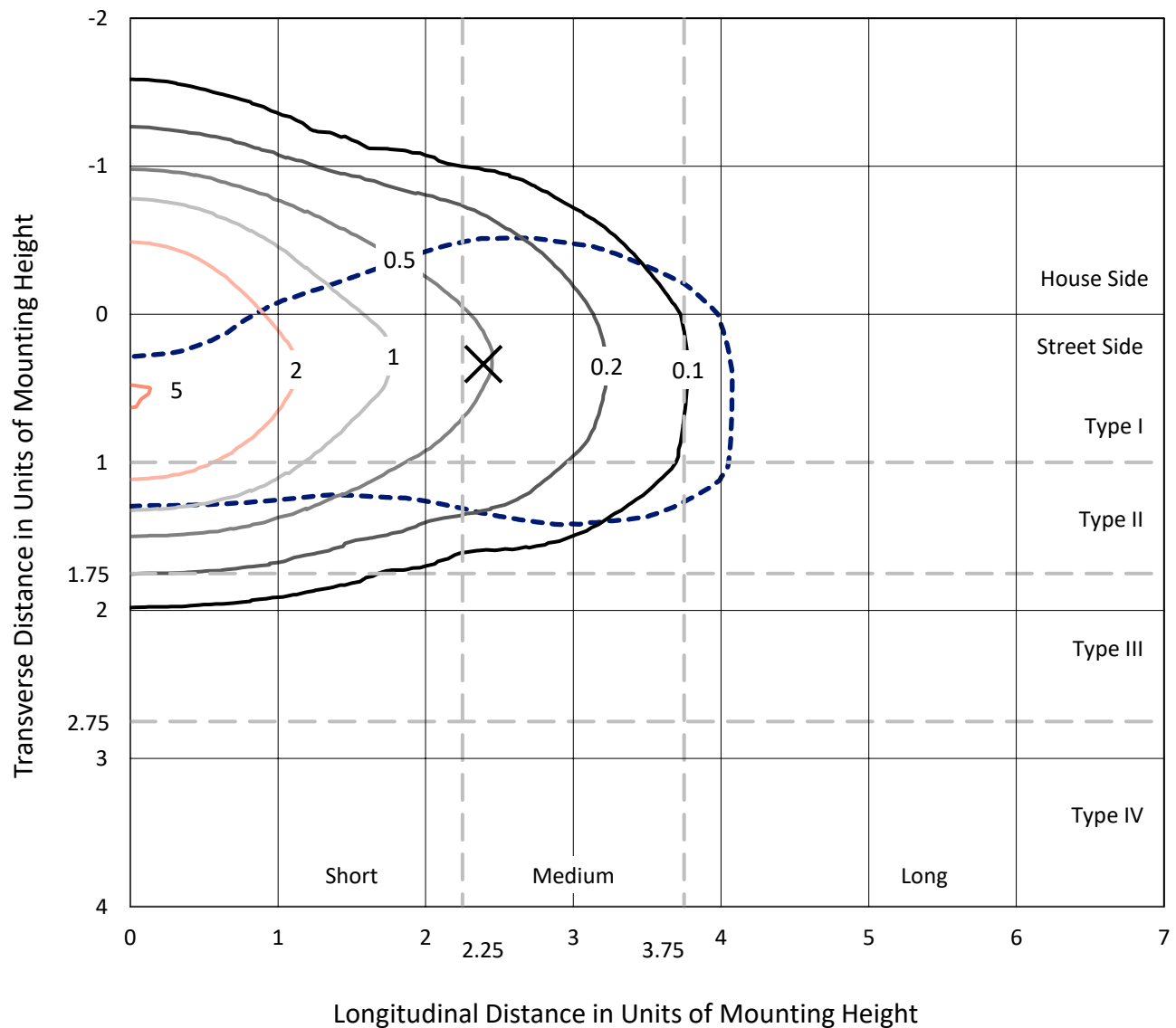


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Iso-Footcandle Lines of Horizontal Illumination

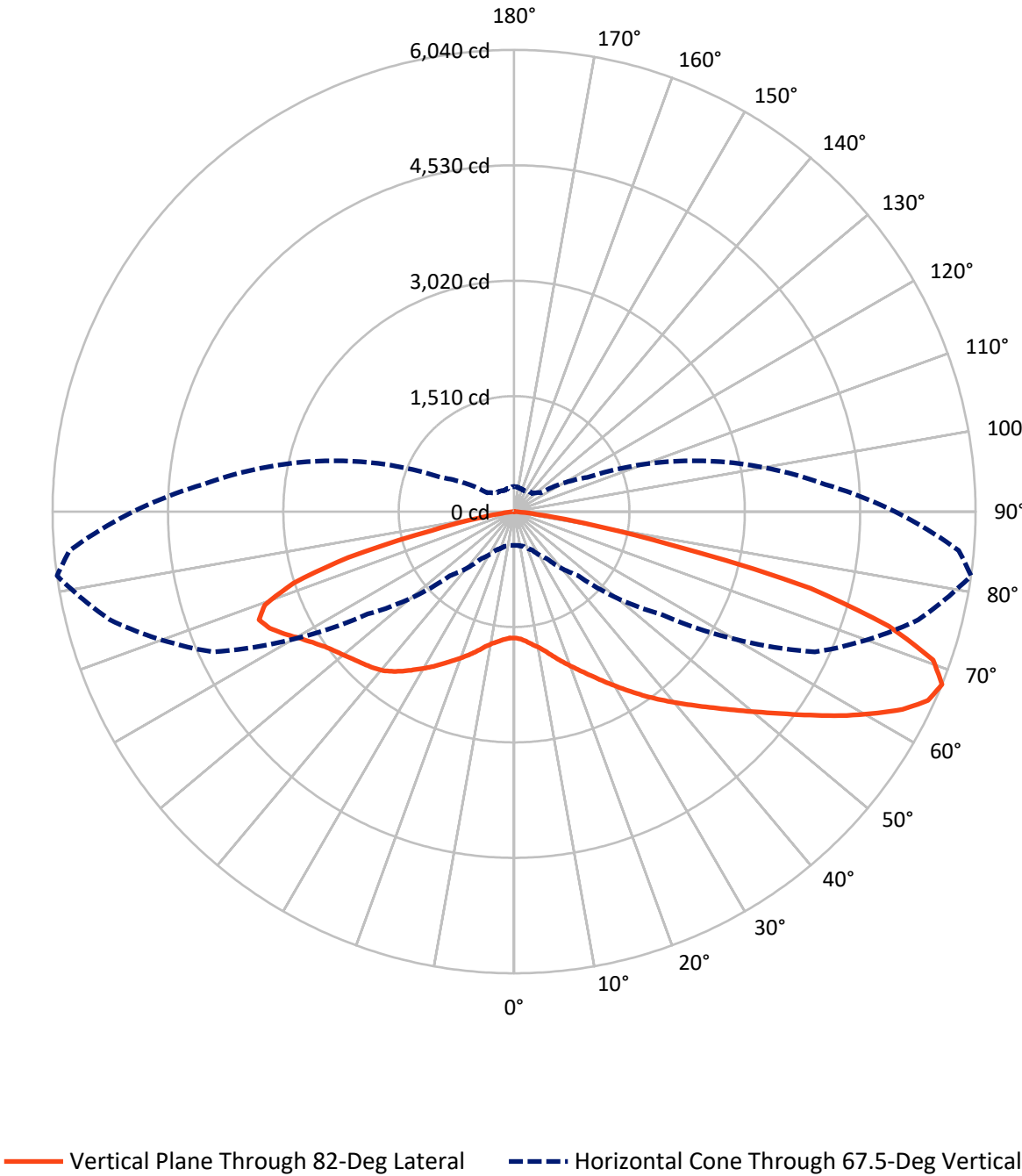
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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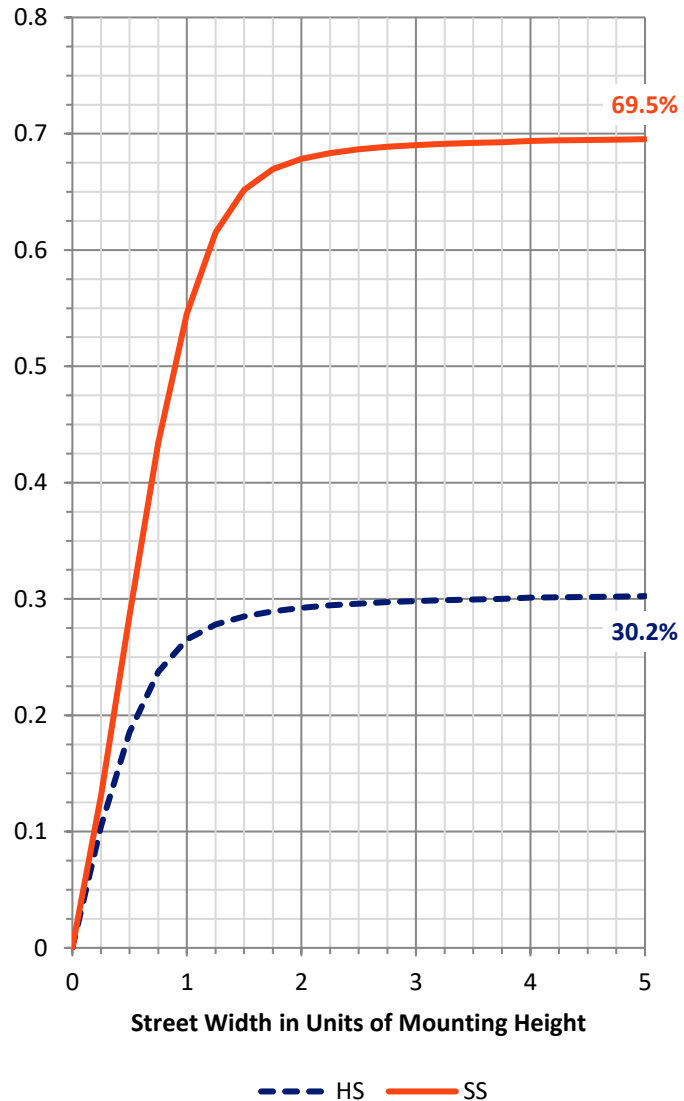
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3503.1	0.0	3503.1
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	7999.9	0.0	7999.9
	% Fixture	69.5	0.0	69.5
Total	Lumens	11503.0	0.0	11503.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.9	1.5
10°-20°	615.5	5.4
20°-30°	1237.1	10.8
30°-40°	1943.3	16.9
40°-50°	2367.3	20.6
50°-60°	2236.8	19.4
60°-70°	1847.1	16.1
70°-80°	1005.8	8.7
80°-90°	79.1	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°	11503.0	100.0
0°-180°	11503.0	100.0

Coefficient of Utilization



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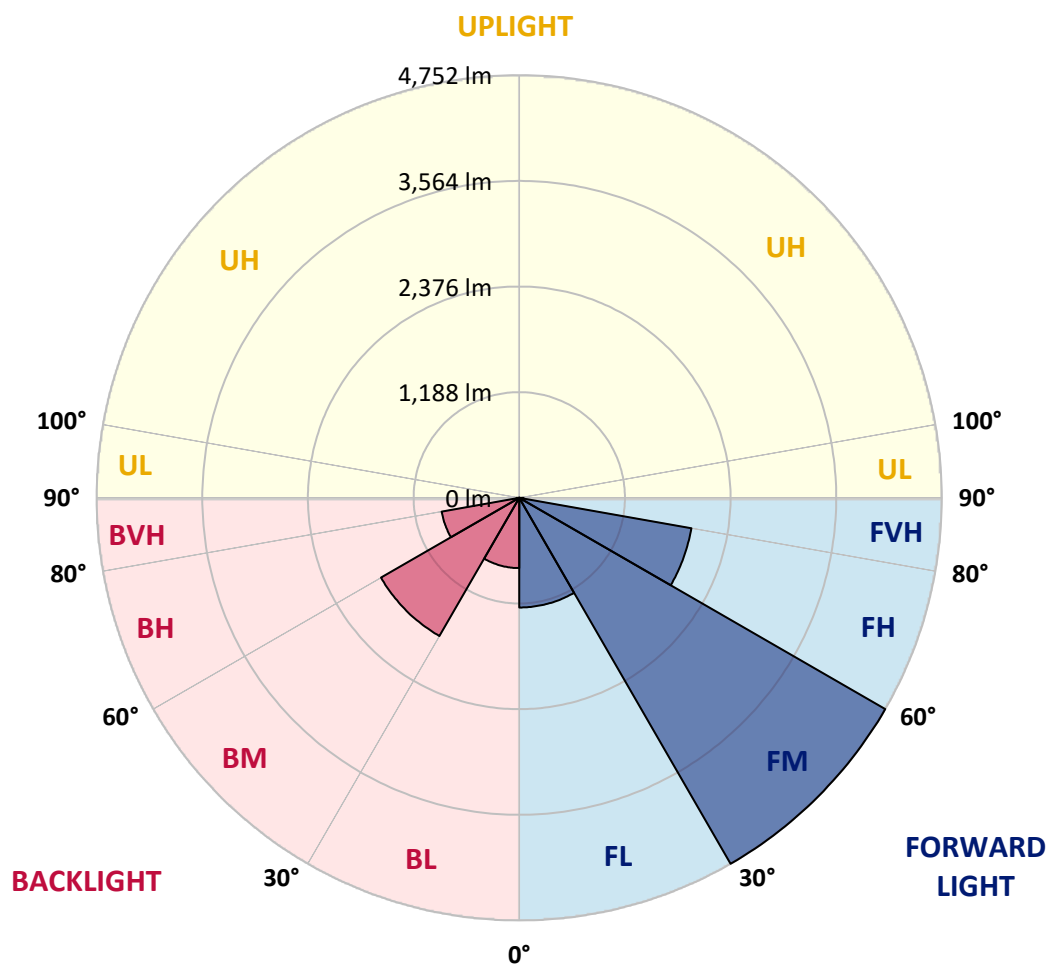
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1233.5	10.7			
FM	(30°-60°)	4752.4	41.3			
FH	(60°-80°)	1966.3	17.1			G2/5000
FVH	(80°-90°)	47.7	0.4			G1/100
BL	(0°-30°)	790.0	6.9	B2/1000		
BM	(30°-60°)	1795.1	15.6	B2/2500		
BH	(60°-80°)	886.7	7.7	B2/1000		G2/1000
BVH	(80°-90°)	31.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1653.6	1653.6	1653.6	1653.6	1653.6	1653.6	1653.6	1653.6	1653.6	1653.6	1653.6
2.5°	1728.7	1728.7	1742.1	1742.1	1730.4	1712.0	1707.0	1687.0	1668.6	1668.6	1670.3
5°	1894.1	1892.4	1902.4	1889.1	1860.7	1823.9	1798.9	1755.4	1718.7	1707.0	1705.3
7.5°	2096.2	2094.5	2099.5	2077.8	2024.3	1964.2	1914.1	1844.0	1783.8	1758.8	1752.1
10°	2321.7	2320.0	2315.0	2278.2	2206.4	2112.9	2037.7	1940.8	1850.6	1810.6	1802.2
12.5°	2580.5	2577.2	2565.5	2512.1	2413.5	2293.3	2184.7	2059.4	1939.2	1884.0	1865.7
15°	2869.5	2864.5	2842.8	2777.6	2645.7	2493.7	2353.4	2193.0	2046.1	1974.2	1949.2
17.5°	3173.5	3173.5	3140.1	3043.2	2896.2	2707.5	2533.8	2330.0	2158.0	2069.4	2039.4
20°	3482.5	3480.8	3439.1	3322.1	3148.4	2931.3	2710.8	2487.0	2273.2	2166.3	2129.6
22.5°	3808.2	3804.8	3753.1	3619.4	3412.3	3166.8	2909.6	2642.3	2400.2	2271.5	2224.8
25°	4182.3	4177.3	4113.8	3950.1	3704.6	3427.4	3133.4	2824.4	2545.5	2388.5	2333.3
27.5°	4579.8	4573.2	4498.0	4307.6	4038.7	3704.6	3380.6	3034.8	2705.8	2518.7	2456.9
30°	4933.9	4928.9	4847.1	4651.7	4342.7	3980.2	3616.1	3245.3	2874.5	2657.4	2580.5
32.5°	5201.2	5201.2	5127.7	4935.6	4614.9	4244.1	3853.3	3444.1	3049.9	2806.0	2715.8
35°	5363.2	5368.2	5304.7	5151.1	4848.7	4493.0	4098.8	3677.9	3236.9	2964.7	2867.8
37.5°	5386.6	5403.3	5366.5	5263.0	5010.8	4700.1	4339.3	3903.4	3430.7	3125.0	3016.5
40°	5278.0	5289.7	5291.4	5251.3	5077.6	4848.7	4551.4	4142.2	3636.1	3293.7	3168.5
42.5°	5060.9	5069.2	5084.2	5095.9	5029.1	4913.9	4713.5	4364.4	3854.9	3465.8	3318.8
45°	4780.3	4778.6	4803.6	4853.8	4850.4	4877.1	4803.6	4566.5	4082.1	3661.2	3485.8
47.5°	4361.0	4352.7	4441.2	4554.8	4611.6	4736.8	4805.3	4725.1	4329.3	3876.7	3676.2
50°	3704.6	3696.3	3890.0	4157.3	4324.3	4514.7	4713.5	4820.3	4588.2	4118.8	3883.3
52.5°	2906.2	2897.9	3143.4	3611.1	3975.2	4252.5	4528.1	4842.1	4833.7	4389.4	4117.2
55°	2161.3	2154.6	2393.5	2899.6	3489.2	3948.5	4300.9	4785.3	5064.2	4700.1	4401.1
57.5°	1523.3	1519.9	1727.0	2146.3	2864.5	3577.7	4082.1	4675.0	5276.3	5037.5	4721.8
60°	1069.0	1064.0	1214.3	1538.3	2166.3	3018.1	3865.0	4528.1	5435.0	5369.9	5062.5
62.5°	719.9	716.5	823.4	1094.0	1538.3	2323.3	3535.9	4429.5	5525.2	5703.9	5406.6
65°	546.2	544.5	592.9	741.6	1089.0	1668.6	3013.1	4417.8	5536.9	5954.5	5698.9
67.5°	440.9	442.6	469.3	554.5	753.3	1185.9	2336.7	4344.3	5475.1	6039.6	5840.9
70°	360.8	360.8	372.5	429.3	556.2	800.1	1631.8	4010.3	5303.1	5817.5	5672.2
72.5°	275.6	277.3	314.0	347.4	419.2	561.2	1045.6	3318.8	4897.2	5129.3	5019.1
75°	218.8	217.1	238.8	285.6	325.7	400.9	641.4	2380.1	4167.3	4008.6	3938.5
77.5°	157.0	155.3	172.0	212.1	247.2	283.9	382.5	1200.9	2266.5	2082.8	2031.0
80°	106.9	103.6	118.6	147.0	163.7	167.0	187.1	461.0	988.8	932.0	920.3
82.5°	55.1	55.1	63.5	83.5	85.2	86.9	83.5	148.7	327.4	305.7	292.3
85°	21.7	21.7	23.4	28.4	28.4	30.1	30.1	38.4	35.1	33.4	31.7
87.5°	1.7	1.7	3.3	3.3	5.0	5.0	5.0	6.7	8.4	8.4	8.4
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°	1653.6	1653.6	1653.6	1653.6	1653.6	1653.6	1653.6	1653.6	1653.6	1653.6	1653.6
2.5°	1666.9	1660.2	1638.5	1633.5	1630.2	1625.2	1626.8	1615.1	1610.1	1611.8	1605.1
5°	1697.0	1685.3	1658.6	1646.9	1643.5	1638.5	1643.5	1635.2	1626.8	1630.2	1626.8
7.5°	1738.7	1722.0	1688.6	1676.9	1675.3	1670.3	1676.9	1670.3	1663.6	1666.9	1660.2
10°	1782.2	1760.4	1723.7	1712.0	1712.0	1710.3	1717.0	1707.0	1700.3	1702.0	1698.6
12.5°	1845.6	1817.2	1777.1	1767.1	1762.1	1767.1	1768.8	1755.4	1743.7	1745.4	1740.4
15°	1922.5	1890.7	1847.3	1832.3	1828.9	1827.3	1820.6	1803.9	1788.8	1787.2	1782.2
17.5°	2006.0	1965.9	1914.1	1899.1	1884.0	1879.0	1862.3	1840.6	1817.2	1817.2	1810.6
20°	2086.1	2041.0	1979.2	1957.5	1935.8	1915.8	1887.4	1852.3	1822.2	1817.2	1810.6
22.5°	2173.0	2119.6	2047.7	2016.0	1977.6	1937.5	1889.1	1842.3	1803.9	1795.5	1790.5
25°	2269.9	2203.1	2117.9	2071.1	2009.3	1947.5	1875.7	1815.6	1770.5	1757.1	1753.8
27.5°	2376.8	2296.6	2193.0	2124.6	2034.4	1937.5	1845.6	1773.8	1718.7	1702.0	1697.0
30°	2485.3	2390.1	2261.5	2161.3	2034.4	1905.8	1790.5	1707.0	1643.5	1620.1	1616.8
32.5°	2593.9	2487.0	2323.3	2181.4	2014.3	1852.3	1718.7	1620.1	1548.3	1519.9	1526.6
35°	2724.2	2593.9	2380.1	2189.7	1980.9	1787.2	1636.8	1521.6	1448.1	1423.1	1428.1
37.5°	2859.5	2700.8	2425.2	2183.0	1934.2	1713.7	1545.0	1433.1	1341.2	1297.8	1302.8
40°	2976.4	2797.7	2456.9	2159.6	1874.0	1630.2	1454.8	1307.8	1180.9	1139.1	1134.1
42.5°	3086.6	2869.5	2473.6	2124.6	1805.5	1533.3	1326.2	1137.4	1010.5	958.7	960.4
45°	3201.9	2939.6	2467.0	2077.8	1720.4	1419.7	1160.8	970.4	858.5	811.7	813.4
47.5°	3333.8	3014.8	2460.3	2027.7	1616.8	1272.7	1002.2	823.4	726.6	693.2	689.8
50°	3474.1	3098.3	2451.9	1965.9	1501.6	1109.0	845.1	686.5	604.6	582.9	577.9
52.5°	3632.8	3188.5	2446.9	1892.4	1362.9	935.3	704.8	566.2	511.1	496.1	494.4
55°	3823.2	3293.7	2453.6	1803.9	1195.9	771.7	586.3	487.7	451.0	442.6	440.9
57.5°	4055.4	3429.0	2473.6	1700.3	1020.5	629.7	499.4	439.3	415.9	409.2	409.2
60°	4307.6	3582.7	2510.4	1583.4	845.1	519.4	442.6	400.9	390.8	399.2	399.2
62.5°	4579.8	3763.1	2575.5	1441.4	681.5	439.3	397.5	369.1	362.4	379.1	380.8
65°	4832.0	3938.5	2617.3	1271.1	541.2	380.8	362.4	337.4	340.7	357.4	355.8
67.5°	4987.4	4083.8	2558.8	1057.3	429.3	337.4	325.7	304.0	312.3	325.7	327.4
70°	4892.2	4001.9	2269.9	798.4	335.7	294.0	285.6	272.3	278.9	295.6	302.3
72.5°	4426.2	3584.4	1765.5	539.5	270.6	247.2	250.5	243.9	252.2	267.2	282.3
75°	3592.7	2709.2	1184.2	345.7	213.8	210.5	215.5	210.5	213.8	228.8	237.2
77.5°	1875.7	1321.2	589.6	215.5	158.7	163.7	172.0	173.7	183.7	187.1	190.4
80°	875.2	594.6	245.5	120.3	105.2	115.2	131.9	133.6	137.0	142.0	143.6
82.5°	285.6	178.7	113.6	65.1	60.1	65.1	85.2	101.9	103.6	113.6	113.6
85°	30.1	18.4	25.1	26.7	23.4	28.4	38.4	36.7	16.7	10.0	10.0
87.5°	8.4	6.7	8.4	8.4	6.7	6.7	5.0	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)