

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: P800275

Luminaire Tested: **ARCH2-90-730-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-90-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

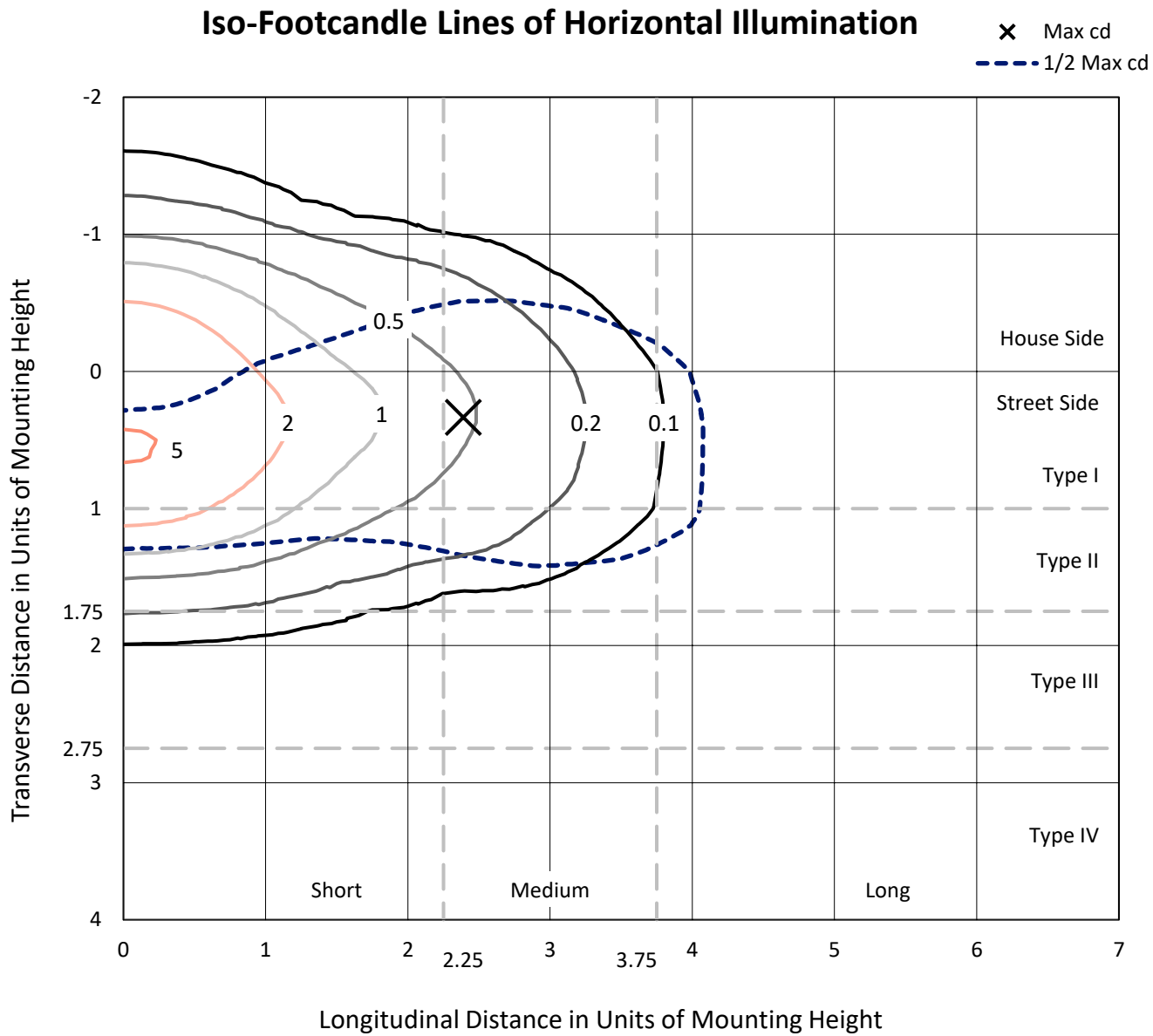
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11927 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 93.7
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

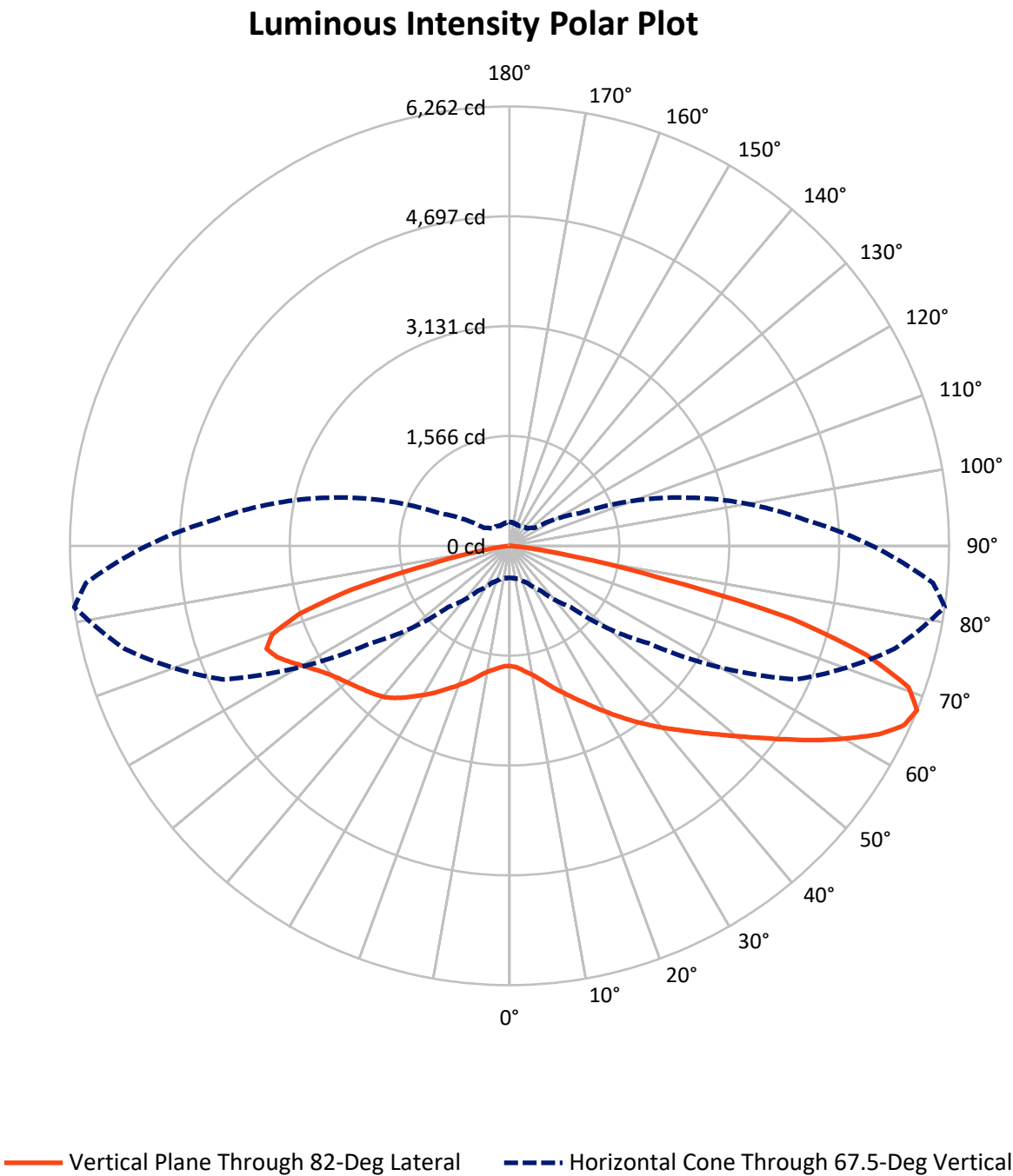


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Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
Type II - Medium - N/A

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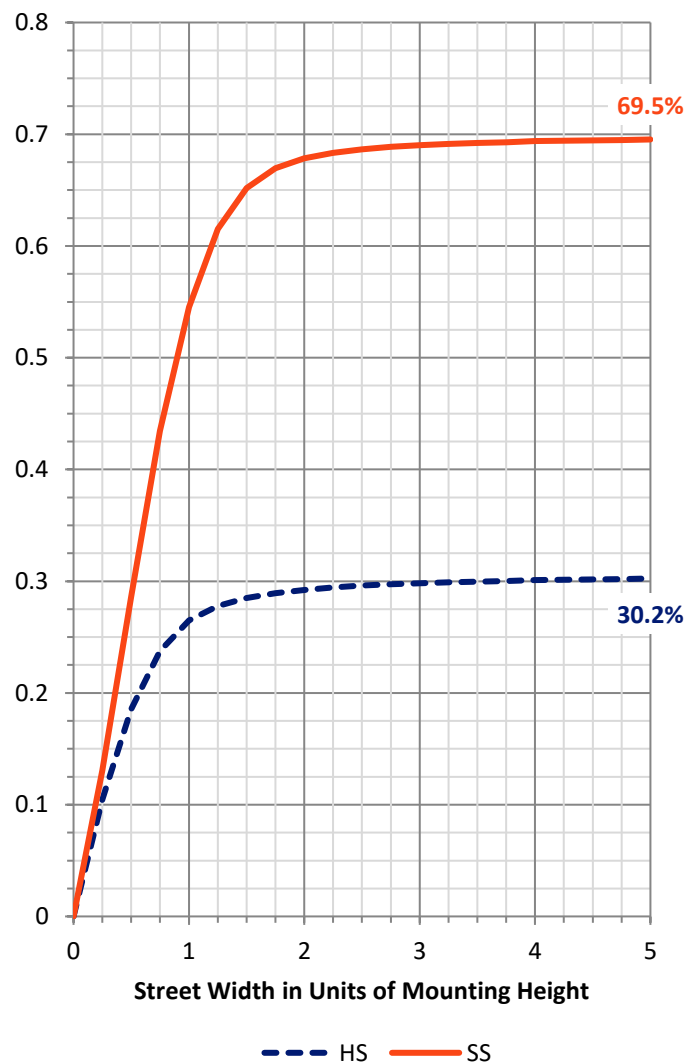
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3632.3	0.0	3632.3
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	8294.8	0.0	8294.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	11927.0	0.0	11927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.2	1.5
10°-20°	638.2	5.4
20°-30°	1282.7	10.8
30°-40°	2014.9	16.9
40°-50°	2454.6	20.6
50°-60°	2319.3	19.4
60°-70°	1915.2	16.1
70°-80°	1042.9	8.7
80°-90°	82.0	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°	11927.0	100.0
0°-180°	11927.0	100.0

Coefficient of Utilization



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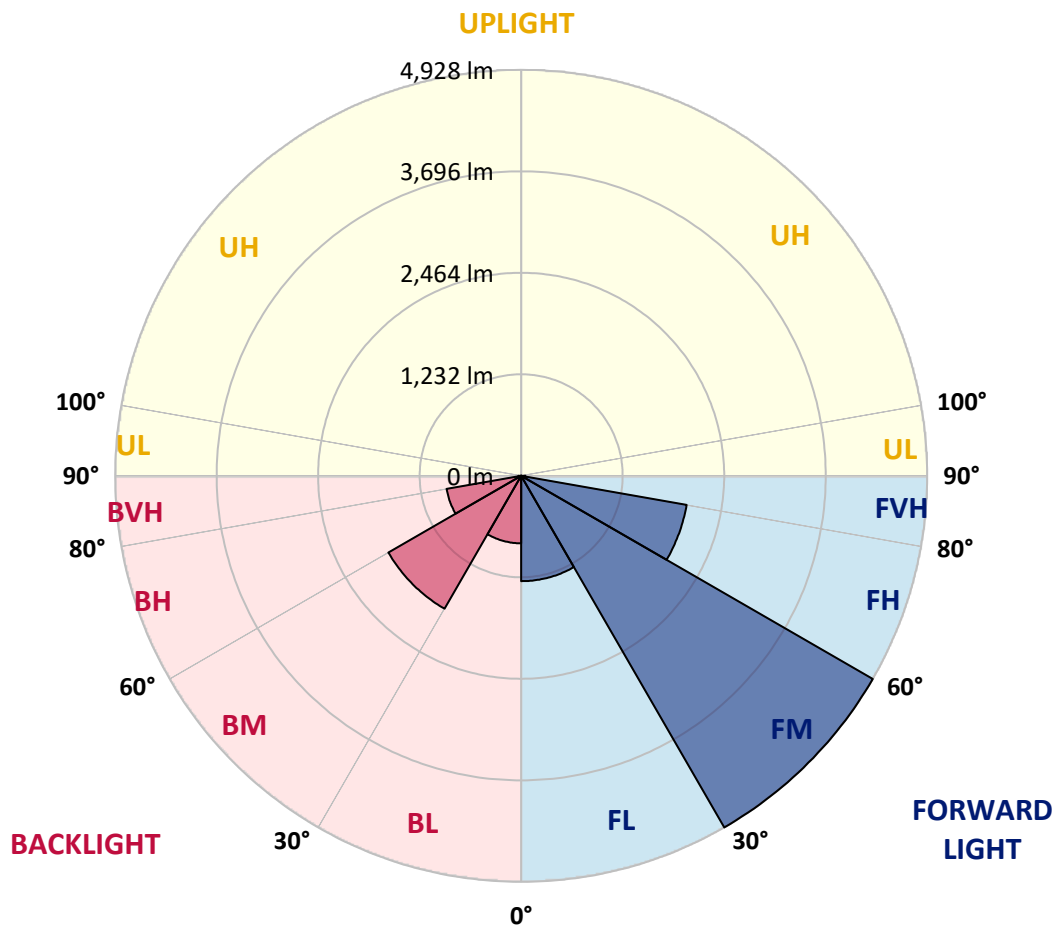
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1279.0	10.7			
FM	(30°-60°)	4927.6	41.3			
FH	(60°-80°)	2038.8	17.1			G2/5000
FVH	(80°-90°)	49.4	0.4			G1/100
BL	(0°-30°)	819.1	6.9	B2/1000		
BM	(30°-60°)	1861.2	15.6	B2/2500		
BH	(60°-80°)	919.3	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°	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5
2.5°	1792.4	1792.4	1806.3	1806.3	1794.2	1775.1	1769.9	1749.1	1730.1	1730.1	1731.8
5°	1963.9	1962.2	1972.5	1958.7	1929.2	1891.1	1865.2	1820.1	1782.0	1769.9	1768.2
7.5°	2173.4	2171.7	2176.9	2154.4	2099.0	2036.6	1984.7	1911.9	1849.6	1823.6	1816.7
10°	2407.2	2405.5	2400.3	2362.2	2287.7	2190.8	2112.8	2012.4	1918.9	1877.3	1868.6
12.5°	2675.7	2672.2	2660.1	2604.7	2502.5	2377.8	2265.2	2135.3	2010.6	1953.5	1934.4
15°	2975.3	2970.1	2947.6	2880.0	2743.2	2585.6	2440.1	2273.9	2121.5	2047.0	2021.0
17.5°	3290.5	3290.5	3255.8	3155.4	3003.0	2807.3	2627.2	2415.9	2237.5	2145.7	2114.6
20°	3610.8	3609.1	3565.8	3444.6	3264.5	3039.3	2810.7	2578.7	2357.0	2246.2	2208.1
22.5°	3948.5	3945.1	3891.4	3752.9	3538.1	3283.5	3016.8	2739.7	2488.6	2355.3	2306.8
25°	4336.5	4331.3	4265.5	4095.8	3841.2	3553.7	3248.9	2928.5	2639.3	2476.5	2419.4
27.5°	4748.6	4741.7	4663.8	4466.4	4187.5	3841.2	3505.2	3146.7	2805.5	2611.6	2547.5
30°	5115.8	5110.6	5025.7	4823.1	4502.7	4126.9	3749.4	3364.9	2980.5	2755.3	2675.7
32.5°	5392.9	5392.9	5316.7	5117.5	4785.0	4400.6	3995.3	3571.0	3162.3	2909.5	2815.9
35°	5560.9	5566.1	5500.3	5340.9	5027.5	4658.6	4249.9	3813.5	3356.3	3074.0	2973.5
37.5°	5585.1	5602.4	5564.3	5457.0	5195.5	4873.3	4499.3	4047.3	3557.2	3240.2	3127.7
40°	5472.5	5484.7	5486.4	5444.8	5264.7	5027.5	4719.2	4294.9	3770.2	3415.1	3285.3
42.5°	5247.4	5256.1	5271.7	5283.8	5214.5	5095.0	4887.2	4525.2	3997.0	3593.5	3441.1
45°	4956.5	4954.7	4980.7	5032.7	5029.2	5056.9	4980.7	4734.8	4232.6	3796.1	3614.3
47.5°	4521.8	4513.1	4604.9	4722.7	4781.6	4911.4	4982.4	4899.3	4488.9	4019.6	3811.7
50°	3841.2	3832.5	4033.4	4310.5	4483.7	4681.1	4887.2	4998.0	4757.3	4270.7	4026.5
52.5°	3013.4	3004.7	3259.3	3744.2	4121.7	4409.2	4695.0	5020.5	5011.9	4551.2	4268.9
55°	2241.0	2234.0	2481.7	3006.4	3617.8	4094.0	4459.4	4961.7	5250.9	4873.3	4563.3
57.5°	1579.4	1576.0	1790.7	2225.4	2970.1	3709.6	4232.6	4847.4	5470.8	5223.2	4895.9
60°	1108.4	1103.2	1259.0	1595.0	2246.2	3129.4	4007.4	4695.0	5635.3	5567.8	5249.1
62.5°	746.4	743.0	853.8	1134.3	1595.0	2409.0	3666.3	4592.8	5728.9	5914.2	5605.9
65°	566.3	564.6	614.8	768.9	1129.1	1730.1	3124.2	4580.7	5741.0	6173.9	5909.0
67.5°	457.2	458.9	486.6	575.0	781.1	1229.6	2422.8	4504.5	5676.9	6262.3	6056.2
70°	374.1	374.1	386.2	445.1	576.7	829.5	1692.0	4158.1	5498.5	6031.9	5881.3
72.5°	285.8	287.5	325.6	360.2	434.7	581.9	1084.1	3441.1	5077.7	5318.4	5204.1
75°	226.9	225.1	247.7	296.1	337.7	415.6	665.0	2467.8	4320.9	4156.4	4083.6
77.5°	162.8	161.1	178.4	219.9	256.3	294.4	396.6	1245.2	2350.1	2159.6	2105.9
80°	110.8	107.4	123.0	152.4	169.7	173.2	194.0	478.0	1025.2	966.4	954.2
82.5°	57.2	57.2	65.8	86.6	88.3	90.1	86.6	154.1	339.4	316.9	303.1
85°	22.5	22.5	24.2	29.4	29.4	31.2	31.2	39.8	36.4	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°	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5
2.5°	1728.4	1721.4	1698.9	1693.7	1690.3	1685.1	1686.8	1674.7	1669.5	1671.2	1664.3
5°	1759.5	1747.4	1719.7	1707.6	1704.1	1698.9	1704.1	1695.5	1686.8	1690.3	1686.8
7.5°	1802.8	1785.5	1750.9	1738.7	1737.0	1731.8	1738.7	1731.8	1724.9	1728.4	1721.4
10°	1847.9	1825.3	1787.2	1775.1	1775.1	1773.4	1780.3	1769.9	1763.0	1764.7	1761.3
12.5°	1913.7	1884.2	1842.7	1832.3	1827.1	1832.3	1834.0	1820.1	1808.0	1809.8	1804.6
15°	1993.3	1960.4	1915.4	1899.8	1896.3	1894.6	1887.7	1870.4	1854.8	1853.0	1847.9
17.5°	2079.9	2038.4	1984.7	1969.1	1953.5	1948.3	1931.0	1908.5	1884.2	1884.2	1877.3
20°	2163.0	2116.3	2052.2	2029.7	2007.2	1986.4	1957.0	1920.6	1889.4	1884.2	1877.3
22.5°	2253.1	2197.7	2123.2	2090.3	2050.5	2008.9	1958.7	1910.2	1870.4	1861.7	1856.5
25°	2353.5	2284.3	2195.9	2147.5	2083.4	2019.3	1944.8	1882.5	1835.7	1821.9	1818.4
27.5°	2464.4	2381.3	2273.9	2202.9	2109.4	2008.9	1913.7	1839.2	1782.0	1764.7	1759.5
30°	2576.9	2478.2	2344.9	2241.0	2109.4	1976.0	1856.5	1769.9	1704.1	1679.9	1676.4
32.5°	2689.5	2578.7	2409.0	2261.8	2088.6	1920.6	1782.0	1679.9	1605.4	1576.0	1582.9
35°	2824.6	2689.5	2467.8	2270.4	2053.9	1853.0	1697.2	1577.7	1501.5	1475.5	1480.7
37.5°	2964.9	2800.4	2514.6	2263.5	2005.4	1776.8	1601.9	1485.9	1390.7	1345.6	1350.8
40°	3086.1	2900.8	2547.5	2239.2	1943.1	1690.3	1508.4	1356.0	1224.4	1181.1	1175.9
42.5°	3200.4	2975.3	2564.8	2202.9	1872.1	1589.8	1375.1	1179.4	1047.8	994.1	995.8
45°	3319.9	3048.0	2557.9	2154.4	1783.8	1472.0	1203.6	1006.2	890.2	841.7	843.4
47.5°	3456.7	3125.9	2551.0	2102.4	1676.4	1319.6	1039.1	853.8	753.3	718.7	715.2
50°	3602.2	3212.5	2542.3	2038.4	1556.9	1149.9	876.3	711.8	626.9	604.4	599.2
52.5°	3766.7	3306.0	2537.1	1962.2	1413.2	969.8	730.8	587.1	529.9	514.4	512.6
55°	3964.1	3415.1	2544.0	1870.4	1240.0	800.1	607.9	505.7	467.6	458.9	457.2
57.5°	4204.9	3555.4	2564.8	1763.0	1058.1	652.9	517.8	455.5	431.2	424.3	424.3
60°	4466.4	3714.8	2602.9	1641.8	876.3	538.6	458.9	415.6	405.2	413.9	413.9
62.5°	4748.6	3901.8	2670.5	1494.6	706.6	455.5	412.2	382.7	375.8	393.1	394.9
65°	5010.2	4083.6	2713.8	1317.9	561.1	394.9	375.8	349.8	353.3	370.6	368.9
67.5°	5171.2	4234.3	2653.1	1096.2	445.1	349.8	337.7	315.2	323.9	337.7	339.4
70°	5072.5	4149.4	2353.5	827.8	348.1	304.8	296.1	282.3	289.2	306.5	313.5
72.5°	4589.3	3716.5	1830.5	559.4	280.6	256.3	259.8	252.8	261.5	277.1	292.7
75°	3725.1	2809.0	1227.9	358.5	221.7	218.2	223.4	218.2	221.7	237.3	245.9
77.5°	1944.8	1369.9	611.3	223.4	164.5	169.7	178.4	180.1	190.5	194.0	197.4
80°	907.5	616.5	254.6	124.7	109.1	119.5	136.8	138.5	142.0	147.2	148.9
82.5°	296.1	185.3	117.8	67.5	62.3	67.5	88.3	105.6	107.4	117.8	117.8
85°	31.2	19.1	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)