

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: P1211673

Luminaire Tested: **ARCH4-80-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-80-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

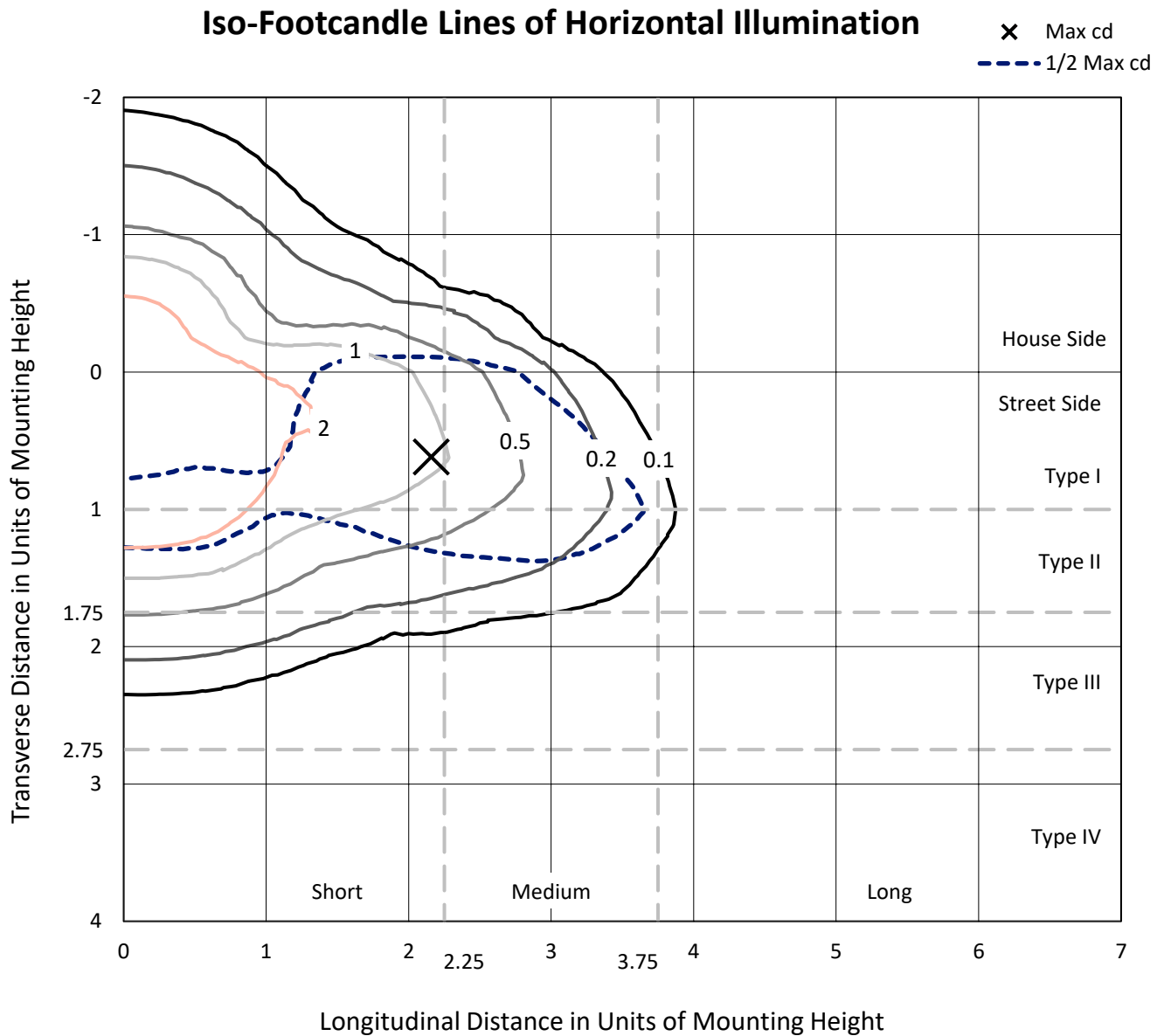
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13500 lumens
Efficiency: N/A
Efficacy: 161.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 83.4
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

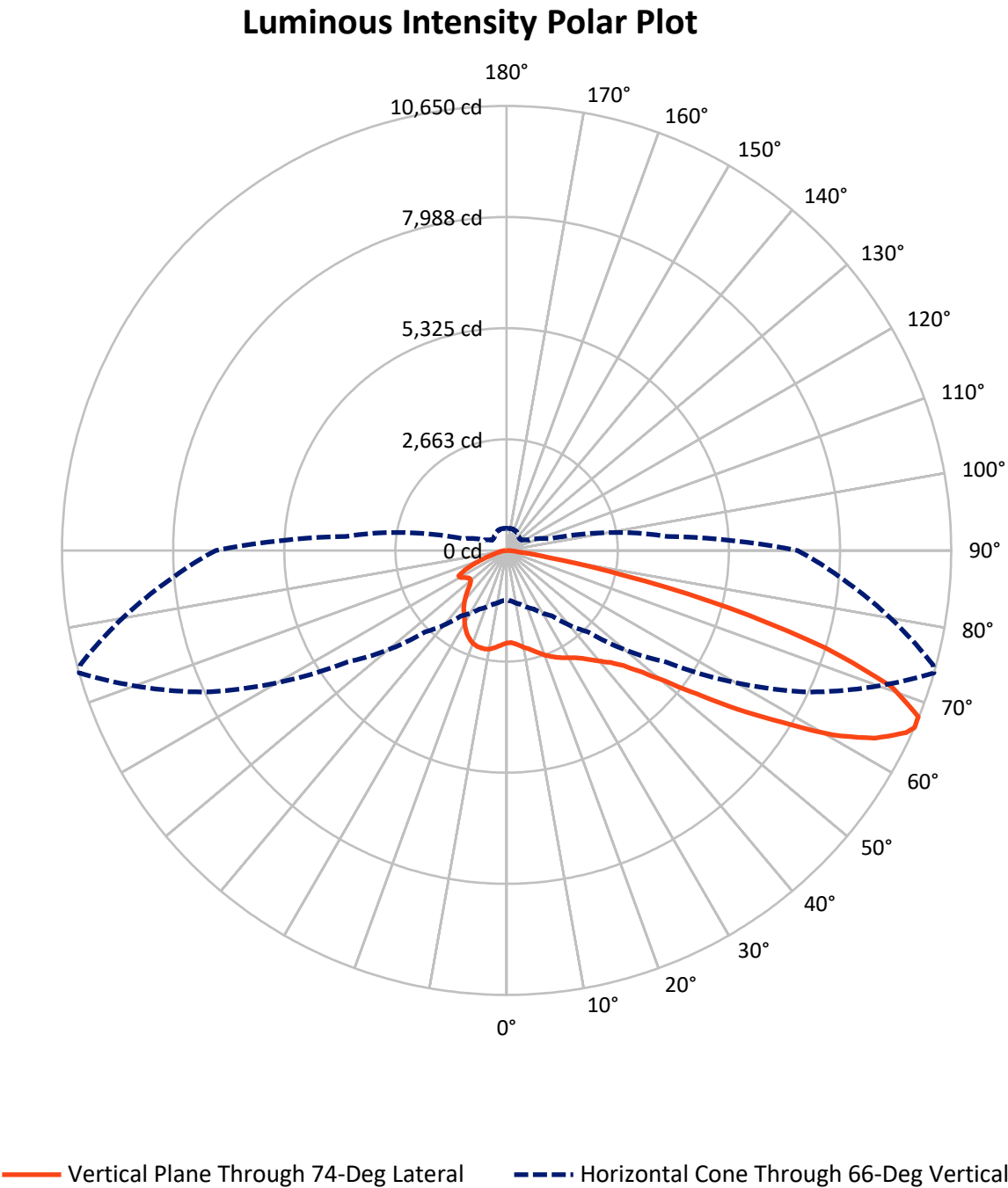


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Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type II - Short - N/A

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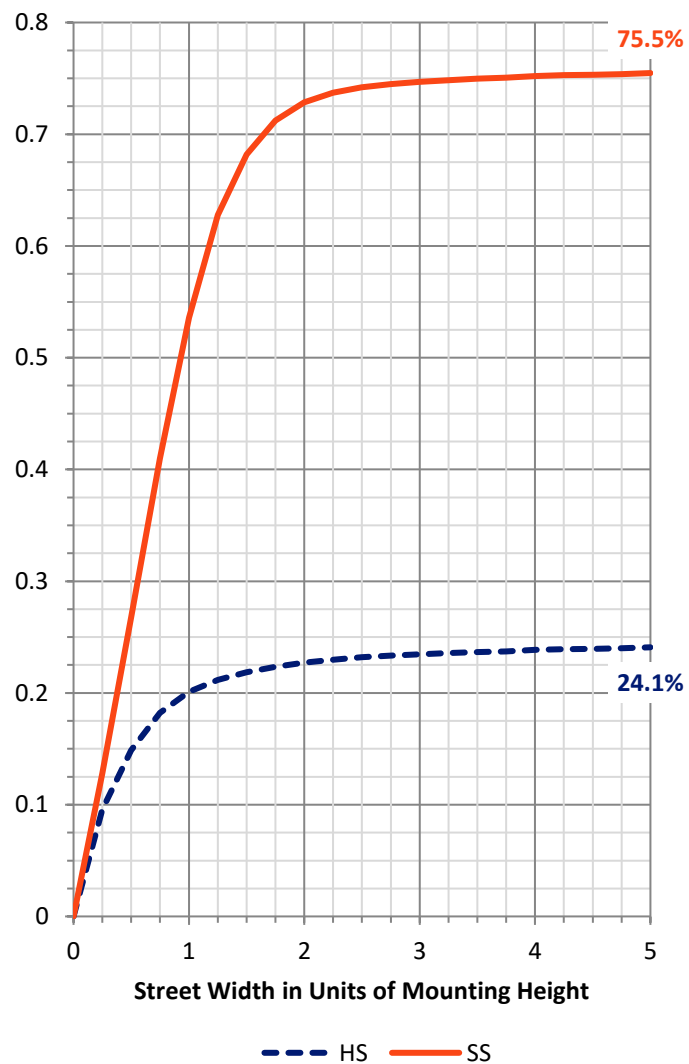
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3287.6	0.0	3287.6
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	10212.4	0.0	10212.4
	% Fixture	75.6	0.0	75.6
Total	Lumens	13500.0	0.0	13500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	1.6
10°-20°	649.2	4.8
20°-30°	1218.2	9.0
30°-40°	1873.9	13.9
40°-50°	2520.6	18.7
50°-60°	2980.9	22.1
60°-70°	2757.5	20.4
70°-80°	1160.1	8.6
80°-90°	128.4	1.0
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°	13500.0	100.0
0°-180°	13500.0	100.0

Coefficient of Utilization



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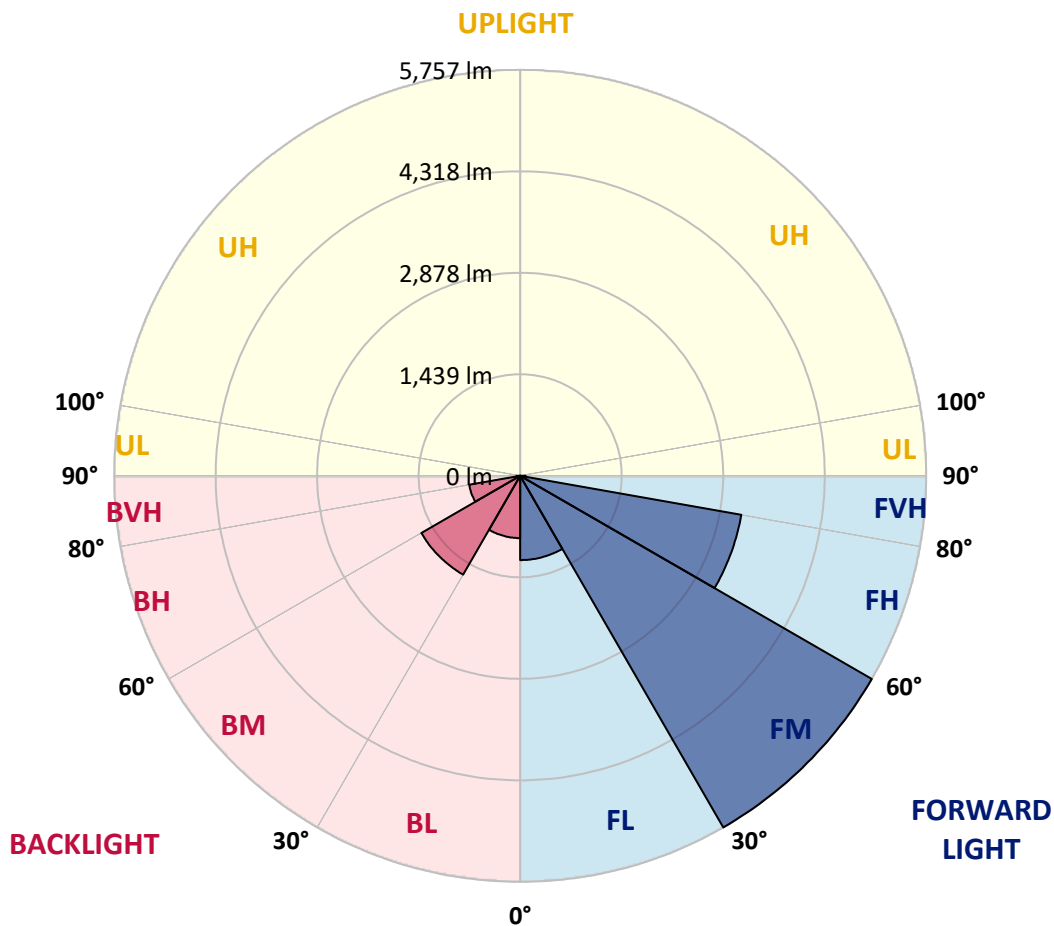
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1194.9	8.9			
FM	(30°-60°)	5757.0	42.6			
FH	(60°-80°)	3183.7	23.6			G2/5000
FVH	(80°-90°)	76.8	0.6			G1/100
BL	(0°-30°)	883.6	6.5	B2/1000		
BM	(30°-60°)	1618.5	12.0	B2/2500		
BH	(60°-80°)	733.9	5.4	B2/1000		G2/1000
BVH	(80°-90°)	51.6	0.4			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2213.1	2213.1	2213.1	2213.1	2213.1	2213.1	2213.1	2213.1	2213.1	2213.1	2213.1
2.5°	2206.2	2202.7	2209.6	2220.0	2225.3	2216.6	2213.1	2211.4	2211.4	2206.2	2214.8
5°	2101.9	2100.2	2115.8	2134.9	2171.4	2197.5	2232.2	2253.1	2246.1	2235.7	2242.6
7.5°	1966.4	1963.0	1982.1	2018.5	2068.9	2126.2	2211.4	2277.4	2303.4	2300.0	2298.2
10°	2018.5	2015.1	2013.3	2002.9	2020.3	2075.9	2164.5	2280.8	2369.4	2371.2	2372.9
12.5°	2199.2	2207.9	2199.2	2166.2	2128.0	2107.1	2159.2	2289.5	2425.0	2435.5	2478.9
15°	2445.9	2437.2	2419.8	2381.6	2322.5	2260.0	2221.8	2329.5	2504.9	2513.6	2609.2
17.5°	2663.0	2670.0	2659.5	2623.1	2553.6	2471.9	2355.5	2399.0	2590.1	2614.4	2748.1
20°	2899.3	2927.1	2913.2	2868.0	2810.7	2689.1	2543.2	2499.7	2683.9	2701.2	2892.3
22.5°	3172.0	3201.5	3175.5	3132.0	3085.1	2935.7	2748.1	2623.1	2762.0	2798.5	3031.3
25°	3498.6	3526.4	3502.0	3434.3	3375.2	3192.8	2968.7	2762.0	2838.5	2878.4	3144.2
27.5°	3757.4	3778.2	3800.8	3760.9	3670.5	3481.2	3198.0	2906.2	2914.9	2956.6	3248.4
30°	3988.4	4040.6	4059.7	4064.9	3988.4	3776.5	3432.6	3055.6	2980.9	3024.3	3352.7
32.5°	4304.6	4382.8	4351.5	4382.8	4337.6	4054.5	3675.8	3210.2	3066.0	3106.0	3451.7
35°	4766.7	4829.2	4747.6	4723.2	4650.3	4335.9	3910.3	3370.0	3178.9	3222.4	3545.5
37.5°	5263.5	5334.7	5216.6	5119.3	4980.3	4613.8	4111.8	3580.2	3335.3	3370.0	3632.3
40°	5697.8	5756.8	5654.3	5525.8	5293.0	4858.7	4285.5	3727.9	3491.6	3535.1	3733.1
42.5°	6099.1	6137.3	6022.6	5899.3	5588.3	5079.4	4473.1	3884.2	3674.0	3715.7	3814.7
45°	6505.5	6535.1	6375.3	6199.8	5835.0	5280.9	4679.8	4103.1	3941.5	3997.1	3946.8
47.5°	6578.5	6587.2	6559.4	6441.3	6029.6	5473.7	4935.2	4396.7	4349.8	4410.6	4174.3
50°	6073.0	6151.2	6323.1	6439.5	6107.7	5635.2	5190.5	4817.1	4912.6	4990.8	4646.8
52.5°	5091.5	5166.2	5564.0	6005.2	5920.1	5671.7	5465.0	5350.3	5706.5	5800.3	5289.5
55°	4056.2	4122.2	4542.6	5178.4	5313.9	5505.0	5758.6	6031.3	6719.2	6781.7	5994.8
57.5°	3340.5	3377.0	3677.5	4289.0	4506.1	4971.7	5916.7	6840.8	7749.3	7844.9	6608.0
60°	2739.4	2779.4	3003.5	3507.3	3795.6	4209.1	5791.6	7639.9	8979.2	8979.2	7394.9
62.5°	2062.0	2096.7	2305.2	2699.5	3184.2	3562.8	5392.0	8169.7	9906.8	9865.1	7964.7
65°	1415.8	1443.6	1594.7	1857.0	2293.0	3036.5	4846.6	8176.7	10521.8	10466.2	8207.9
66°	1188.2	1212.5	1341.1	1553.0	1919.5	2755.1	4653.8	8029.0	10650.3	10572.2	8105.4
67.5°	938.0	955.4	1040.5	1165.6	1407.1	2230.5	4349.8	7610.4	10638.2	10591.3	7844.9
70°	670.5	682.7	745.2	771.3	832.1	1290.7	3455.1	6665.4	9785.2	9799.1	6820.0
72.5°	519.4	538.5	576.7	581.9	568.0	686.2	2096.7	5560.5	8004.7	7999.5	5062.0
75°	418.6	429.1	448.2	458.6	455.1	443.0	887.7	4148.3	5510.2	5574.4	2835.0
77.5°	330.1	328.3	345.7	359.6	370.0	347.4	406.5	2432.0	2888.8	2807.2	1064.9
80°	243.2	243.2	267.5	272.7	288.4	291.8	271.0	938.0	991.9	901.6	276.2
82.5°	159.8	159.8	185.9	189.3	205.0	227.6	196.3	281.4	274.5	260.6	125.1
85°	86.9	83.4	92.1	104.2	112.9	133.8	118.1	140.7	144.2	142.4	83.4
87.5°	17.4	15.6	24.3	27.8	31.3	41.7	38.2	57.3	79.9	78.2	36.5
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°	2213.1	2213.1	2213.1	2213.1	2213.1	2213.1	2213.1	2213.1	2213.1	2213.1	2213.1
2.5°	2227.0	2225.3	2244.4	2266.9	2293.0	2308.6	2315.6	2327.7	2319.1	2322.5	2333.0
5°	2260.0	2265.2	2293.0	2322.5	2334.7	2326.0	2306.9	2300.0	2284.3	2280.8	2277.4
7.5°	2308.6	2317.3	2345.1	2352.1	2315.6	2254.8	2211.4	2187.0	2161.0	2154.0	2150.6
10°	2388.5	2393.8	2400.7	2329.5	2239.2	2157.5	2103.7	2081.1	2063.7	2049.8	2053.3
12.5°	2489.3	2485.8	2432.0	2284.3	2155.8	2072.4	2035.9	2022.0	2009.9	2001.2	1999.4
15°	2616.1	2591.8	2437.2	2221.8	2077.6	2008.1	1982.1	1976.8	1963.0	1963.0	1961.2
17.5°	2744.7	2682.1	2433.7	2155.8	2002.9	1964.7	1949.1	1945.6	1942.1	1940.4	1945.6
20°	2873.2	2762.0	2405.9	2074.1	1950.8	1928.2	1924.7	1926.5	1923.0	1928.2	1924.7
22.5°	2986.1	2814.1	2353.8	1987.3	1914.3	1912.6	1903.9	1907.4	1919.5	1921.3	1926.5
25°	3073.0	2833.3	2277.4	1907.4	1888.3	1884.8	1895.2	1909.1	1919.5	1921.3	1929.9
27.5°	3144.2	2822.8	2181.8	1844.8	1843.1	1862.2	1893.5	1898.7	1900.4	1900.4	1893.5
30°	3198.0	2800.2	2060.2	1775.3	1784.0	1830.9	1860.5	1860.5	1846.6	1843.1	1853.5
32.5°	3210.2	2770.7	1928.2	1704.1	1718.0	1773.6	1810.1	1797.9	1782.3	1782.3	1789.2
35°	3220.6	2730.8	1822.2	1606.8	1627.7	1693.7	1728.4	1704.1	1686.7	1681.5	1679.8
37.5°	3217.2	2715.1	1726.7	1483.5	1511.3	1575.6	1598.2	1575.6	1549.5	1537.4	1553.0
40°	3220.6	2704.7	1606.8	1348.0	1375.8	1414.0	1443.6	1426.2	1401.9	1370.6	1386.2
42.5°	3241.5	2718.6	1474.8	1216.0	1216.0	1236.8	1287.2	1275.1	1216.0	1203.8	1217.7
45°	3352.7	2793.3	1342.8	1084.0	1064.9	1078.8	1130.9	1078.8	1042.3	1042.3	1054.4
47.5°	3621.9	2932.3	1226.4	967.6	922.4	950.2	964.1	915.5	887.7	880.7	892.9
50°	4170.8	3210.2	1156.9	872.0	816.4	837.3	828.6	826.9	799.1	802.6	809.5
52.5°	5004.7	3752.2	1136.1	825.1	755.6	760.9	752.2	755.6	750.4	767.8	773.0
55°	5913.2	4323.7	1162.1	832.1	714.0	677.5	681.0	698.3	719.2	747.0	752.2
57.5°	6592.4	4610.3	1229.9	879.0	661.8	606.3	614.9	647.9	687.9	710.5	722.6
60°	7097.9	4575.6	1328.9	891.1	599.3	542.0	557.6	606.3	641.0	660.1	672.3
62.5°	7262.9	4358.4	1353.2	802.6	517.7	481.2	519.4	569.8	585.4	606.3	614.9
65°	7127.4	4051.0	1176.0	651.4	455.1	436.0	491.6	529.8	550.7	561.1	562.8
66°	6967.6	3866.8	1080.5	592.4	432.5	422.1	481.2	512.5	533.3	531.6	533.3
67.5°	6616.7	3481.2	925.9	509.0	399.5	401.3	463.8	484.7	491.6	486.4	486.4
70°	5423.3	2451.1	663.6	385.6	350.9	375.2	416.9	422.1	437.8	430.8	430.8
72.5°	3344.0	1203.8	444.7	295.3	312.7	350.9	349.2	366.5	403.0	413.4	420.4
75°	1643.3	488.1	293.6	250.1	279.7	293.6	290.1	333.5	385.6	430.8	446.4
77.5°	623.6	243.2	205.0	218.9	225.8	220.6	231.0	302.3	385.6	467.3	482.9
80°	192.8	168.5	161.6	180.7	170.2	161.6	173.7	250.1	326.6	354.4	354.4
82.5°	116.4	132.0	125.1	123.3	114.7	116.4	125.1	178.9	251.9	264.0	264.0
85°	81.6	86.9	71.2	67.7	66.0	64.3	64.3	104.2	149.4	147.7	152.9
87.5°	31.3	34.7	26.1	26.1	24.3	17.4	13.9	17.4	17.4	12.2	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

(END OF REPORT)