

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: P1210347

Luminaire Tested: **ARCH2-90-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-90-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12607 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
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

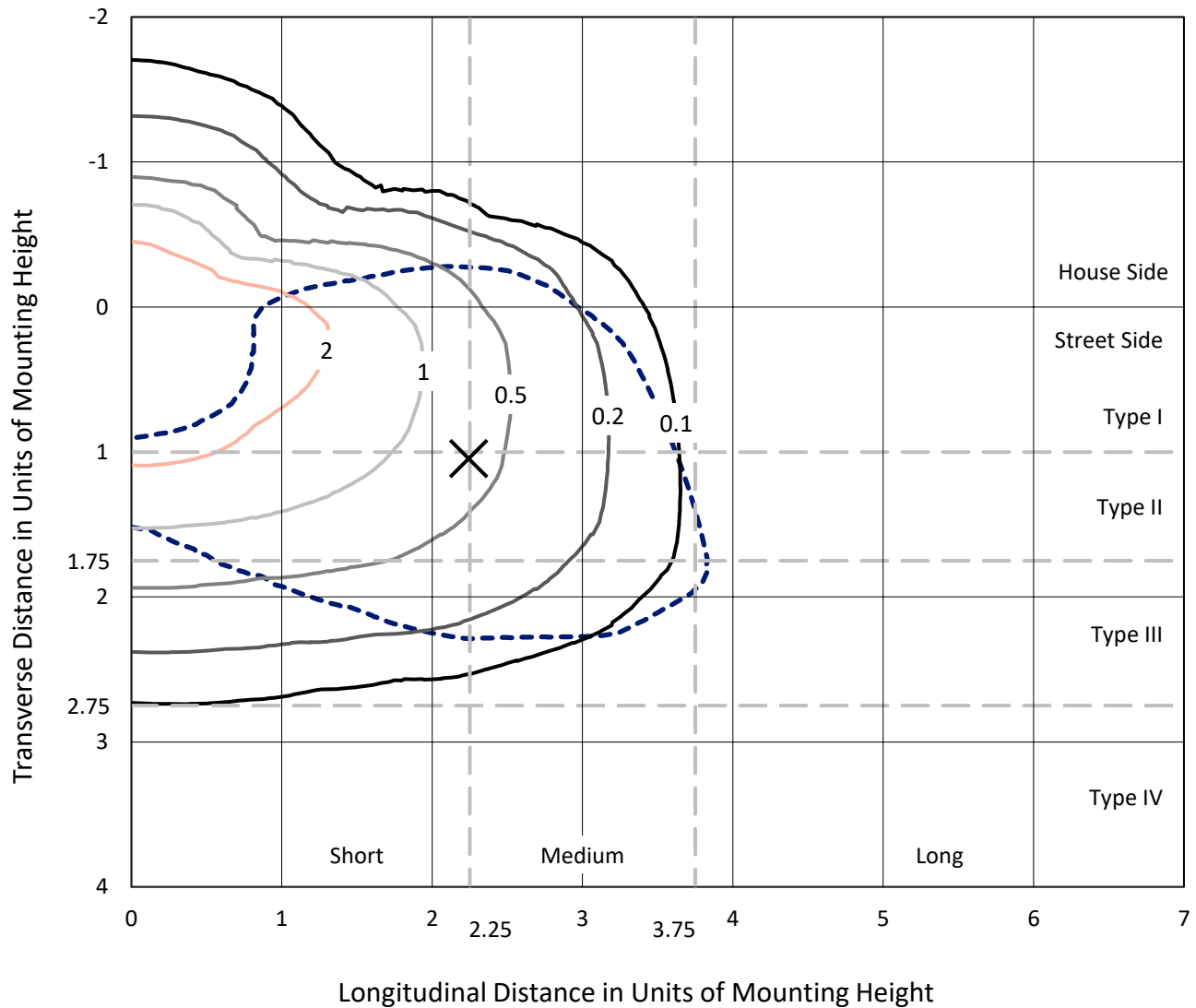


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Iso-Footcandle Lines of Horizontal Illumination

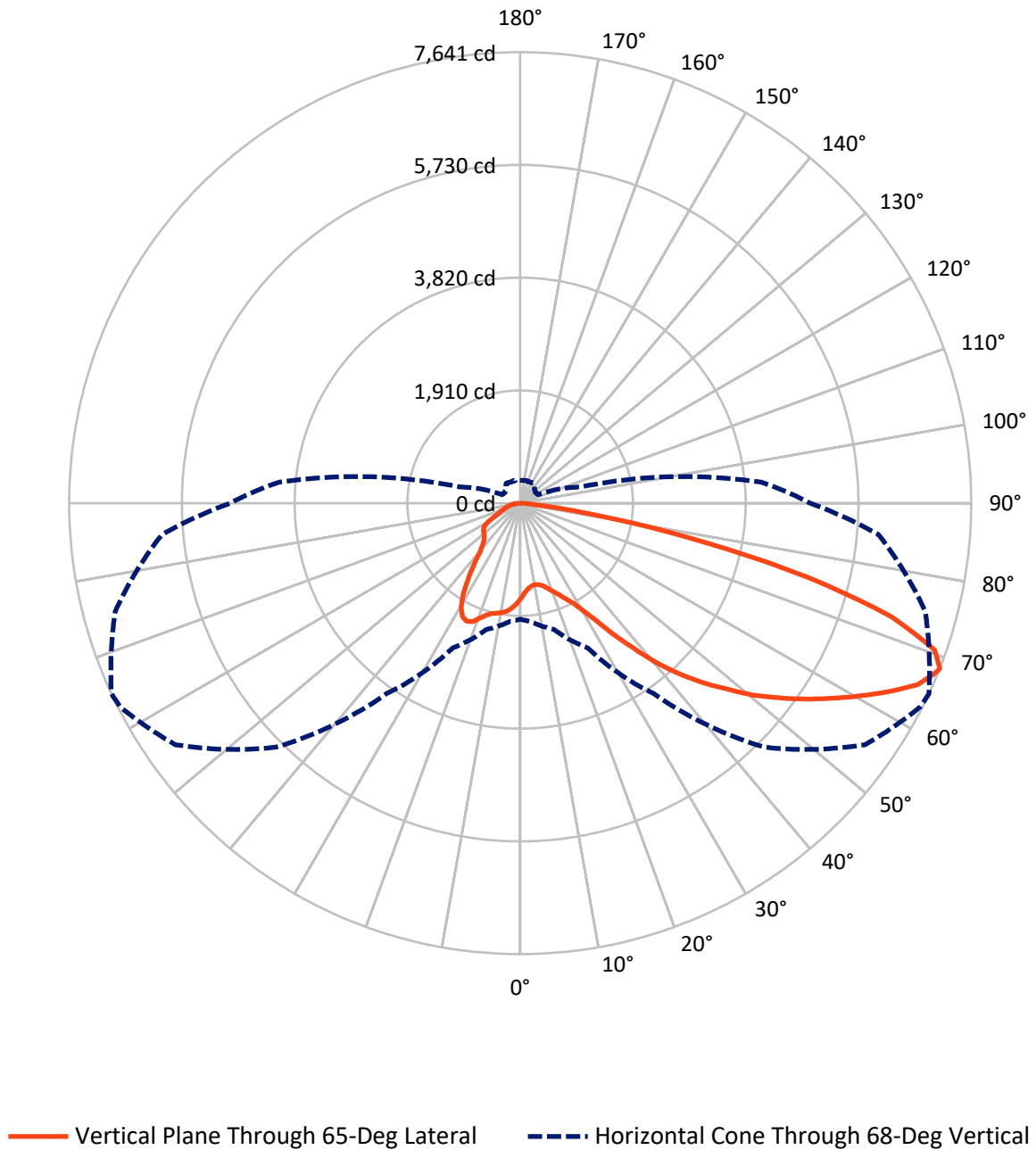
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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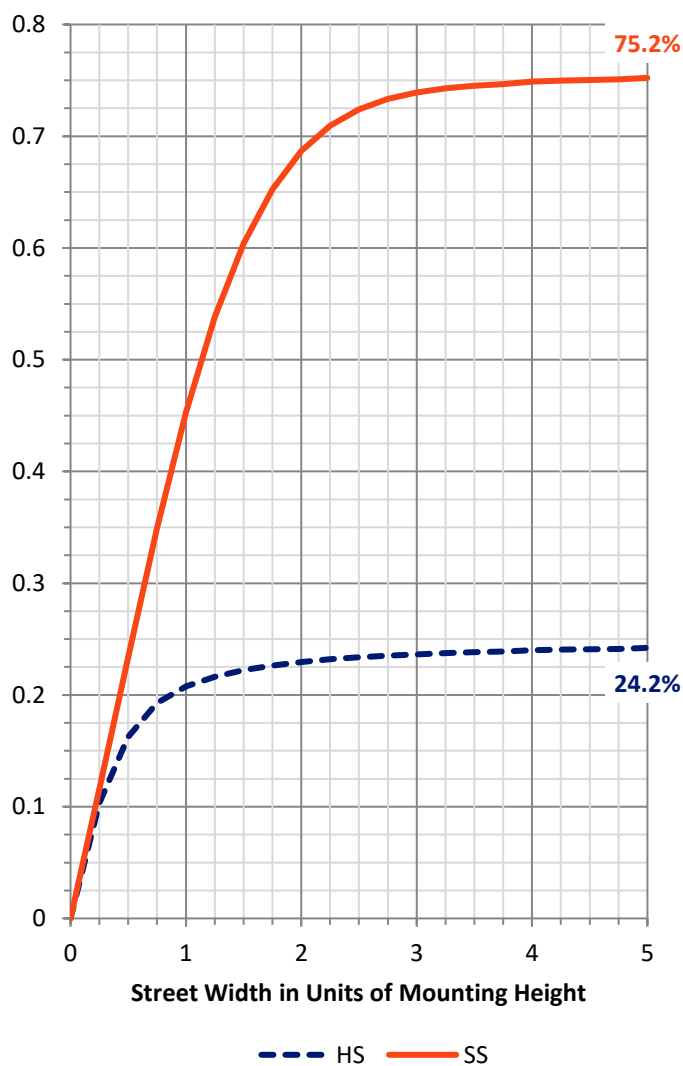
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3090.9	0.0	3090.9
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	9516.1	0.0	9516.1
	% Fixture	75.5	0.0	75.5
Total	Lumens	12607.0	0.0	12607.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.0	1.2
10°-20°	501.3	4.0
20°-30°	907.3	7.2
30°-40°	1427.3	11.3
40°-50°	2125.8	16.9
50°-60°	2788.7	22.1
60°-70°	3049.6	24.2
70°-80°	1509.0	12.0
80°-90°	143.9	1.1
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°	12607.0	100.0
0°-180°	12607.0	100.0

Coefficient of Utilization



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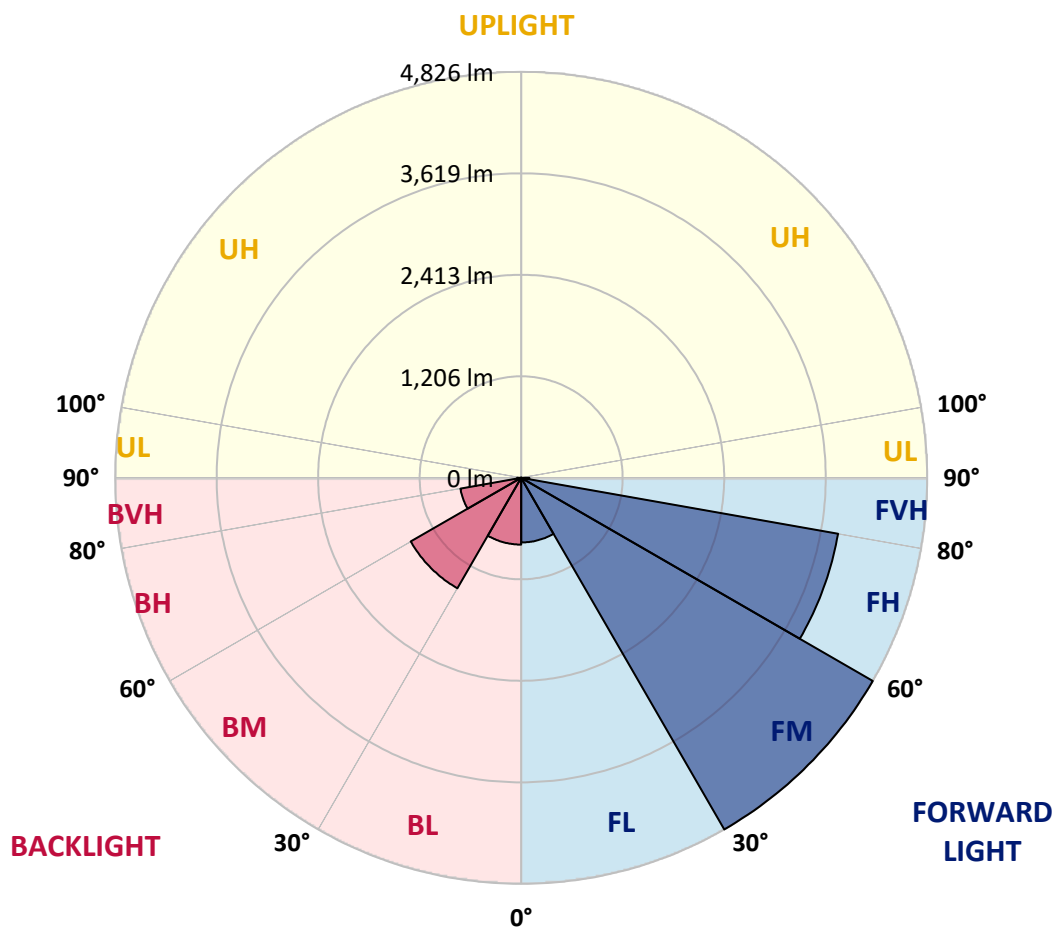
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	768.5	6.1			
FM	(30°-60°)	4825.8	38.3			
FH	(60°-80°)	3825.0	30.3			G2/5000
FVH	(80°-90°)	96.8	0.8			G1/100
BL	(0°-30°)	794.1	6.3	B2/1000		
BM	(30°-60°)	1516.0	12.0	B2/2500		
BH	(60°-80°)	733.6	5.8	B2/1000		G2/1000
BVH	(80°-90°)	47.1	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1611.0	1611.0	1611.0	1611.0	1611.0	1611.0	1611.0	1611.0	1611.0	1611.0	1611.0
2.5°	1406.2	1402.9	1411.1	1419.2	1437.1	1458.2	1487.5	1511.9	1515.1	1560.6	1596.4
5°	1323.3	1318.4	1326.5	1336.3	1344.4	1370.4	1401.3	1437.1	1451.7	1518.4	1594.8
7.5°	1331.4	1329.8	1333.0	1329.8	1329.8	1341.2	1362.3	1398.1	1414.3	1494.0	1602.9
10°	1378.6	1381.8	1383.4	1373.7	1363.9	1359.0	1365.5	1389.9	1401.3	1495.6	1638.7
12.5°	1456.6	1461.5	1463.1	1445.2	1432.2	1411.1	1399.7	1409.4	1417.6	1511.9	1689.1
15°	1562.3	1565.5	1554.1	1542.7	1510.2	1484.2	1456.6	1448.5	1451.7	1546.0	1746.0
17.5°	1685.8	1680.9	1680.9	1653.3	1611.0	1570.4	1524.9	1518.4	1518.4	1601.3	1827.2
20°	1820.7	1825.6	1811.0	1773.6	1731.3	1667.9	1622.4	1593.1	1596.4	1664.7	1926.4
22.5°	2015.8	2023.9	1984.9	1931.3	1866.2	1793.1	1728.1	1680.9	1682.6	1747.6	2028.8
25°	2225.5	2228.8	2204.4	2132.9	2045.1	1941.0	1854.9	1794.7	1793.1	1840.2	2160.5
27.5°	2440.1	2454.7	2406.0	2337.7	2256.4	2126.4	2012.6	1931.3	1918.3	1981.7	2324.7
30°	2661.2	2679.1	2631.9	2565.3	2464.5	2353.9	2219.0	2124.7	2116.6	2201.1	2544.1
32.5°	2883.9	2888.8	2851.4	2796.1	2705.1	2601.0	2492.1	2388.1	2380.0	2518.1	2828.6
35°	3066.0	3080.6	3054.6	3041.6	2974.9	2879.0	2773.4	2713.2	2734.3	2911.5	3197.7
37.5°	3285.4	3300.1	3270.8	3267.6	3246.4	3163.5	3090.4	3095.2	3116.4	3357.0	3586.2
40°	3602.4	3618.7	3543.9	3511.4	3511.4	3430.1	3405.7	3521.2	3548.8	3795.9	3991.0
42.5°	3870.7	3896.7	3852.8	3831.7	3768.3	3711.4	3740.6	3903.2	3950.3	4215.3	4343.7
45°	4000.7	4020.2	4072.3	4134.0	4072.3	3973.1	4083.6	4267.3	4334.0	4602.2	4696.5
47.5°	4070.6	4088.5	4148.7	4314.5	4356.7	4273.8	4429.9	4659.1	4704.6	4985.9	5033.0
50°	4080.4	4137.3	4215.3	4381.1	4574.6	4586.0	4777.8	5057.4	5111.1	5363.0	5328.9
52.5°	4000.7	4023.5	4184.4	4464.0	4678.6	4873.7	5156.6	5439.4	5478.4	5717.4	5590.6
55°	3870.7	3903.2	4064.1	4444.5	4779.4	5146.8	5541.8	5815.0	5858.9	6062.1	5832.8
57.5°	3753.6	3769.9	3942.2	4387.6	4880.2	5419.9	5884.9	6206.7	6236.0	6364.4	6011.7
60°	3623.6	3641.5	3813.8	4265.7	4955.0	5626.4	6242.5	6601.8	6627.8	6683.1	6219.7
62.5°	3287.1	3334.2	3550.4	4064.1	4935.5	5862.1	6624.5	6991.9	7024.4	6964.3	6383.9
65°	2669.3	2736.0	3001.0	3607.3	4753.4	6014.9	6936.7	7351.2	7406.5	7175.6	6427.8
67.5°	2072.7	2119.9	2332.8	2862.8	4114.5	5938.5	7138.2	7598.3	7614.6	7141.5	6184.0
68°	1965.4	2012.6	2215.8	2706.7	3937.3	5847.5	7133.4	7604.8	7640.6	7104.1	6089.7
70°	1503.7	1557.4	1750.8	2144.2	3173.3	5268.7	6835.9	7448.7	7443.9	6652.2	5504.5
72.5°	939.6	970.5	1103.8	1352.5	2098.7	4008.9	5802.0	6569.3	6582.3	5423.2	4221.8
75°	596.6	596.6	590.1	655.1	1076.2	2284.0	4312.9	5057.4	5067.2	3797.5	2661.2
77.5°	518.6	504.0	434.0	367.4	429.2	887.6	2552.3	3265.9	3212.3	2045.1	1263.1
80°	437.3	412.9	356.0	295.9	276.4	278.0	980.3	1658.2	1586.6	736.4	419.4
82.5°	315.4	294.2	268.2	232.5	213.0	165.8	204.8	479.6	468.2	213.0	136.6
85°	170.7	154.4	151.2	152.8	128.4	102.4	86.2	105.7	105.7	92.7	78.0
87.5°	60.1	43.9	52.0	58.5	50.4	42.3	34.1	40.6	42.3	40.6	37.4
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°	1611.0	1611.0	1611.0	1611.0	1611.0	1611.0	1611.0	1611.0	1611.0	1611.0	1611.0
2.5°	1617.5	1633.8	1672.8	1706.9	1731.3	1752.5	1763.8	1768.7	1780.1	1781.7	1778.5
5°	1630.5	1672.8	1731.3	1781.7	1809.4	1820.7	1824.0	1825.6	1820.7	1824.0	1820.7
7.5°	1664.7	1718.3	1801.2	1845.1	1850.0	1832.1	1833.7	1827.2	1833.7	1840.2	1840.2
10°	1716.7	1785.0	1863.0	1879.3	1858.1	1848.4	1867.9	1906.9	1919.9	1937.8	1937.8
12.5°	1785.0	1866.2	1921.5	1906.9	1887.4	1919.9	1976.8	2015.8	2028.8	2035.3	2030.4
15°	1863.0	1950.8	1978.4	1929.6	1965.4	2035.3	2054.8	2032.1	1999.6	1984.9	1993.0
17.5°	1962.2	2035.3	2019.1	1986.5	2067.8	2077.6	2014.2	1941.0	1889.0	1869.5	1882.5
20°	2066.2	2129.6	2054.8	2069.5	2119.9	2015.8	1895.5	1801.2	1755.7	1747.6	1760.6
22.5°	2176.7	2217.4	2090.6	2165.4	2090.6	1879.3	1734.6	1685.8	1674.4	1687.4	1698.8
25°	2301.9	2297.0	2152.4	2194.6	1981.7	1711.8	1625.7	1622.4	1622.4	1630.5	1646.8
27.5°	2443.4	2366.9	2214.1	2155.6	1793.1	1573.6	1557.4	1559.0	1554.1	1555.7	1563.9
30°	2607.5	2461.2	2282.4	2027.2	1581.8	1469.6	1463.1	1458.2	1446.8	1443.6	1446.8
32.5°	2814.0	2560.4	2352.3	1815.9	1396.4	1362.3	1359.0	1333.0	1305.4	1302.1	1313.5
35°	3075.7	2740.8	2388.1	1550.9	1243.6	1242.0	1230.6	1190.0	1154.2	1154.2	1146.1
37.5°	3374.9	2973.3	2402.7	1292.4	1116.8	1125.0	1092.4	1040.4	1012.8	996.5	1001.4
40°	3680.5	3238.3	2401.1	1066.4	1006.3	1007.9	983.5	920.1	851.8	811.2	821.0
42.5°	3974.7	3478.9	2358.8	946.1	916.9	912.0	892.5	806.3	749.4	716.9	718.5
45°	4210.4	3727.6	2293.8	874.6	835.6	843.7	799.8	747.8	695.8	666.5	664.9
47.5°	4446.2	3916.2	2189.8	830.7	775.4	760.8	742.9	707.2	668.1	635.6	637.3
50°	4660.7	4077.1	2092.2	801.4	720.2	682.8	686.0	664.9	630.8	601.5	599.9
52.5°	4811.9	4182.8	2038.6	785.2	653.5	612.9	624.3	612.9	580.4	559.2	557.6
55°	4963.1	4264.1	2056.5	764.1	580.4	547.8	567.4	564.1	546.2	539.7	541.3
57.5°	5085.0	4325.9	2119.9	725.0	510.5	490.9	523.5	513.7	500.7	502.3	502.3
60°	5203.7	4405.5	2194.6	635.6	450.3	451.9	482.8	464.9	456.8	471.4	473.1
62.5°	5327.3	4491.7	2132.9	505.6	398.3	409.7	445.4	430.8	434.0	455.2	461.7
65°	5312.6	4483.5	1737.8	414.5	352.8	375.5	429.2	424.3	425.9	434.0	437.3
67.5°	5013.5	4197.4	1194.9	352.8	320.3	347.9	416.2	396.7	398.3	393.4	395.0
68°	4912.7	4096.6	1053.4	343.0	313.8	341.4	409.7	391.8	393.4	388.5	386.9
70°	4363.3	3508.2	666.5	302.4	291.0	323.5	377.2	370.6	369.0	365.8	365.8
72.5°	3326.1	2589.7	351.1	261.7	265.0	295.9	336.5	349.5	341.4	343.0	352.8
75°	2202.8	1557.4	243.8	224.3	232.5	253.6	299.1	325.1	317.0	321.9	317.0
77.5°	1165.6	838.8	195.1	190.2	190.2	204.8	247.1	287.7	287.7	284.5	279.6
80°	382.0	295.9	156.1	149.6	152.8	160.9	198.3	235.7	240.6	234.1	230.8
82.5°	128.4	136.6	117.0	108.9	112.2	118.7	149.6	180.4	182.1	169.1	165.8
85°	79.7	91.0	73.2	71.5	71.5	73.2	91.0	99.2	91.0	81.3	84.5
87.5°	37.4	45.5	34.1	29.3	24.4	21.1	16.3	6.5	6.5	3.3	3.3
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)