

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: P1211322

Luminaire Tested: **ARCH4-240-727-U-T3RE-HSS**

Issue Date: 11/5/2025

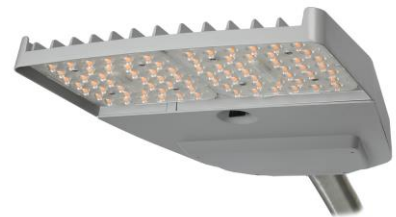
Test Information

Test Method: LM-79-08
Report Number: P1211322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-240-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23698 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 240.2
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



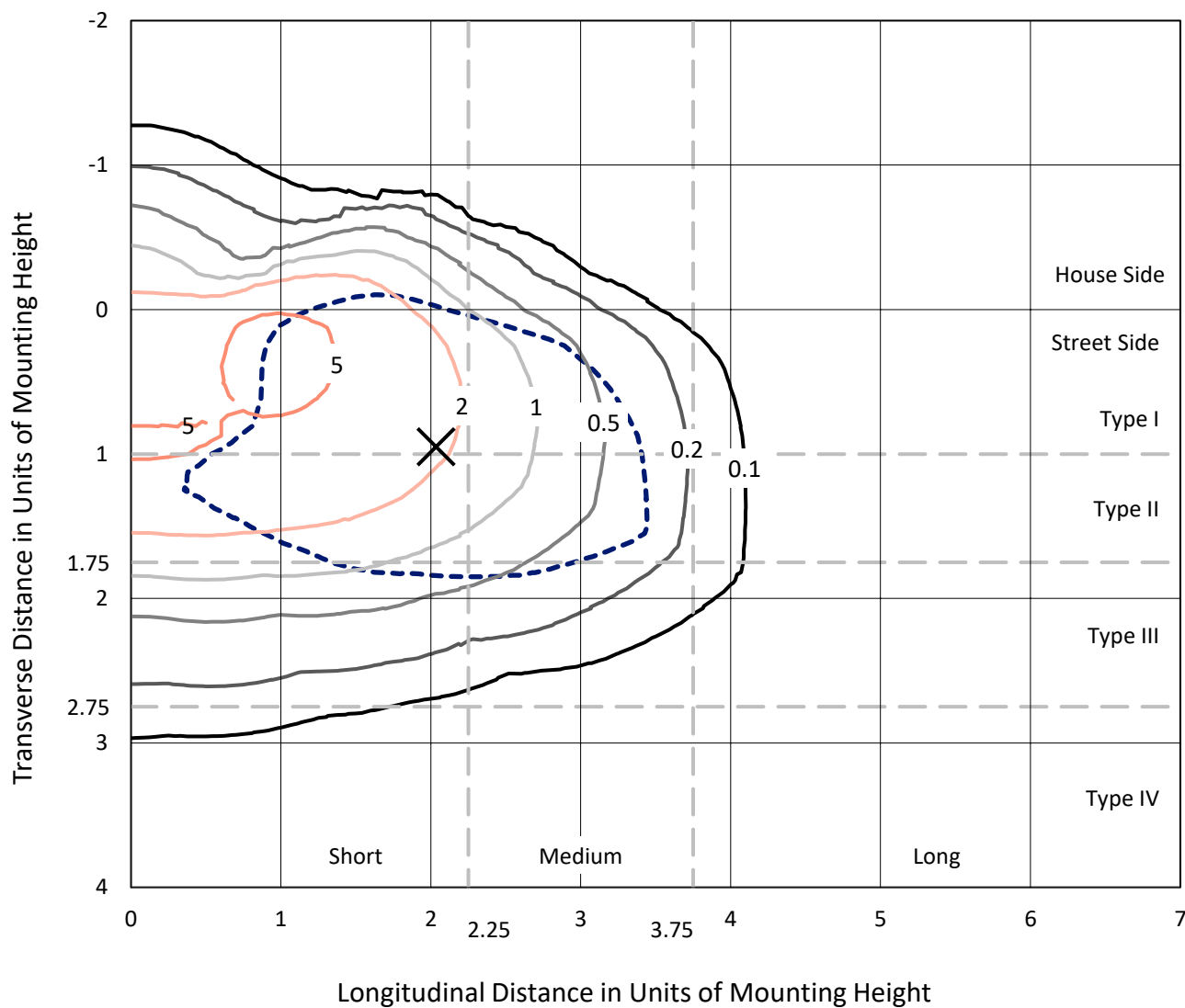
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Iso-Footcandle Lines of Horizontal Illumination

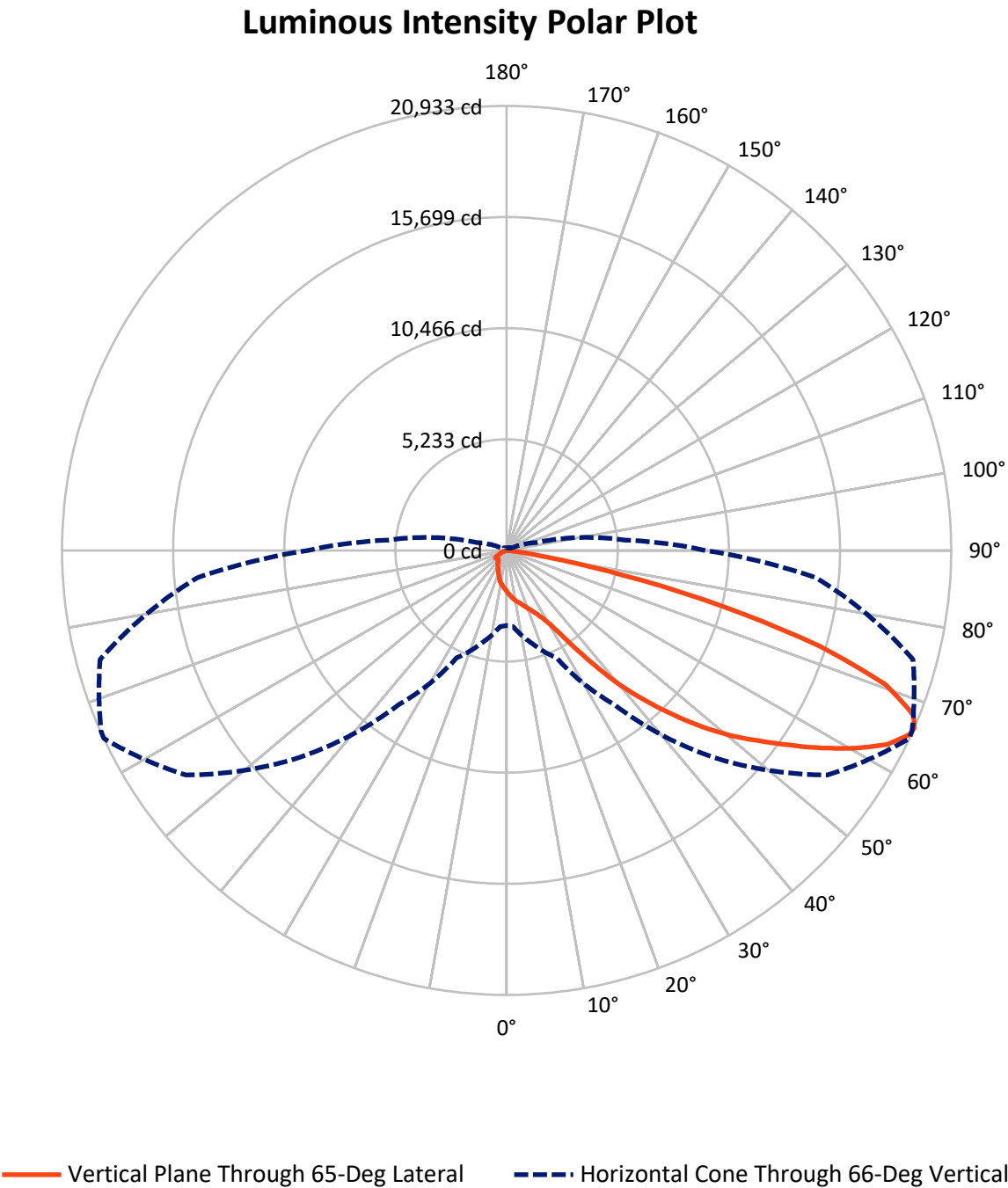
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

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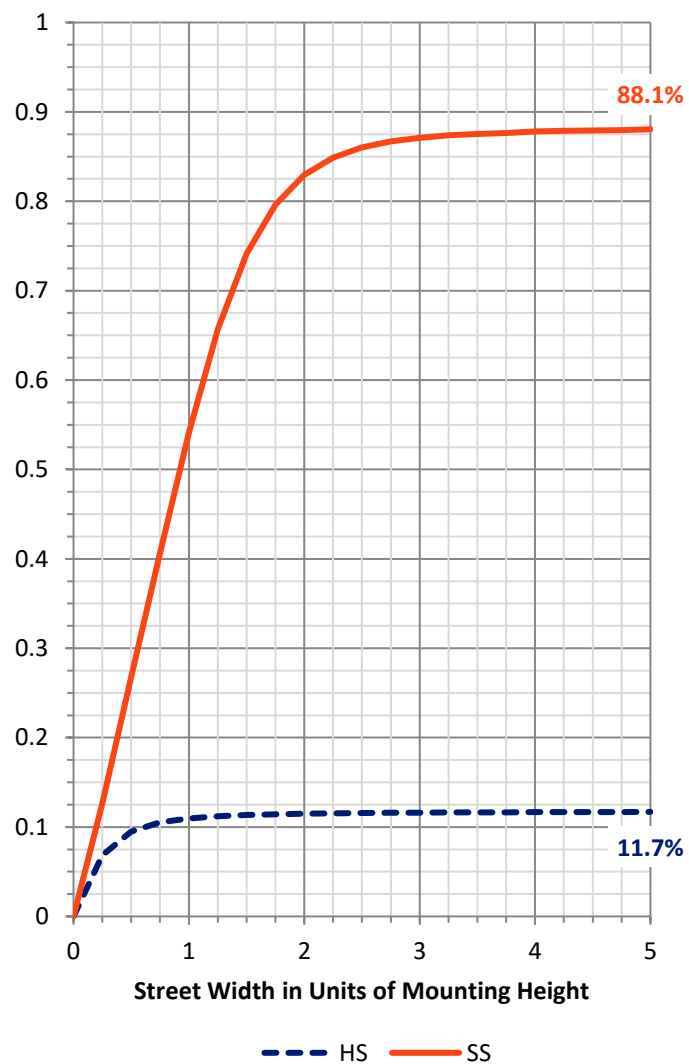
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2796.8	0.0	2796.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	20901.1	0.0	20901.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	23698.0	0.0	23698.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.0	0.8
10°-20°	541.8	2.3
20°-30°	991.7	4.2
30°-40°	2015.2	8.5
40°-50°	4255.5	18.0
50°-60°	6542.1	27.6
60°-70°	6585.1	27.8
70°-80°	2460.5	10.4
80°-90°	122.9	0.5
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°	23698.0	100.0
0°-180°	23698.0	100.0

Coefficient of Utilization



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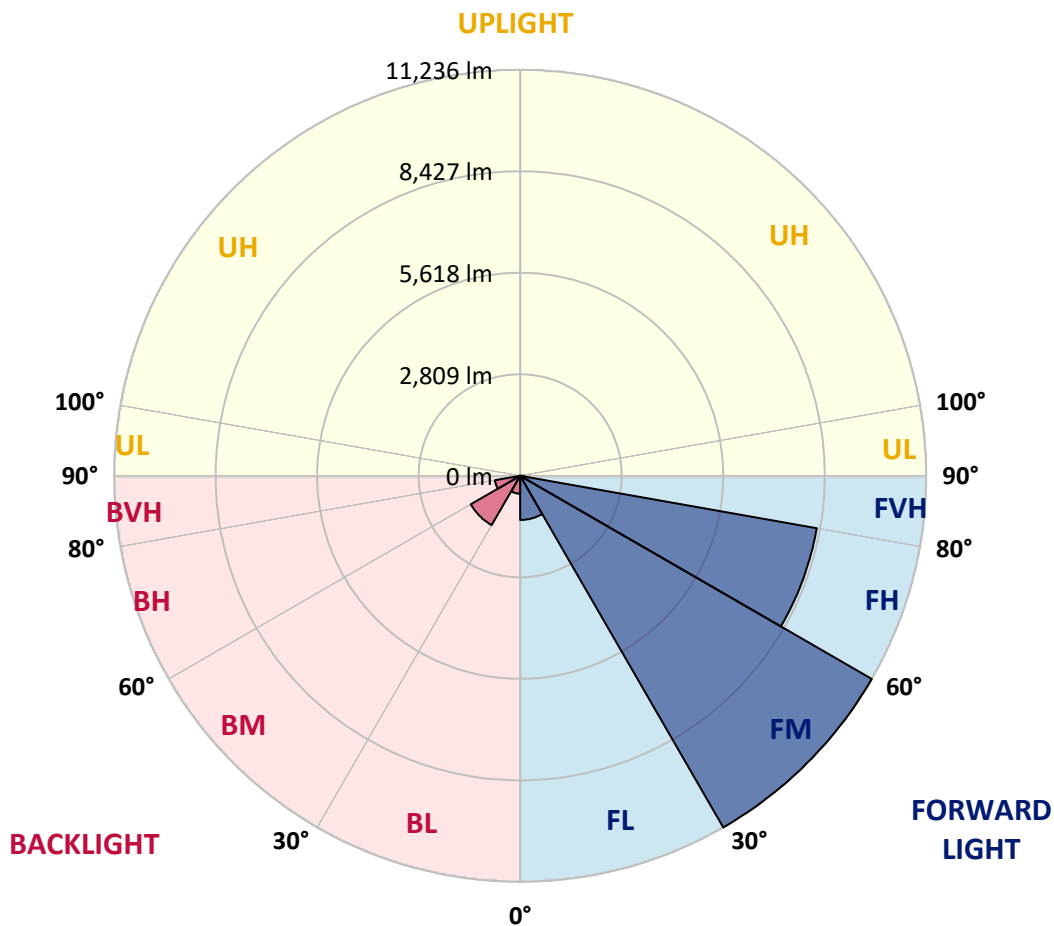
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1221.6	5.2			
FM	(30°-60°)	11235.9	47.4			
FH	(60°-80°)	8335.2	35.2			G4/12000
FVH	(80°-90°)	108.5	0.5			G2/225
BL	(0°-30°)	495.0	2.1	B1/500		
BM	(30°-60°)	1576.9	6.7	B2/2500		
BH	(60°-80°)	710.5	3.0	B2/1000		G2/1000
BVH	(80°-90°)	14.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7
2.5°	2201.6	2205.9	2197.3	2180.1	2162.9	2141.4	2107.0	2051.1	2042.5	2003.8	1960.8
5°	2352.1	2360.7	2347.8	2343.5	2334.9	2304.8	2257.5	2175.8	2167.2	2089.8	1990.9
7.5°	2403.7	2416.6	2408.0	2408.0	2408.0	2395.1	2373.6	2300.5	2287.6	2188.7	2038.2
10°	2442.4	2451.0	2446.7	2463.9	2476.8	2468.2	2455.3	2412.3	2399.4	2300.5	2102.7
12.5°	2502.6	2506.9	2511.2	2519.8	2541.3	2549.9	2545.6	2506.9	2498.3	2429.5	2184.4
15°	2558.5	2558.5	2562.8	2601.5	2631.6	2648.8	2653.1	2623.0	2614.4	2558.5	2287.6
17.5°	2610.1	2614.4	2627.3	2670.3	2721.9	2756.3	2777.8	2764.9	2752.0	2709.0	2408.0
20°	2687.5	2696.1	2709.0	2769.2	2820.8	2876.7	2919.7	2915.4	2911.1	2881.0	2549.9
22.5°	2820.8	2829.4	2850.9	2906.8	2958.4	3027.2	3100.3	3096.0	3083.1	3061.6	2717.6
25°	3022.9	3022.9	3035.8	3083.1	3147.6	3229.3	3298.1	3311.0	3298.1	3285.2	2928.3
27.5°	3276.6	3280.9	3280.9	3332.5	3392.7	3495.9	3581.9	3594.8	3594.8	3581.9	3212.1
30°	3629.2	3616.3	3607.7	3650.7	3715.2	3865.7	4016.2	4042.0	4029.1	4050.6	3612.0
32.5°	4235.5	4214.0	4140.9	4149.5	4188.2	4394.6	4648.3	4738.6	4734.3	4773.1	4257.0
35°	5074.1	5031.1	4923.6	4833.3	4829.0	5052.6	5439.6	5779.3	5775.0	5908.3	5237.5
37.5°	6020.1	6076.0	5873.9	5719.1	5671.8	5848.1	6346.9	7082.2	7120.9	7353.1	6523.2
40°	7284.3	7318.7	7060.7	6841.4	6617.8	6682.3	7340.2	8484.0	8552.8	8810.8	7808.9
42.5°	8385.1	8419.5	8269.0	8002.4	7718.6	7598.2	8342.1	9756.8	9812.7	10169.6	9133.3
45°	9133.3	9159.1	9210.7	9236.5	8914.0	8664.6	9567.6	11064.0	11132.8	11545.6	10427.6
47.5°	9718.1	9739.6	9842.8	10100.8	10036.3	9838.5	10814.6	12422.8	12440.0	12900.1	11687.5
50°	9989.0	10040.6	10294.3	10689.9	10973.7	11029.6	12169.1	13708.5	13755.8	14194.4	12878.6
52.5°	9688.0	9705.2	10345.9	11089.8	11661.7	12229.3	13527.9	14899.7	15037.3	15364.1	13949.3
55°	8673.2	8797.9	9769.7	11076.9	12203.5	13368.8	14981.4	16185.4	16310.1	16516.5	14891.1
57.5°	7495.0	7632.6	8815.1	10522.2	12435.7	14422.4	16327.3	17552.8	17638.8	17694.7	15755.4
60°	6475.9	6604.9	7821.8	9460.1	12203.5	15166.3	17578.6	18911.6	18984.7	18834.2	16189.7
62.5°	5224.6	5353.6	6579.1	8054.0	11291.9	15316.8	18507.4	20119.9	20150.0	19741.5	15923.1
65°	3938.8	4024.8	5048.3	6312.5	9696.6	14517.0	18718.1	20872.4	20842.3	20003.8	15123.3
66°	3530.3	3603.4	4506.4	5581.5	8866.7	13785.9	18434.3	20932.6	20902.5	19810.3	14598.7
67.5°	3044.4	3065.9	3809.8	4566.6	7417.6	12233.6	17570.0	20657.4	20683.2	19277.1	13639.7
70°	2377.9	2373.6	2803.6	3177.7	5065.5	8703.3	14654.6	18924.5	19049.2	17264.7	11631.6
72.5°	1522.2	1470.6	1720.0	1943.6	2949.8	5052.6	10685.6	15424.3	15635.0	13562.3	8664.6
75°	907.3	855.7	915.9	971.8	1414.7	2429.5	6282.4	10496.4	10698.5	8694.7	5155.8
77.5°	679.4	657.9	662.2	614.9	627.8	911.6	2868.1	5547.1	5693.3	3560.4	1956.5
80°	520.3	464.4	434.3	455.8	412.8	361.2	1066.4	1909.2	1999.5	842.8	408.5
82.5°	348.3	301.0	279.5	305.3	262.3	202.1	258.0	369.8	361.2	227.9	159.1
85°	180.6	154.8	154.8	154.8	133.3	98.9	111.8	150.5	150.5	120.4	94.6
87.5°	51.6	47.3	55.9	51.6	38.7	38.7	43.0	51.6	51.6	47.3	43.0
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°	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7
2.5°	1926.4	1909.2	1861.9	1827.5	1793.1	1763.0	1728.6	1720.0	1702.8	1707.1	1698.5
5°	1939.3	1892.0	1810.3	1732.9	1672.7	1621.1	1556.6	1530.8	1496.4	1483.5	1474.9
7.5°	1956.5	1887.7	1767.3	1659.8	1556.6	1453.4	1350.2	1290.0	1251.3	1234.1	1221.2
10°	1995.2	1904.9	1745.8	1578.1	1401.8	1255.6	1152.4	1109.4	1083.6	1079.3	1075.0
12.5°	2046.8	1930.7	1724.3	1474.9	1242.7	1105.1	1040.6	1027.7	1023.4	1023.4	1019.1
15°	2124.2	1973.7	1689.9	1354.5	1118.0	1023.4	993.3	971.8	963.2	963.2	963.2
17.5°	2201.6	2025.3	1638.3	1229.8	1032.0	971.8	941.7	928.8	920.2	924.5	920.2
20°	2300.5	2085.5	1569.5	1122.3	976.1	928.8	898.7	885.8	881.5	881.5	881.5
22.5°	2412.3	2154.3	1483.5	1040.6	928.8	885.8	855.7	842.8	834.2	838.5	838.5
25°	2562.8	2240.3	1393.2	958.9	881.5	842.8	808.4	791.2	791.2	795.5	799.8
27.5°	2756.3	2343.5	1302.9	907.3	838.5	799.8	761.1	743.9	748.2	756.8	756.8
30°	3040.1	2485.4	1212.6	851.4	791.2	748.2	713.8	696.6	705.2	722.4	722.4
32.5°	3444.3	2717.6	1135.2	786.9	722.4	675.1	640.7	627.8	649.3	683.7	683.7
35°	4166.7	3143.3	1087.9	722.4	649.3	593.4	550.4	537.5	567.6	610.6	610.6
37.5°	5134.3	3827.0	1105.1	666.5	589.1	524.6	477.3	460.1	481.6	520.3	533.2
40°	6213.6	4652.6	1255.6	619.2	533.2	468.7	421.4	404.2	417.1	434.3	438.6
42.5°	7292.9	5529.9	1539.4	584.8	490.2	421.4	378.4	365.5	374.1	378.4	382.7
45°	8367.9	6398.5	1896.3	563.3	451.5	382.7	339.7	339.7	344.0	344.0	344.0
47.5°	9387.0	7245.6	2270.4	559.0	417.1	344.0	309.6	313.9	313.9	318.2	318.2
50°	10350.2	8002.4	2648.8	571.9	387.0	309.6	283.8	283.8	283.8	288.1	283.8
52.5°	11154.3	8664.6	3044.4	593.4	356.9	283.8	258.0	258.0	258.0	262.3	258.0
55°	11915.4	9266.6	3448.6	623.5	331.1	262.3	236.5	227.9	227.9	232.2	227.9
57.5°	12534.6	9666.5	3831.3	627.8	309.6	240.8	219.3	206.4	206.4	206.4	206.4
60°	12560.4	9434.3	3943.1	550.4	283.8	219.3	197.8	180.6	184.9	184.9	184.9
62.5°	11739.1	8213.1	3169.1	412.8	253.7	197.8	180.6	163.4	163.4	163.4	163.4
65°	10126.6	6389.9	1857.6	326.8	219.3	176.3	159.1	146.2	146.2	146.2	141.9
66°	9369.8	5603.0	1423.3	296.7	206.4	172.0	154.8	141.9	137.6	133.3	133.3
67.5°	8135.7	4429.0	890.1	262.3	189.2	159.1	141.9	129.0	124.7	120.4	120.4
70°	6127.6	2812.2	434.3	202.1	163.4	137.6	124.7	111.8	107.5	103.2	98.9
72.5°	4300.0	1646.9	227.9	154.8	133.3	120.4	107.5	94.6	90.3	86.0	86.0
75°	2429.5	795.5	150.5	111.8	107.5	98.9	90.3	77.4	73.1	73.1	73.1
77.5°	920.2	275.2	103.2	81.7	86.0	77.4	64.5	64.5	60.2	64.5	60.2
80°	240.8	120.4	64.5	60.2	64.5	55.9	47.3	51.6	51.6	51.6	51.6
82.5°	129.0	68.8	38.7	43.0	38.7	38.7	30.1	34.4	38.7	34.4	38.7
85°	90.3	34.4	21.5	21.5	17.2	17.2	12.9	17.2	21.5	17.2	17.2
87.5°	47.3	12.9	12.9	12.9	12.9	8.6	4.3	0.0	4.3	4.3	4.3
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)