

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: P1210932

Luminaire Tested: **ARCH4-120-722-U-T2RE-HSS**

Issue Date: 11/5/2025

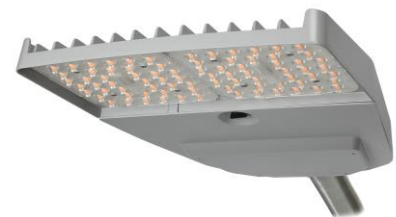
Test Information

Test Method: LM-79-08
Report Number: P1210932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-120-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12474 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 122
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

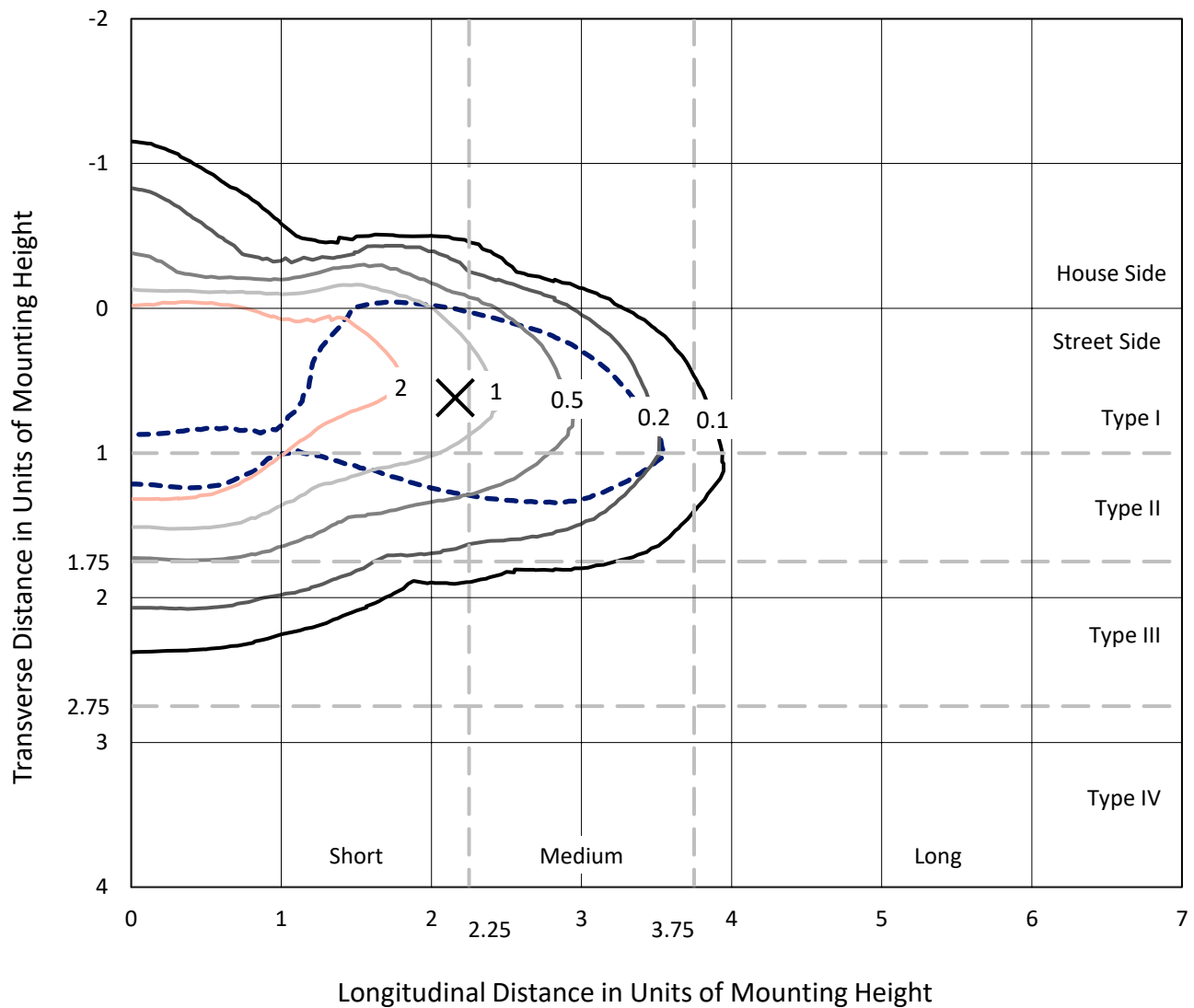


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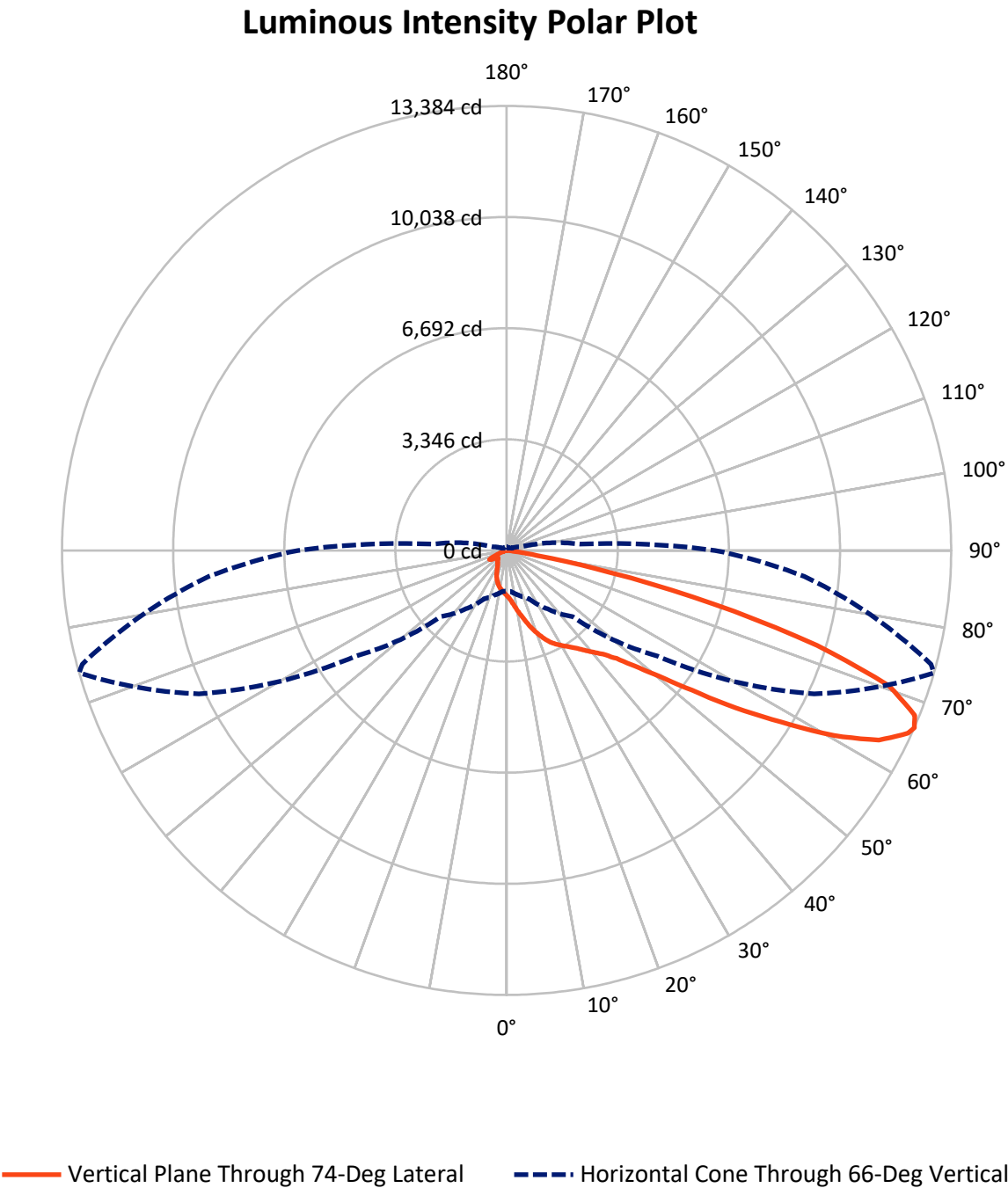
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
Type II - Short - N/A

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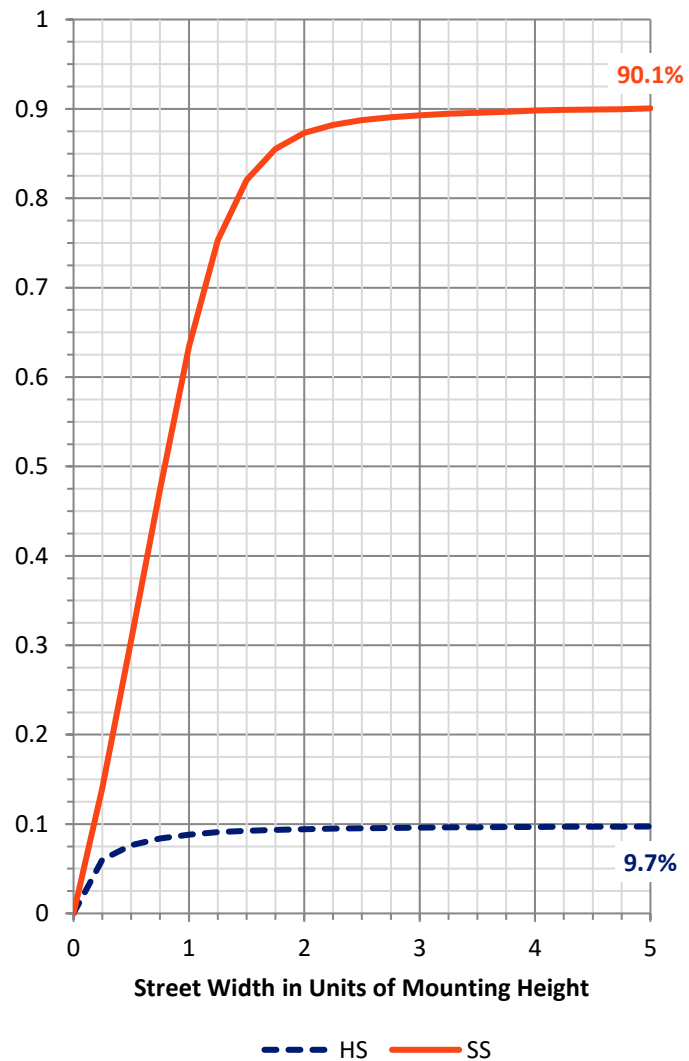
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1222.8	0.0	1222.8
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	11251.1	0.0	11251.1
	% Fixture	90.2	0.0	90.2
Total	Lumens	12474.0	0.0	12474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.9	1.1
10°-20°	426.1	3.4
20°-30°	813.1	6.5
30°-40°	1425.2	11.4
40°-50°	2443.9	19.6
50°-60°	3178.5	25.5
60°-70°	2877.3	23.1
70°-80°	1110.2	8.9
80°-90°	66.8	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°	12474.0	100.0
0°-180°	12474.0	100.0

Coefficient of Utilization



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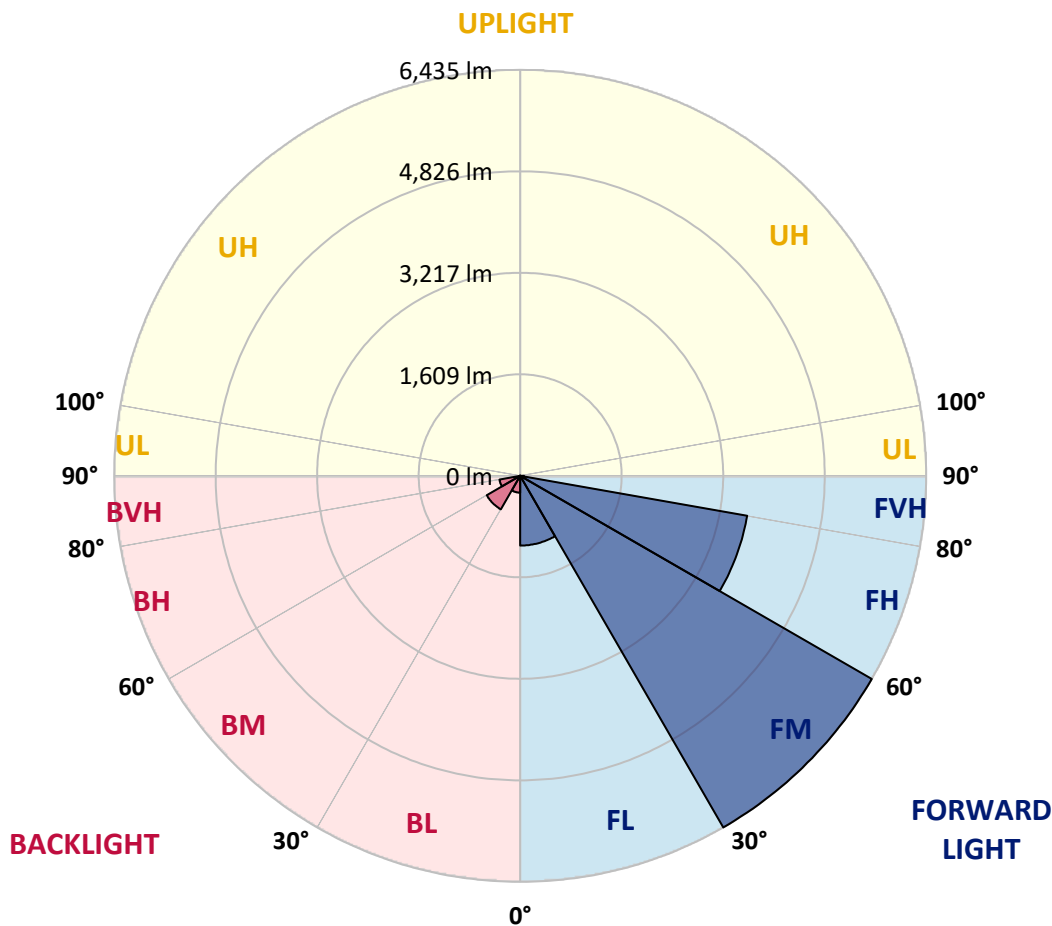
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1105.4	8.9			
FM	(30°-60°)	6434.7	51.6			
FH	(60°-80°)	3653.2	29.3			G2/5000
FVH	(80°-90°)	57.9	0.5			G1/100
BL	(0°-30°)	266.7	2.1	B1/500		
BM	(30°-60°)	612.8	4.9	B1/1000		
BH	(60°-80°)	334.3	2.7	B1/500		G1/500
BVH	(80°-90°)	9.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1361.6	1361.6	1361.6	1361.6	1361.6	1361.6	1361.6	1361.6	1361.6	1361.6	1361.6
2.5°	1634.9	1621.4	1596.8	1594.6	1574.4	1549.8	1507.2	1462.4	1431.1	1426.6	1388.5
5°	1957.4	1950.6	1926.0	1910.3	1872.3	1814.0	1715.5	1617.0	1534.1	1525.1	1440.0
7.5°	2042.5	2046.9	2051.4	2067.1	2053.7	2026.8	1952.9	1814.0	1684.1	1664.0	1516.2
10°	2055.9	2051.4	2051.4	2071.6	2109.7	2147.7	2138.8	2020.1	1852.1	1827.5	1621.4
12.5°	2201.5	2208.2	2192.5	2183.6	2176.8	2197.0	2264.2	2212.7	2029.0	2008.9	1749.1
15°	2389.6	2387.4	2365.0	2365.0	2344.8	2311.2	2353.8	2391.8	2241.8	2217.2	1894.7
17.5°	2526.2	2535.2	2532.9	2546.4	2539.6	2494.9	2472.5	2550.8	2461.3	2429.9	2060.4
20°	2635.9	2660.6	2669.5	2712.1	2732.2	2700.9	2642.7	2691.9	2671.8	2642.7	2228.3
22.5°	2752.4	2772.6	2788.2	2862.1	2918.1	2911.4	2837.5	2826.3	2875.6	2848.7	2394.1
25°	2868.9	2877.8	2924.8	3014.4	3104.0	3126.4	3050.3	2962.9	3059.2	3034.6	2541.9
27.5°	2996.5	3001.0	3057.0	3166.7	3292.1	3339.2	3278.7	3117.5	3200.3	3200.3	2676.3
30°	3229.4	3274.2	3296.6	3395.2	3504.9	3569.8	3498.2	3280.9	3325.7	3345.9	2817.4
32.5°	3731.1	3737.8	3731.1	3773.6	3796.0	3834.1	3751.2	3464.6	3453.4	3475.8	2956.2
35°	4497.0	4470.1	4398.5	4335.8	4205.9	4134.2	4026.7	3699.7	3610.2	3641.5	3092.8
37.5°	5426.4	5388.4	5224.9	5032.3	4754.6	4467.9	4333.5	3986.4	3809.5	3849.8	3240.6
40°	6313.3	6288.6	6093.8	5856.4	5381.6	4891.2	4606.7	4228.3	4031.2	4046.9	3390.7
42.5°	7043.4	7038.9	6875.4	6626.8	6017.7	5348.0	4929.2	4465.7	4264.1	4288.7	3547.4
45°	7596.5	7554.0	7433.1	7253.9	6633.5	5822.8	5318.9	4826.2	4638.1	4667.2	3782.6
47.5°	7596.5	7603.3	7681.6	7663.7	7063.5	6268.5	5744.4	5280.9	5191.3	5218.1	4170.0
50°	6978.4	7041.1	7390.5	7683.9	7287.5	6615.6	6203.5	5849.7	5941.5	5981.8	4846.4
52.5°	5755.6	5860.9	6467.8	7137.4	7121.8	6790.3	6678.3	6573.1	6985.1	7056.8	5845.2
55°	4373.8	4443.3	5233.8	6114.0	6400.6	6647.0	7092.6	7491.3	8366.9	8351.3	6859.7
57.5°	3267.5	3332.4	4013.3	4989.7	5368.2	6026.6	7305.4	8541.6	9737.6	9798.0	7811.5
60°	2403.0	2452.3	3032.3	3834.1	4380.6	5077.1	7220.3	9576.3	11316.4	11247.0	8651.4
62.5°	1778.2	1805.1	2223.9	2745.7	3471.3	4136.4	6685.0	10284.0	12577.3	12436.2	9119.4
65°	1375.1	1384.0	1601.3	1879.0	2524.0	3216.0	5887.8	10391.5	13273.8	13123.7	9110.5
66°	1225.0	1231.8	1390.8	1605.8	2147.7	2815.1	5538.4	10219.1	13383.5	13224.5	8998.5
67.5°	1028.0	1023.5	1117.5	1258.6	1612.5	2172.4	4918.0	9715.2	13253.6	13173.0	8640.2
70°	761.4	763.7	810.7	844.3	942.8	1202.6	3551.9	8427.4	12214.5	12210.0	7657.0
72.5°	564.4	571.1	606.9	613.6	589.0	651.7	2046.9	6703.0	9771.1	9773.4	5724.3
75°	423.3	434.5	445.7	450.1	427.8	412.1	924.9	4510.4	6427.5	6380.5	3240.6
77.5°	322.5	327.0	335.9	329.2	324.7	284.4	385.2	2199.2	3173.4	2891.3	1050.3
80°	235.2	235.2	244.1	235.2	232.9	203.8	210.5	705.5	931.7	774.9	226.2
82.5°	147.8	145.6	152.3	150.0	145.6	129.9	123.2	197.1	215.0	192.6	109.7
85°	82.9	80.6	78.4	76.1	69.4	58.2	67.2	73.9	98.5	100.8	78.4
87.5°	29.1	29.1	26.9	24.6	20.2	20.2	24.6	24.6	35.8	35.8	40.3
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°	1361.6	1361.6	1361.6	1361.6	1361.6	1361.6	1361.6	1361.6	1361.6	1361.6	1361.6
2.5°	1370.6	1346.0	1310.1	1263.1	1229.5	1195.9	1160.1	1139.9	1110.8	1104.1	1113.1
5°	1395.2	1350.4	1260.9	1162.3	1077.2	1001.1	929.4	886.9	844.3	828.6	835.4
7.5°	1446.7	1370.6	1218.3	1059.3	918.2	804.0	718.9	669.6	631.6	615.9	620.4
10°	1522.9	1406.4	1178.0	942.8	761.4	640.5	568.8	537.5	515.1	506.1	508.4
12.5°	1614.7	1457.9	1126.5	826.4	627.1	521.8	488.2	481.5	477.0	472.5	474.8
15°	1717.7	1502.7	1066.0	712.2	521.8	463.6	452.4	450.1	447.9	447.9	447.9
17.5°	1825.2	1543.0	998.8	604.7	454.6	427.8	421.0	421.0	421.0	423.3	423.3
20°	1926.0	1574.4	920.5	508.4	416.6	394.2	389.7	389.7	391.9	394.2	394.2
22.5°	2024.6	1587.8	828.6	441.2	385.2	365.0	358.3	358.3	358.3	360.6	360.6
25°	2109.7	1587.8	736.8	398.6	358.3	338.2	329.2	327.0	329.2	329.2	329.2
27.5°	2181.3	1581.1	647.2	369.5	331.5	311.3	302.3	300.1	304.6	306.8	306.8
30°	2257.5	1572.2	575.6	342.7	309.1	288.9	279.9	279.9	286.7	295.6	295.6
32.5°	2331.4	1578.9	519.6	320.3	286.7	271.0	262.0	264.3	277.7	291.1	291.1
35°	2409.8	1592.3	486.0	304.6	271.0	255.3	248.6	255.3	268.7	282.2	282.2
37.5°	2488.1	1608.0	465.8	291.1	257.5	241.9	237.4	246.4	262.0	275.5	277.7
40°	2571.0	1621.4	443.4	277.7	248.6	230.7	228.4	237.4	257.5	271.0	273.2
42.5°	2674.0	1648.3	416.6	266.5	239.6	217.2	219.5	226.2	246.4	266.5	268.7
45°	2875.6	1733.4	389.7	255.3	228.4	210.5	206.0	210.5	232.9	255.3	259.8
47.5°	3254.1	1926.0	360.6	244.1	217.2	206.0	188.1	192.6	212.8	237.4	239.6
50°	3979.7	2335.8	344.9	232.9	208.3	190.4	170.2	170.2	185.9	208.3	208.3
52.5°	5110.6	3070.4	353.8	224.0	197.1	174.7	154.5	152.3	161.2	176.9	176.9
55°	6331.2	3876.7	387.4	215.0	183.6	165.7	143.3	132.1	138.9	147.8	147.8
57.5°	7298.7	4282.0	479.3	210.5	168.0	159.0	129.9	114.2	120.9	129.9	129.9
60°	7724.2	4044.6	582.3	215.0	156.8	147.8	116.5	100.8	112.0	120.9	123.2
62.5°	7379.3	3330.2	624.8	203.8	141.1	132.1	114.2	94.1	107.5	114.2	116.5
65°	6633.5	2530.7	488.2	176.9	129.9	114.2	103.0	89.6	100.8	107.5	107.5
66°	6279.7	2206.0	416.6	163.5	125.4	107.5	98.5	89.6	98.5	103.0	105.3
67.5°	5731.0	1740.1	309.1	143.3	116.5	98.5	91.8	85.1	94.1	98.5	98.5
70°	4481.3	1036.9	185.9	112.0	100.8	87.3	82.9	78.4	85.1	87.3	87.3
72.5°	2806.2	492.7	118.7	82.9	85.1	82.9	69.4	73.9	76.1	78.4	78.4
75°	1359.4	194.8	80.6	60.5	69.4	78.4	56.0	64.9	67.2	71.7	69.4
77.5°	378.5	94.1	51.5	44.8	60.5	60.5	42.6	51.5	60.5	76.1	69.4
80°	109.7	60.5	33.6	33.6	42.6	42.6	29.1	35.8	40.3	44.8	47.0
82.5°	76.1	40.3	22.4	24.6	24.6	26.9	17.9	17.9	22.4	22.4	24.6
85°	60.5	17.9	13.4	15.7	11.2	13.4	9.0	9.0	11.2	9.0	9.0
87.5°	24.6	9.0	9.0	9.0	6.7	6.7	4.5	2.2	2.2	2.2	2.2
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)