

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: P1211354

Luminaire Tested: **ARCH4-250-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211354
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: ARCH4-250-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

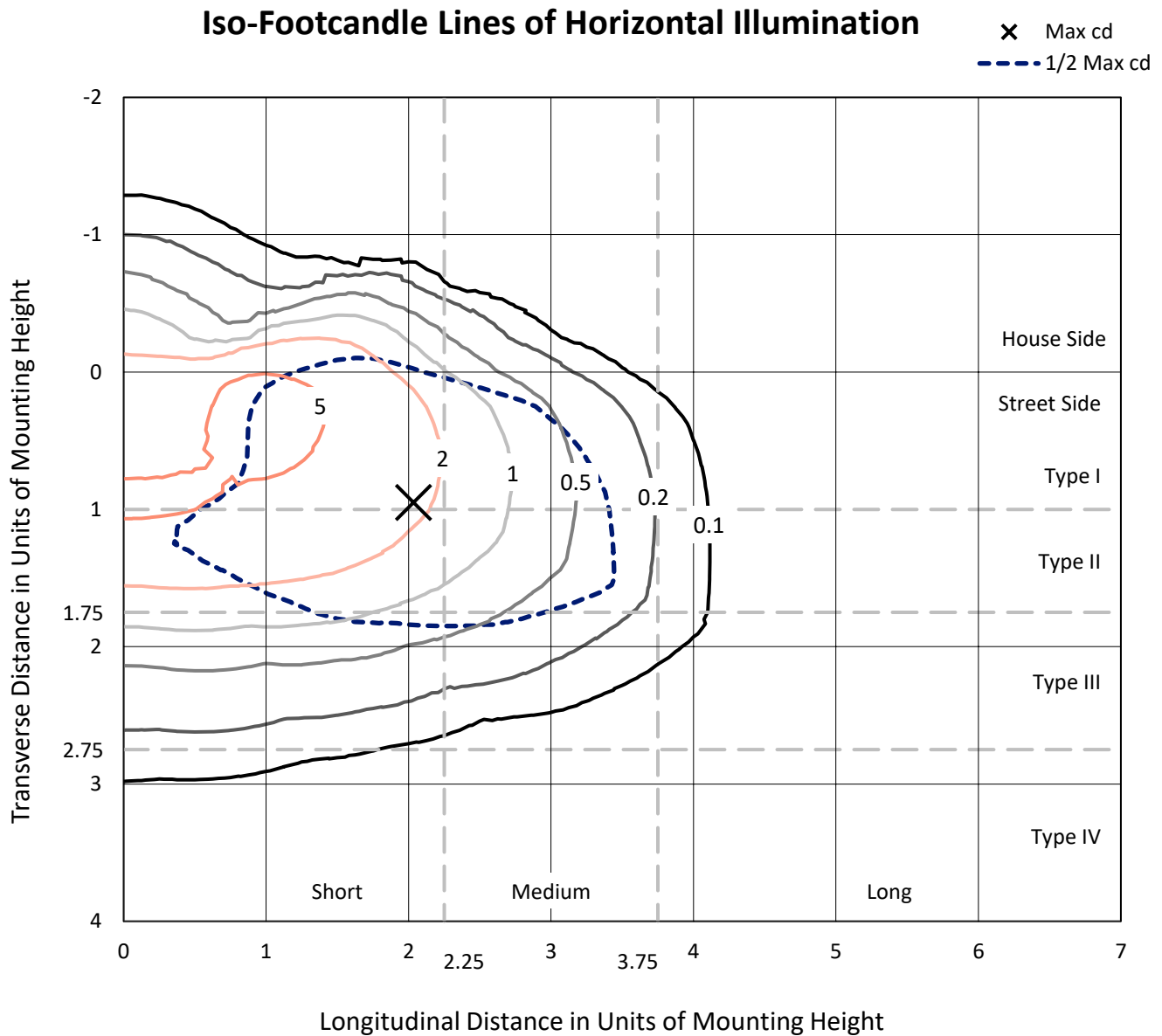
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24386 lumens
Efficiency: N/A
Efficacy: 97.7 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): 249.5
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

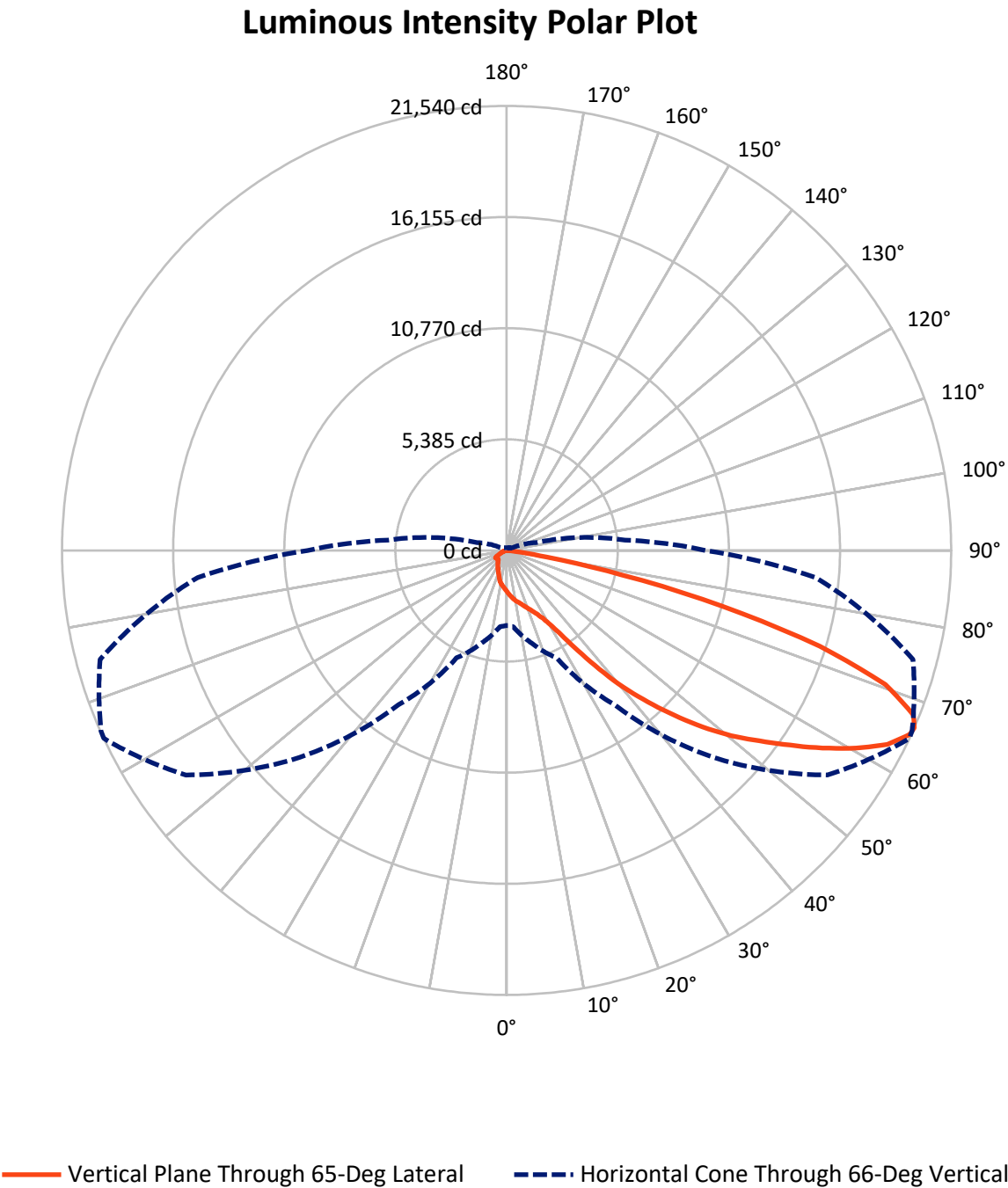


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Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
Type III - Short - N/A

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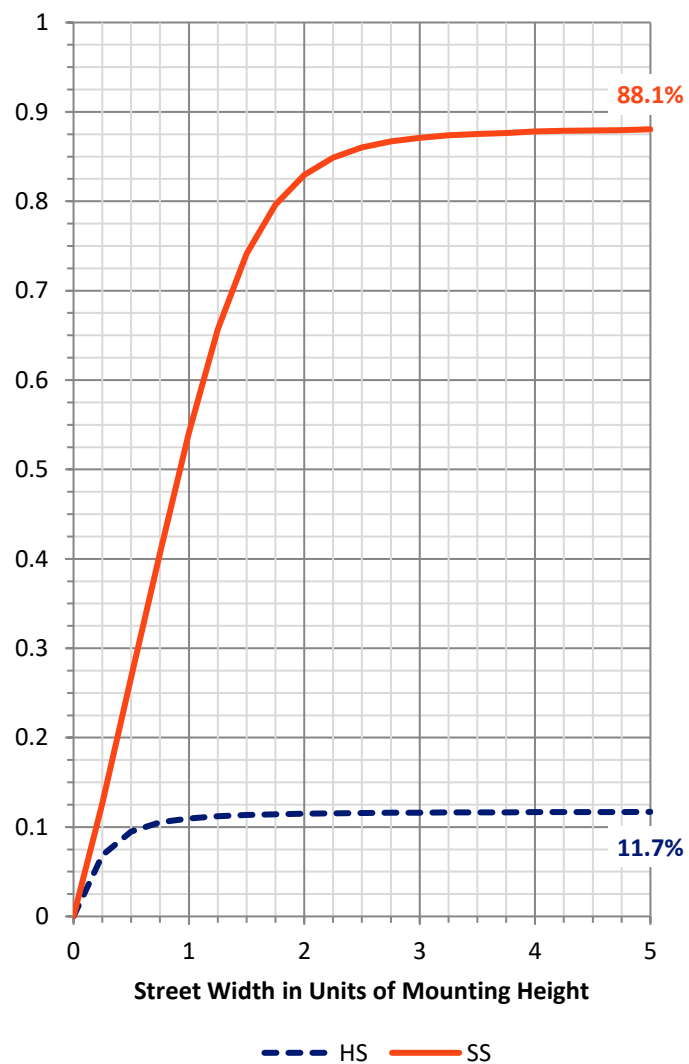
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2878.0	0.0	2878.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	21507.9	0.0	21507.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	24386.0	0.0	24386.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.4	0.8
10°-20°	557.6	2.3
20°-30°	1020.5	4.2
30°-40°	2073.7	8.5
40°-50°	4379.1	18.0
50°-60°	6732.0	27.6
60°-70°	6776.3	27.8
70°-80°	2532.0	10.4
80°-90°	126.5	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°	24386.0	100.0
0°-180°	24386.0	100.0

Coefficient of Utilization



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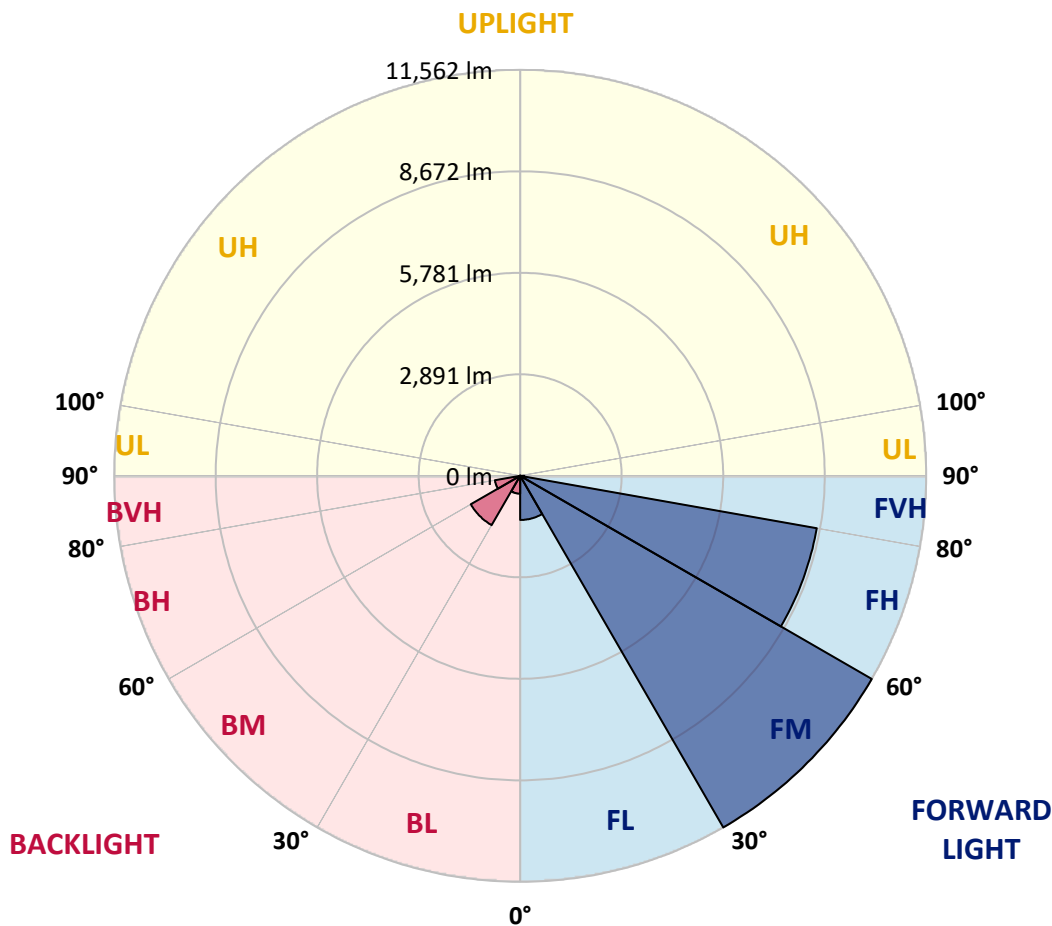
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1257.1	5.2			
FM	(30°-60°)	11562.1	47.4			
FH	(60°-80°)	8577.1	35.2			G4/12000
FVH	(80°-90°)	111.6	0.5			G2/225
BL	(0°-30°)	509.4	2.1	B2/1000		
BM	(30°-60°)	1622.7	6.7	B2/2500		
BH	(60°-80°)	731.1	3.0	B2/1000		G2/1000
BVH	(80°-90°)	14.9	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°	1986.8	1986.8	1986.8	1986.8	1986.8	1986.8	1986.8	1986.8	1986.8	1986.8	1986.8
2.5°	2265.5	2270.0	2261.1	2243.4	2225.7	2203.6	2168.2	2110.7	2101.8	2062.0	2017.7
5°	2420.4	2429.3	2416.0	2411.6	2402.7	2371.7	2323.1	2239.0	2230.1	2150.5	2048.7
7.5°	2473.5	2486.8	2477.9	2477.9	2477.9	2464.7	2442.5	2367.3	2354.0	2252.3	2097.4
10°	2513.3	2522.2	2517.8	2535.5	2548.7	2539.9	2526.6	2482.4	2469.1	2367.3	2163.8
12.5°	2575.3	2579.7	2584.1	2593.0	2615.1	2624.0	2619.5	2579.7	2570.9	2500.1	2247.8
15°	2632.8	2632.8	2637.2	2677.1	2708.0	2725.7	2730.2	2699.2	2690.3	2632.8	2354.0
17.5°	2685.9	2690.3	2703.6	2747.9	2801.0	2836.4	2858.5	2845.2	2831.9	2787.7	2477.9
20°	2765.6	2774.4	2787.7	2849.6	2902.7	2960.2	3004.5	3000.1	2995.6	2964.7	2624.0
22.5°	2902.7	2911.6	2933.7	2991.2	3044.3	3115.1	3190.3	3185.9	3172.6	3150.5	2796.5
25°	3110.7	3110.7	3124.0	3172.6	3239.0	3323.1	3393.9	3407.2	3393.9	3380.6	3013.3
27.5°	3371.8	3376.2	3376.2	3429.3	3491.2	3597.4	3685.9	3699.2	3699.2	3685.9	3305.4
30°	3734.6	3721.3	3712.5	3756.7	3823.1	3978.0	4132.8	4159.4	4146.1	4168.2	3716.9
32.5°	4358.5	4336.4	4261.2	4270.0	4309.8	4522.2	4783.3	4876.2	4871.8	4911.6	4380.6
35°	5221.4	5177.1	5066.5	4973.6	4969.1	5199.2	5597.5	5947.0	5942.6	6079.8	5389.5
37.5°	6194.8	6252.4	6044.4	5885.1	5836.4	6017.8	6531.1	7287.8	7327.6	7566.6	6712.5
40°	7495.8	7531.2	7265.7	7040.0	6809.9	6876.3	7553.3	8730.3	8801.1	9066.6	8035.6
42.5°	8628.5	8663.9	8509.1	8234.7	7942.7	7818.8	8584.3	10040.1	10097.6	10464.9	9398.5
45°	9398.5	9425.0	9478.1	9504.7	9172.8	8916.1	9845.4	11385.2	11456.0	11880.8	10730.3
47.5°	10000.2	10022.4	10128.6	10394.1	10327.7	10124.1	11128.6	12783.5	12801.2	13274.7	12026.8
50°	10279.0	10332.1	10593.2	11000.3	11292.3	11349.8	12522.4	14106.5	14155.2	14606.5	13252.5
52.5°	9969.3	9987.0	10646.3	11411.8	12000.3	12584.4	13920.7	15332.2	15473.8	15810.1	14354.3
55°	8925.0	9053.3	10053.3	11398.5	12557.8	13757.0	15416.3	16655.3	16783.6	16996.0	15323.4
57.5°	7712.6	7854.2	9071.0	10827.7	12796.8	14841.1	16801.3	18062.4	18150.9	18208.4	16212.8
60°	6663.9	6796.6	8048.9	9734.7	12557.8	15606.6	18088.9	19460.6	19535.9	19381.0	16659.7
62.5°	5376.2	5509.0	6770.1	8287.8	11619.7	15761.4	19044.7	20704.0	20735.0	20314.6	16385.3
65°	4053.2	4141.7	5194.8	6495.7	9978.1	14938.4	19261.5	21478.4	21447.4	20584.6	15562.3
66°	3632.8	3708.1	4637.3	5743.5	9124.1	14186.2	18969.5	21540.3	21509.4	20385.4	15022.5
67.5°	3132.8	3154.9	3920.4	4699.2	7632.9	12588.8	18080.1	21257.1	21283.7	19836.8	14035.7
70°	2447.0	2442.5	2885.0	3270.0	5212.5	8956.0	15080.0	19473.9	19602.2	17765.9	11969.3
72.5°	1566.4	1513.3	1770.0	2000.0	3035.5	5199.2	10995.8	15872.1	16088.9	13956.1	8916.1
75°	933.7	880.6	942.5	1000.0	1455.8	2500.1	6464.8	10801.1	11009.1	8947.1	5305.4
77.5°	699.1	677.0	681.4	632.8	646.0	938.1	2951.4	5708.1	5858.5	3663.8	2013.3
80°	535.4	477.9	446.9	469.0	424.8	371.7	1097.4	1964.6	2057.6	867.3	420.4
82.5°	358.4	309.7	287.6	314.2	269.9	208.0	265.5	380.5	371.7	234.5	163.7
85°	185.8	159.3	159.3	159.3	137.2	101.8	115.0	154.9	154.9	123.9	97.3
87.5°	53.1	48.7	57.5	53.1	39.8	39.8	44.2	53.1	53.1	48.7	44.2
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°	1986.8	1986.8	1986.8	1986.8	1986.8	1986.8	1986.8	1986.8	1986.8	1986.8	1986.8
2.5°	1982.3	1964.6	1916.0	1880.6	1845.2	1814.2	1778.8	1770.0	1752.3	1756.7	1747.8
5°	1995.6	1946.9	1862.9	1783.2	1721.3	1668.2	1601.8	1575.3	1539.9	1526.6	1517.7
7.5°	2013.3	1942.5	1818.6	1708.0	1601.8	1495.6	1389.4	1327.5	1287.6	1269.9	1256.7
10°	2053.1	1960.2	1796.5	1623.9	1442.5	1292.1	1185.9	1141.6	1115.1	1110.6	1106.2
12.5°	2106.2	1986.8	1774.4	1517.7	1278.8	1137.2	1070.8	1057.5	1053.1	1053.1	1048.7
15°	2185.9	2031.0	1739.0	1393.8	1150.5	1053.1	1022.1	1000.0	991.2	991.2	991.2
17.5°	2265.5	2084.1	1685.9	1265.5	1062.0	1000.0	969.0	955.8	946.9	951.4	946.9
20°	2367.3	2146.1	1615.1	1154.9	1004.4	955.8	924.8	911.5	907.1	907.1	907.1
22.5°	2482.4	2216.9	1526.6	1070.8	955.8	911.5	880.6	867.3	858.4	862.9	862.9
25°	2637.2	2305.4	1433.7	986.7	907.1	867.3	831.9	814.2	814.2	818.6	823.0
27.5°	2836.4	2411.6	1340.7	933.7	862.9	823.0	783.2	765.5	769.9	778.8	778.8
30°	3128.4	2557.6	1247.8	876.1	814.2	769.9	734.5	716.8	725.7	743.4	743.4
32.5°	3544.3	2796.5	1168.2	809.8	743.4	694.7	659.3	646.0	668.2	703.6	703.6
35°	4287.7	3234.6	1119.5	743.4	668.2	610.6	566.4	553.1	584.1	628.3	628.3
37.5°	5283.3	3938.1	1137.2	685.9	606.2	539.8	491.2	473.5	495.6	535.4	548.7
40°	6394.0	4787.7	1292.1	637.2	548.7	482.3	433.6	415.9	429.2	446.9	451.3
42.5°	7504.6	5690.4	1584.1	601.8	504.4	433.6	389.4	376.1	385.0	389.4	393.8
45°	8610.8	6584.2	1951.4	579.7	464.6	393.8	349.6	349.6	354.0	354.0	354.0
47.5°	9659.5	7455.9	2336.3	575.2	429.2	354.0	318.6	323.0	323.0	327.4	327.4
50°	10650.7	8234.7	2725.7	588.5	398.2	318.6	292.0	292.0	292.0	296.5	292.0
52.5°	11478.1	8916.1	3132.8	610.6	367.3	292.0	265.5	265.5	265.5	269.9	265.5
55°	12261.4	9535.6	3548.8	641.6	340.7	269.9	243.4	234.5	234.5	238.9	234.5
57.5°	12898.5	9947.1	3942.6	646.0	318.6	247.8	225.7	212.4	212.4	212.4	212.4
60°	12925.1	9708.2	4057.6	566.4	292.0	225.7	203.5	185.8	190.3	190.3	190.3
62.5°	12079.9	8451.5	3261.1	424.8	261.1	203.5	185.8	168.1	168.1	168.1	168.1
65°	10420.6	6575.4	1911.5	336.3	225.7	181.4	163.7	150.4	150.4	150.4	146.0
66°	9641.8	5765.6	1464.6	305.3	212.4	177.0	159.3	146.0	141.6	137.2	137.2
67.5°	8371.9	4557.6	916.0	269.9	194.7	163.7	146.0	132.7	128.3	123.9	123.9
70°	6305.5	2893.9	446.9	208.0	168.1	141.6	128.3	115.0	110.6	106.2	101.8
72.5°	4424.9	1694.7	234.5	159.3	137.2	123.9	110.6	97.3	92.9	88.5	88.5
75°	2500.1	818.6	154.9	115.0	110.6	101.8	92.9	79.6	75.2	75.2	75.2
77.5°	946.9	283.2	106.2	84.1	88.5	79.6	66.4	66.4	61.9	66.4	61.9
80°	247.8	123.9	66.4	61.9	66.4	57.5	48.7	53.1	53.1	53.1	53.1
82.5°	132.7	70.8	39.8	44.2	39.8	39.8	31.0	35.4	39.8	35.4	39.8
85°	92.9	35.4	22.1	22.1	17.7	17.7	13.3	17.7	22.1	17.7	17.7
87.5°	48.7	13.3	13.3	13.3	13.3	8.8	4.4	0.0	4.4	4.4	4.4
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)