

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: P1210550

Luminaire Tested: **ARCH3-160-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210550
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: ARCH3-160-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

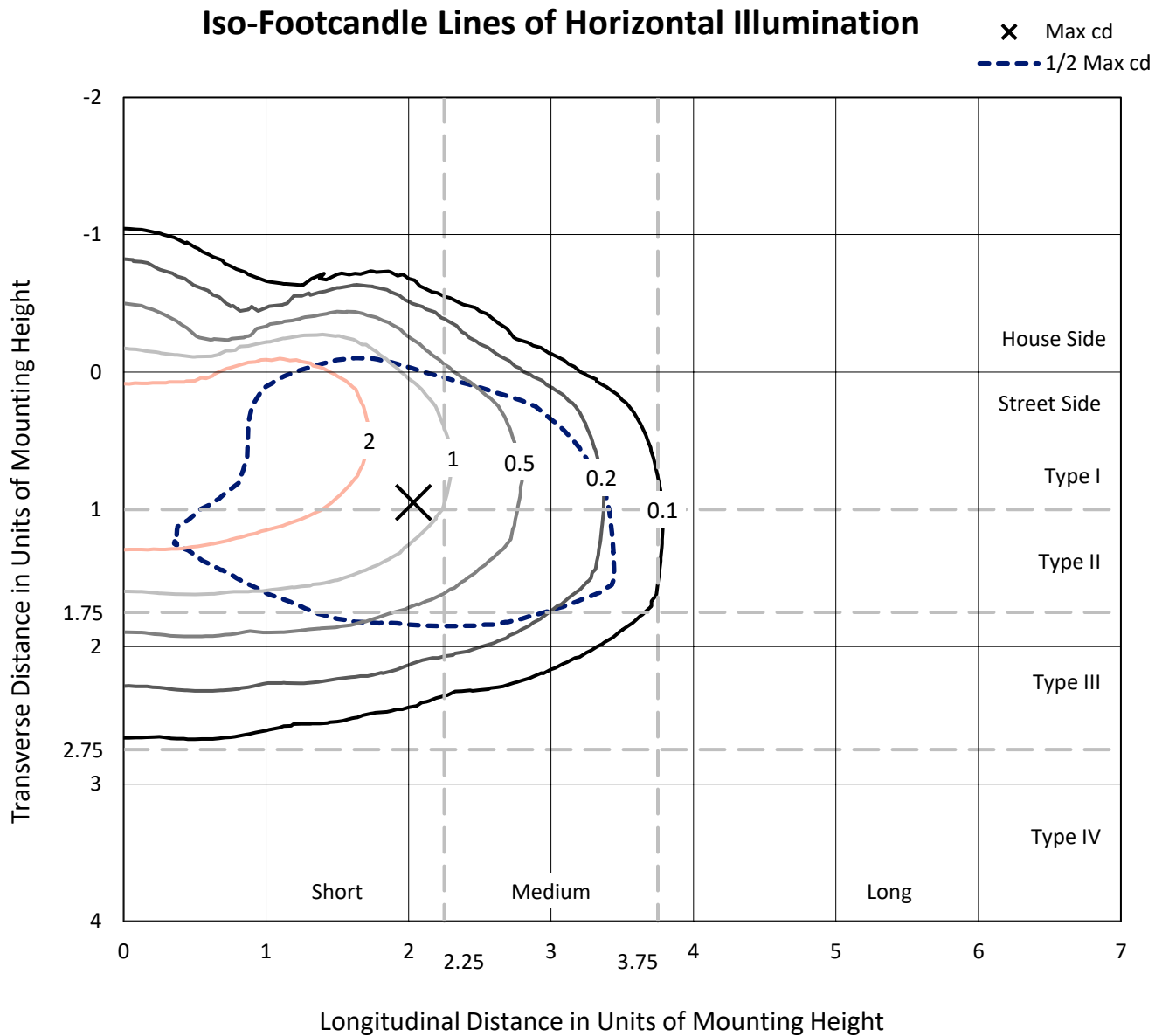
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13422 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 161
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

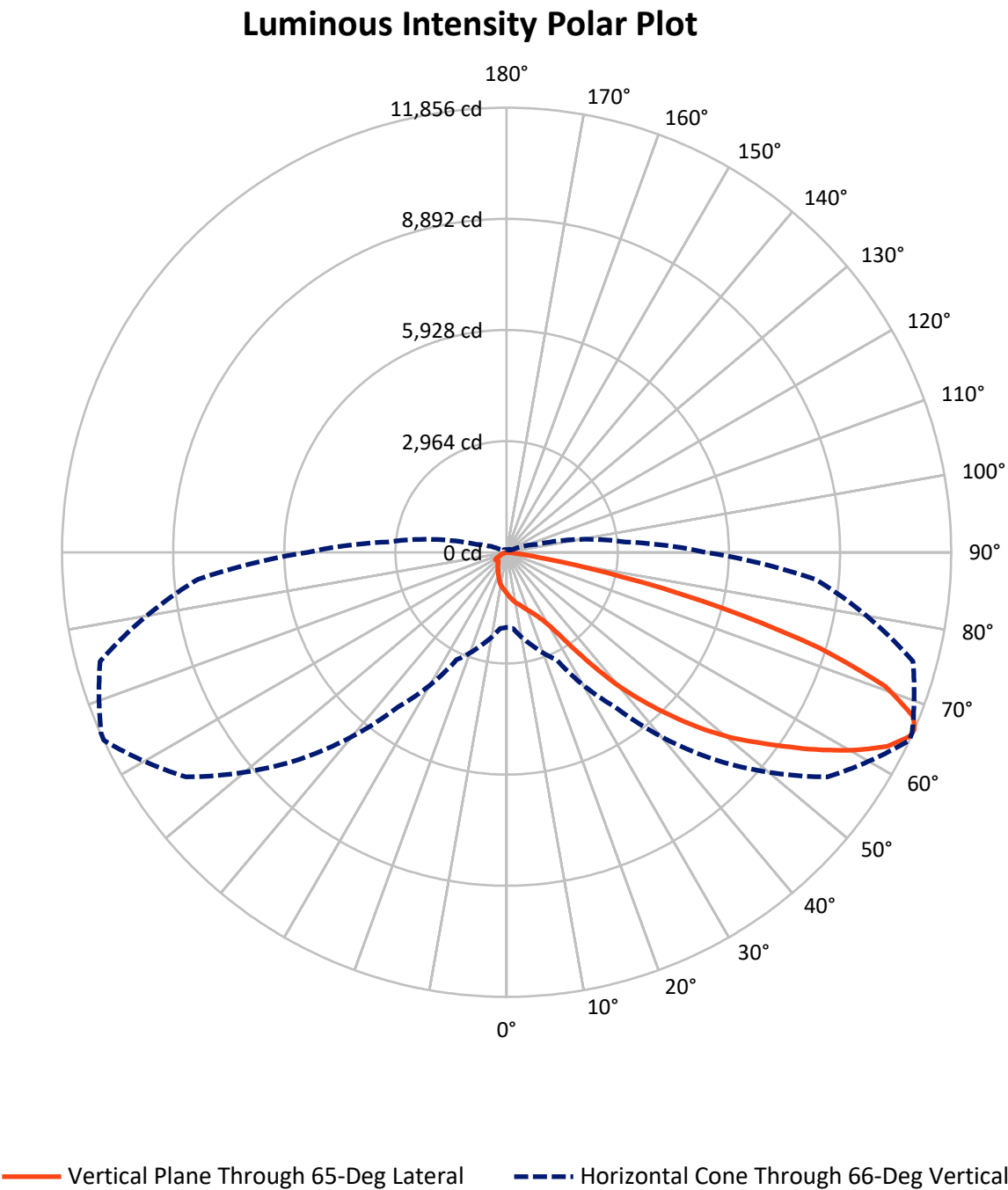


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Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type III - Short - N/A

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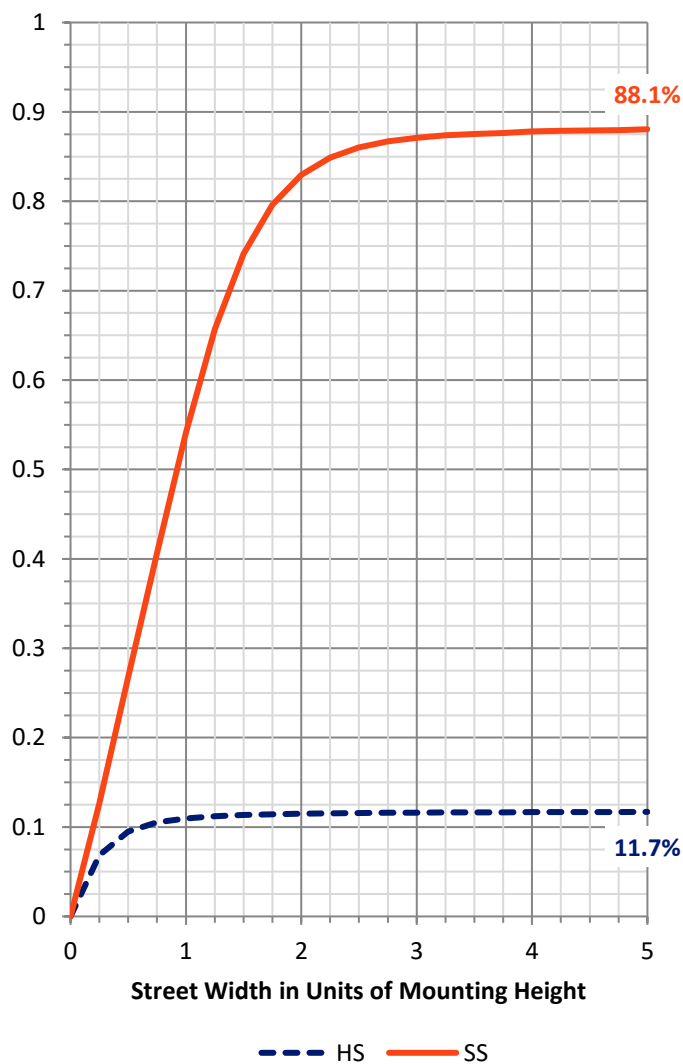
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1584.1	0.0	1584.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	11837.9	0.0	11837.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	13422.0	0.0	13422.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	0.8
10°-20°	306.9	2.3
20°-30°	561.7	4.2
30°-40°	1141.4	8.5
40°-50°	2410.2	18.0
50°-60°	3705.3	27.6
60°-70°	3729.6	27.8
70°-80°	1393.6	10.4
80°-90°	69.6	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°	13422.0	100.0
0°-180°	13422.0	100.0

Coefficient of Utilization



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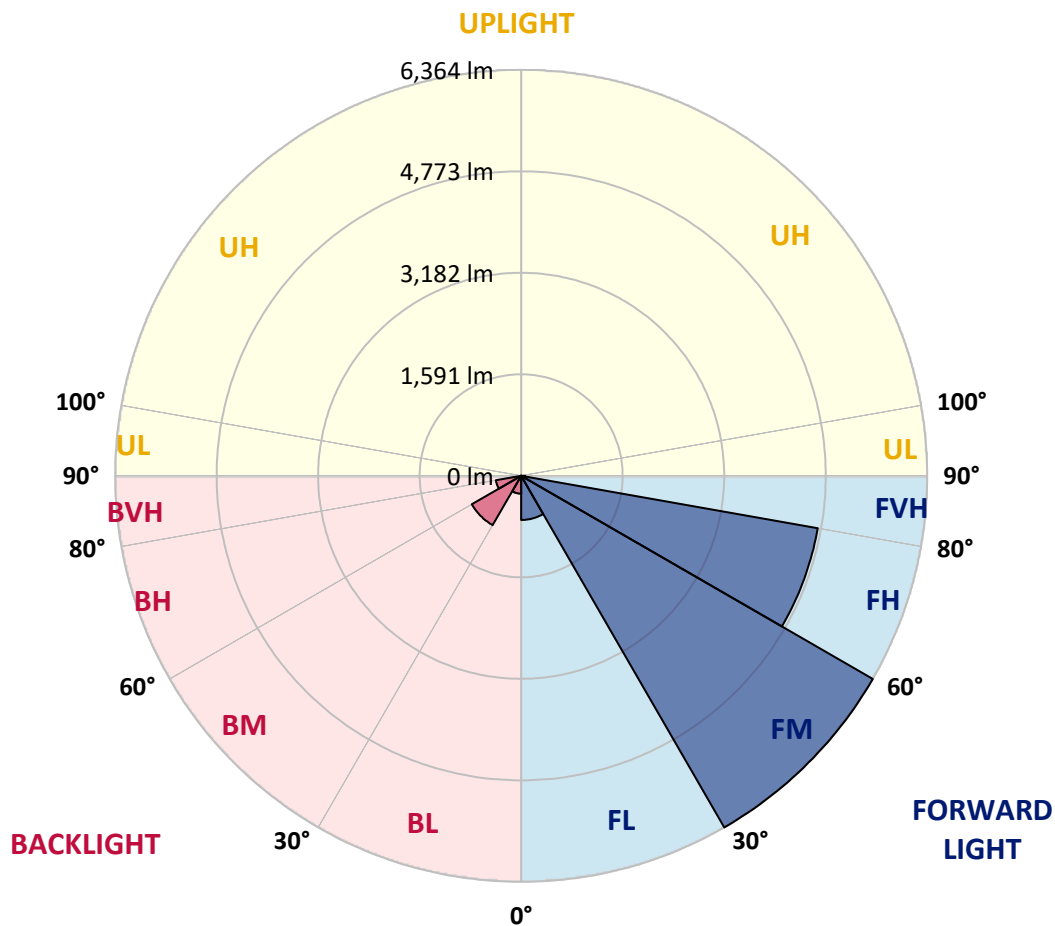
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	691.9	5.2			
FM	(30°-60°)	6363.8	47.4			
FH	(60°-80°)	4720.8	35.2			G2/5000
FVH	(80°-90°)	61.4	0.5			G1/100
BL	(0°-30°)	280.4	2.1	B1/500		
BM	(30°-60°)	893.1	6.7	B1/1000		
BH	(60°-80°)	402.4	3.0	B1/500		G1/500
BVH	(80°-90°)	8.2	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1093.5	1093.5	1093.5	1093.5	1093.5	1093.5	1093.5	1093.5	1093.5	1093.5	1093.5
2.5°	1246.9	1249.4	1244.5	1234.8	1225.0	1212.9	1193.4	1161.7	1156.8	1134.9	1110.6
5°	1332.2	1337.1	1329.8	1327.3	1322.4	1305.4	1278.6	1232.3	1227.5	1183.6	1127.6
7.5°	1361.4	1368.7	1363.8	1363.8	1363.8	1356.5	1344.4	1303.0	1295.7	1239.6	1154.4
10°	1383.3	1388.2	1385.8	1395.5	1402.8	1397.9	1390.6	1366.3	1359.0	1303.0	1190.9
12.5°	1417.4	1419.9	1422.3	1427.2	1439.3	1444.2	1441.8	1419.9	1415.0	1376.0	1237.2
15°	1449.1	1449.1	1451.5	1473.4	1490.5	1500.2	1502.7	1485.6	1480.8	1449.1	1295.7
17.5°	1478.3	1480.8	1488.1	1512.4	1541.6	1561.1	1573.3	1566.0	1558.7	1534.3	1363.8
20°	1522.2	1527.0	1534.3	1568.4	1597.7	1629.3	1653.7	1651.2	1648.8	1631.7	1444.2
22.5°	1597.7	1602.5	1614.7	1646.4	1675.6	1714.6	1756.0	1753.5	1746.2	1734.0	1539.2
25°	1712.1	1712.1	1719.4	1746.2	1782.7	1829.0	1868.0	1875.3	1868.0	1860.7	1658.5
27.5°	1855.8	1858.2	1858.2	1887.5	1921.6	1980.0	2028.7	2036.0	2036.0	2028.7	1819.3
30°	2055.5	2048.2	2043.3	2067.7	2104.2	2189.5	2274.7	2289.3	2282.0	2294.2	2045.8
32.5°	2398.9	2386.7	2345.3	2350.2	2372.1	2489.0	2632.7	2683.9	2681.4	2703.3	2411.1
35°	2873.8	2849.5	2788.6	2737.4	2735.0	2861.6	3080.8	3273.2	3270.8	3346.3	2966.4
37.5°	3409.6	3441.3	3326.8	3239.1	3212.4	3312.2	3594.7	4011.2	4033.1	4164.6	3694.6
40°	4125.6	4145.1	3999.0	3874.8	3748.2	3784.7	4157.3	4805.1	4844.1	4990.2	4422.8
42.5°	4749.1	4768.6	4683.4	4532.4	4371.6	4303.4	4724.8	5526.0	5557.7	5759.8	5172.9
45°	5172.9	5187.5	5216.7	5231.3	5048.7	4907.4	5418.9	6266.4	6305.4	6539.2	5906.0
47.5°	5504.1	5516.3	5574.7	5720.9	5684.3	5572.3	6125.1	7036.0	7045.7	7306.3	6619.5
50°	5657.5	5686.8	5830.5	6054.5	6215.3	6246.9	6892.3	7764.2	7791.0	8039.4	7294.2
52.5°	5487.1	5496.8	5859.7	6281.0	6604.9	6926.4	7661.9	8438.8	8516.8	8701.8	7900.6
55°	4912.3	4982.9	5533.3	6273.7	6911.8	7571.8	8485.1	9167.0	9237.6	9354.5	8434.0
57.5°	4245.0	4322.9	4992.7	5959.5	7043.3	8168.5	9247.4	9941.5	9990.2	10021.9	8923.5
60°	3667.8	3740.8	4430.1	5358.0	6911.8	8589.8	9956.1	10711.1	10752.5	10667.3	9169.5
62.5°	2959.1	3032.1	3726.2	4561.6	6395.5	8675.1	10482.2	11395.5	11412.5	11181.1	9018.5
65°	2230.9	2279.6	2859.2	3575.2	5491.9	8222.1	10601.5	11821.7	11804.6	11329.7	8565.5
66°	1999.5	2040.9	2552.3	3161.2	5021.9	7808.0	10440.8	11855.8	11838.7	11220.1	8268.3
67.5°	1724.3	1736.5	2157.8	2586.4	4201.1	6928.8	9951.2	11699.9	11714.5	10918.1	7725.2
70°	1346.8	1344.4	1587.9	1799.8	2869.0	4929.3	8300.0	10718.4	10789.0	9778.3	6587.9
72.5°	862.1	832.9	974.2	1100.8	1670.7	2861.6	6052.1	8735.9	8855.3	7681.4	4907.4
75°	513.9	484.7	518.8	550.4	801.3	1376.0	3558.2	5944.9	6059.4	4924.5	2920.1
77.5°	384.8	372.6	375.1	348.3	355.6	516.3	1624.4	3141.7	3224.5	2016.5	1108.1
80°	294.7	263.0	246.0	258.2	233.8	204.6	604.0	1081.3	1132.5	477.3	231.4
82.5°	197.3	170.5	158.3	172.9	148.6	114.5	146.1	209.4	204.6	129.1	90.1
85°	102.3	87.7	87.7	87.7	75.5	56.0	63.3	85.2	85.2	68.2	53.6
87.5°	29.2	26.8	31.7	29.2	21.9	21.9	24.4	29.2	29.2	26.8	24.4
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°	1093.5	1093.5	1093.5	1093.5	1093.5	1093.5	1093.5	1093.5	1093.5	1093.5	1093.5
2.5°	1091.1	1081.3	1054.5	1035.1	1015.6	998.5	979.0	974.2	964.4	966.9	962.0
5°	1098.4	1071.6	1025.3	981.5	947.4	918.2	881.6	867.0	847.5	840.2	835.4
7.5°	1108.1	1069.2	1001.0	940.1	881.6	823.2	764.7	730.6	708.7	699.0	691.7
10°	1130.0	1078.9	988.8	893.8	794.0	711.2	652.7	628.3	613.7	611.3	608.9
12.5°	1159.3	1093.5	976.6	835.4	703.8	625.9	589.4	582.1	579.6	579.6	577.2
15°	1203.1	1117.9	957.1	767.2	633.2	579.6	562.6	550.4	545.5	545.5	545.5
17.5°	1246.9	1147.1	927.9	696.5	584.5	550.4	533.4	526.1	521.2	523.6	521.2
20°	1303.0	1181.2	888.9	635.7	552.8	526.1	509.0	501.7	499.3	499.3	499.3
22.5°	1366.3	1220.2	840.2	589.4	526.1	501.7	484.7	477.3	472.5	474.9	474.9
25°	1451.5	1268.9	789.1	543.1	499.3	477.3	457.9	448.1	448.1	450.6	453.0
27.5°	1561.1	1327.3	737.9	513.9	474.9	453.0	431.1	421.3	423.8	428.6	428.6
30°	1721.9	1407.7	686.8	482.2	448.1	423.8	404.3	394.5	399.4	409.2	409.2
32.5°	1950.8	1539.2	643.0	445.7	409.2	382.4	362.9	355.6	367.8	387.2	387.2
35°	2359.9	1780.3	616.2	409.2	367.8	336.1	311.7	304.4	321.5	345.8	345.8
37.5°	2907.9	2167.5	625.9	377.5	333.7	297.1	270.3	260.6	272.8	294.7	302.0
40°	3519.2	2635.2	711.2	350.7	302.0	265.5	238.7	228.9	236.2	246.0	248.4
42.5°	4130.5	3132.0	871.9	331.2	277.6	238.7	214.3	207.0	211.9	214.3	216.8
45°	4739.4	3623.9	1074.0	319.0	255.7	216.8	192.4	192.4	194.8	194.8	194.8
47.5°	5316.6	4103.7	1285.9	316.6	236.2	194.8	175.4	177.8	177.8	180.2	180.2
50°	5862.1	4532.4	1500.2	323.9	219.2	175.4	160.7	160.7	160.7	163.2	160.7
52.5°	6317.5	4907.4	1724.3	336.1	202.1	160.7	146.1	146.1	146.1	148.6	146.1
55°	6748.6	5248.4	1953.2	353.1	187.5	148.6	133.9	129.1	129.1	131.5	129.1
57.5°	7099.3	5474.9	2170.0	355.6	175.4	136.4	124.2	116.9	116.9	116.9	116.9
60°	7113.9	5343.4	2233.3	311.7	160.7	124.2	112.0	102.3	104.7	104.7	104.7
62.5°	6648.8	4651.7	1794.9	233.8	143.7	112.0	102.3	92.5	92.5	92.5	92.5
65°	5735.5	3619.1	1052.1	185.1	124.2	99.9	90.1	82.8	82.8	82.8	80.4
66°	5306.8	3173.4	806.1	168.0	116.9	97.4	87.7	80.4	77.9	75.5	75.5
67.5°	4607.9	2508.5	504.1	148.6	107.2	90.1	80.4	73.1	70.6	68.2	68.2
70°	3470.5	1592.8	246.0	114.5	92.5	77.9	70.6	63.3	60.9	58.5	56.0
72.5°	2435.4	932.8	129.1	87.7	75.5	68.2	60.9	53.6	51.1	48.7	48.7
75°	1376.0	450.6	85.2	63.3	60.9	56.0	51.1	43.8	41.4	41.4	41.4
77.5°	521.2	155.9	58.5	46.3	48.7	43.8	36.5	36.5	34.1	36.5	34.1
80°	136.4	68.2	36.5	34.1	36.5	31.7	26.8	29.2	29.2	29.2	29.2
82.5°	73.1	39.0	21.9	24.4	21.9	21.9	17.0	19.5	21.9	19.5	21.9
85°	51.1	19.5	12.2	12.2	9.7	9.7	7.3	9.7	12.2	9.7	9.7
87.5°	26.8	7.3	7.3	7.3	7.3	4.9	2.4	0.0	2.4	2.4	2.4
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)