

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: P1211583

Luminaire Tested: **ARCH4-50-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211583
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: ARCH4-50-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 435mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

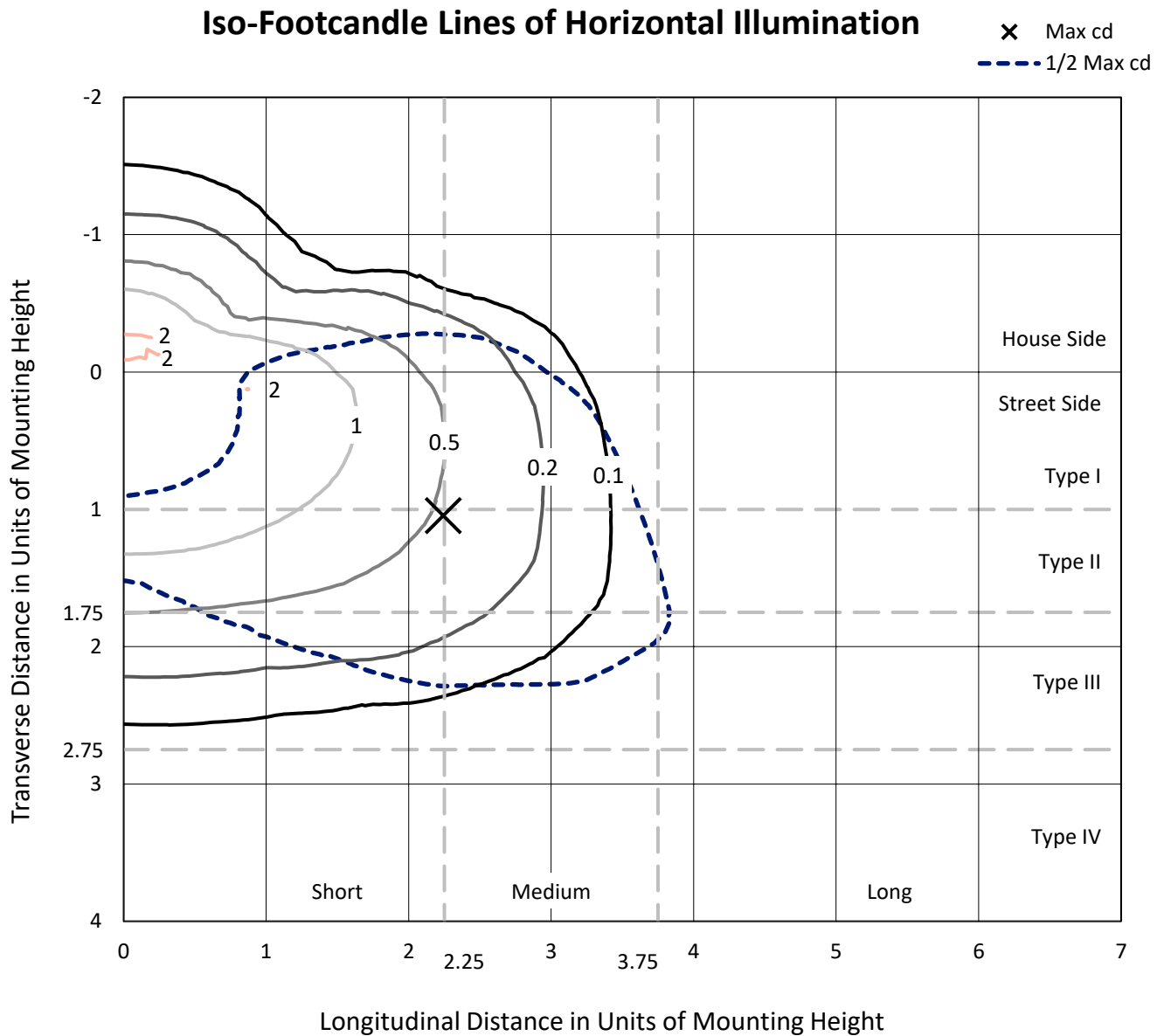
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9033 lumens
Efficiency: N/A
Efficacy: 169.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 53.2
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

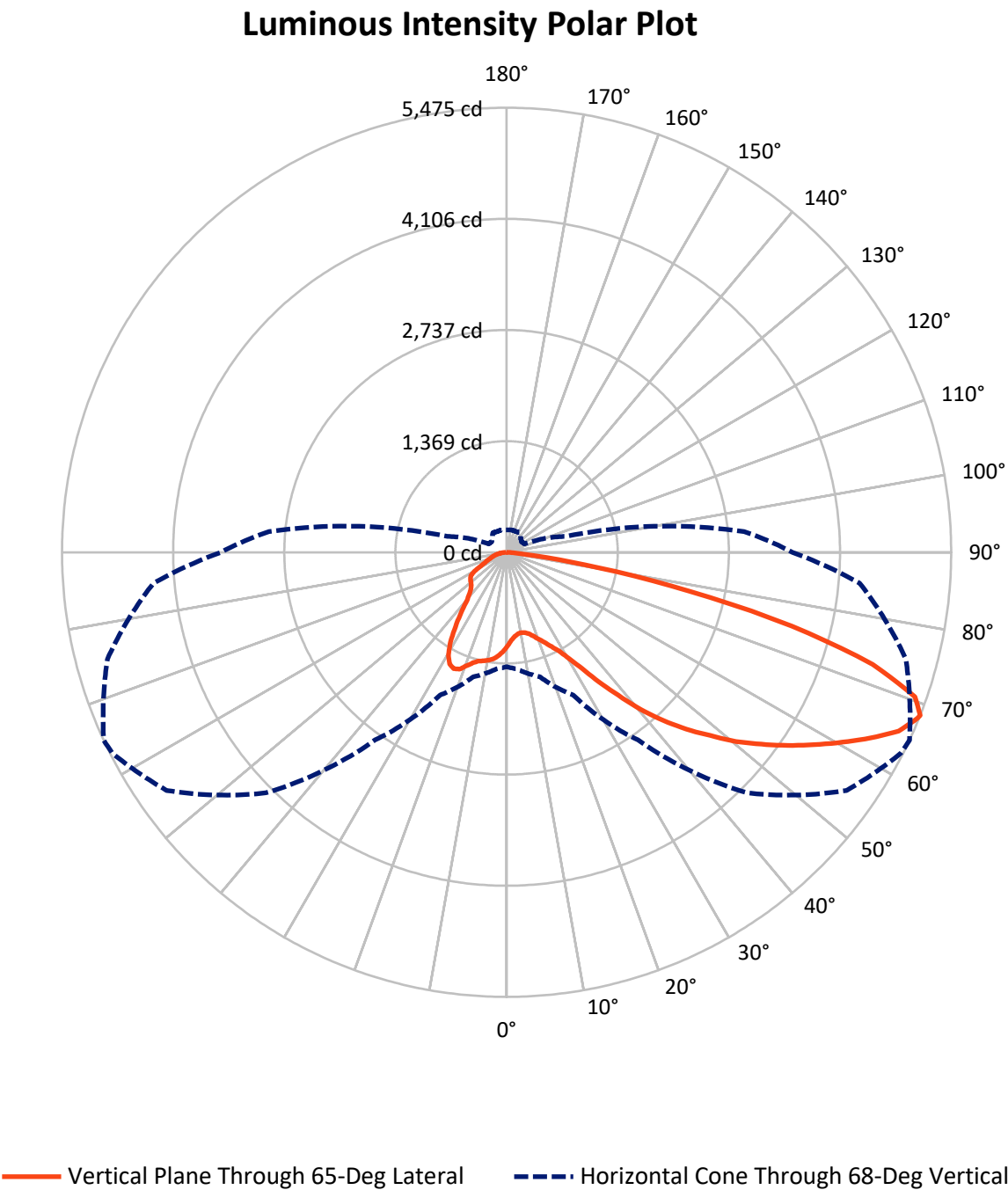


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Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type III - Short - N/A

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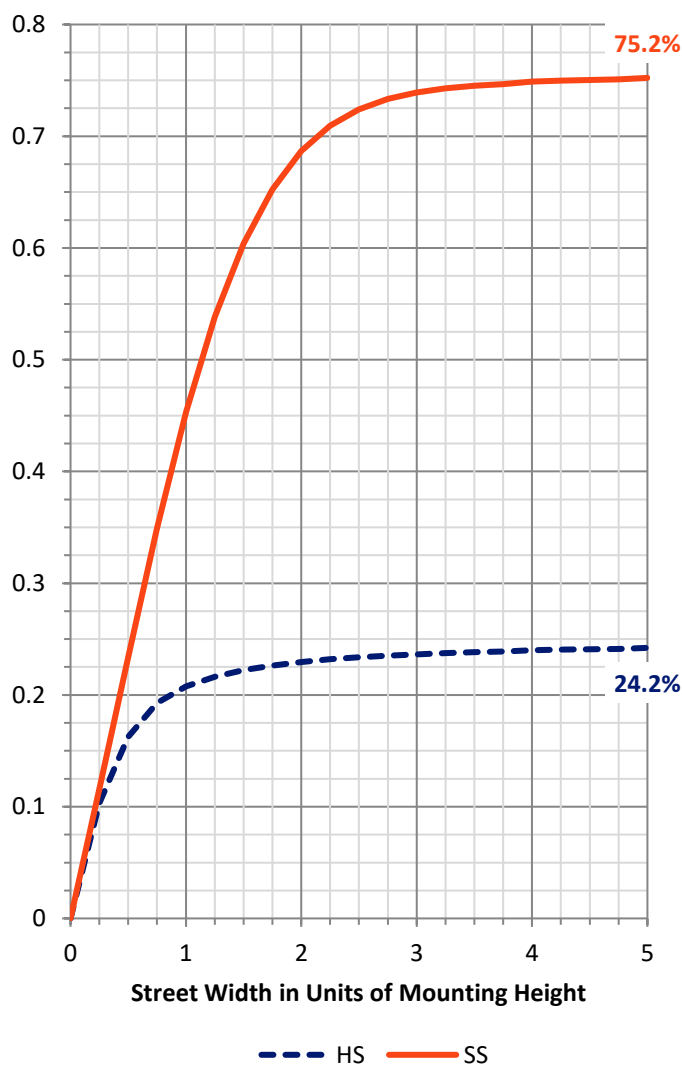
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2214.6	0.0	2214.6
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	6818.4	0.0	6818.4
	% Fixture	75.5	0.0	75.5
Total	Lumens	9033.0	0.0	9033.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	1.2
10°-20°	359.2	4.0
20°-30°	650.1	7.2
30°-40°	1022.7	11.3
40°-50°	1523.2	16.9
50°-60°	1998.1	22.1
60°-70°	2185.1	24.2
70°-80°	1081.2	12.0
80°-90°	103.1	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°	9033.0	100.0
0°-180°	9033.0	100.0

Coefficient of Utilization



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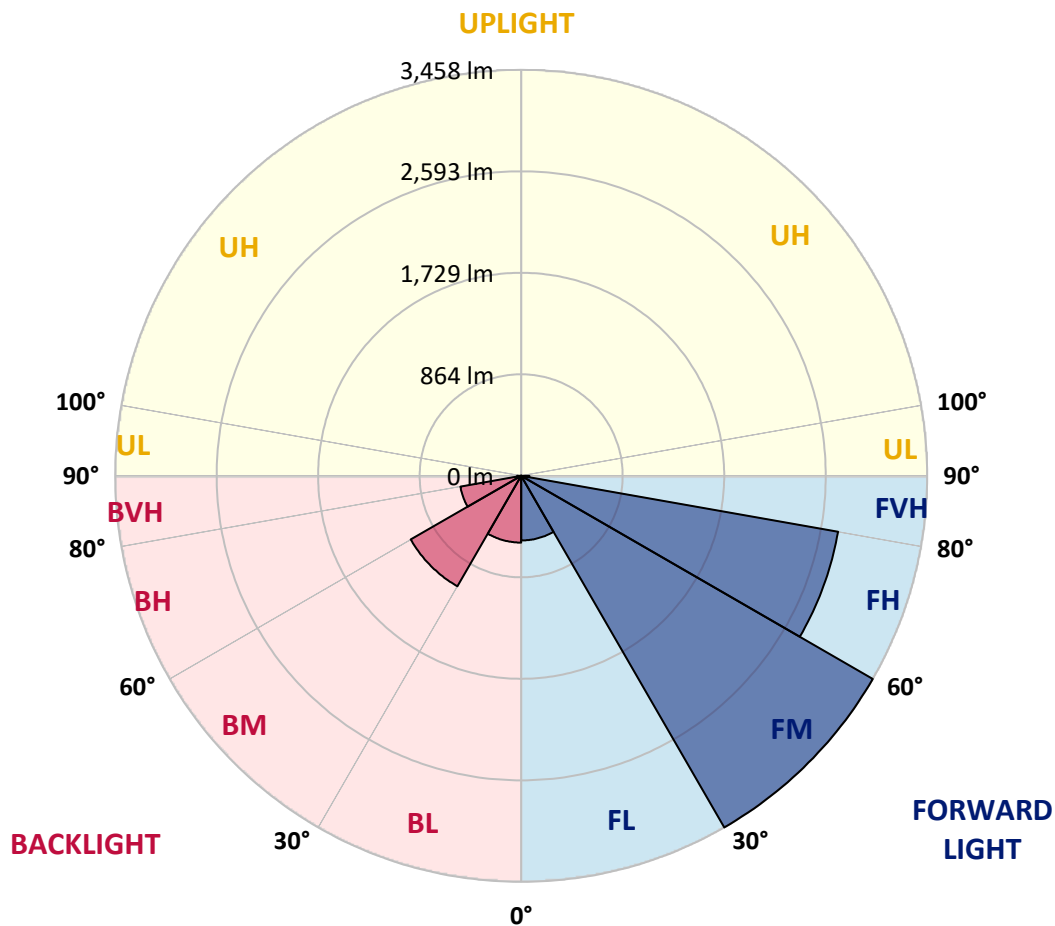
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	550.7	6.1			
FM	(30°-60°)	3457.7	38.3			
FH	(60°-80°)	2740.6	30.3			G2/5000
FVH	(80°-90°)	69.4	0.8			G1/100
BL	(0°-30°)	569.0	6.3	B2/1000		
BM	(30°-60°)	1086.3	12.0	B2/2500		
BH	(60°-80°)	525.6	5.8	B2/1000		G2/1000
BVH	(80°-90°)	33.8	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°	1154.3	1154.3	1154.3	1154.3	1154.3	1154.3	1154.3	1154.3	1154.3	1154.3	1154.3
2.5°	1007.5	1005.2	1011.0	1016.9	1029.7	1044.8	1065.8	1083.3	1085.6	1118.2	1143.8
5°	948.1	944.6	950.5	957.5	963.3	981.9	1004.0	1029.7	1040.2	1087.9	1142.7
7.5°	954.0	952.8	955.1	952.8	952.8	961.0	976.1	1001.7	1013.4	1070.4	1148.5
10°	987.7	990.1	991.2	984.2	977.3	973.8	978.4	995.9	1004.0	1071.6	1174.1
12.5°	1043.7	1047.1	1048.3	1035.5	1026.2	1011.0	1002.9	1009.9	1015.7	1083.3	1210.2
15°	1119.4	1121.7	1113.5	1105.4	1082.1	1063.5	1043.7	1037.8	1040.2	1107.7	1251.0
17.5°	1207.9	1204.4	1204.4	1184.6	1154.3	1125.2	1092.6	1087.9	1087.9	1147.3	1309.2
20°	1304.6	1308.1	1297.6	1270.8	1240.5	1195.1	1162.5	1141.5	1143.8	1192.7	1380.3
22.5°	1444.3	1450.2	1422.2	1383.8	1337.2	1284.8	1238.2	1204.4	1205.6	1252.1	1453.7
25°	1594.6	1596.9	1579.5	1528.2	1465.3	1390.8	1329.0	1285.9	1284.8	1318.5	1548.0
27.5°	1748.4	1758.8	1723.9	1675.0	1616.7	1523.5	1442.0	1383.8	1374.5	1419.9	1665.7
30°	1906.8	1919.6	1885.8	1838.0	1765.8	1686.6	1589.9	1522.4	1516.6	1577.1	1822.9
32.5°	2066.3	2069.8	2043.0	2003.4	1938.2	1863.7	1785.6	1711.1	1705.3	1804.3	2026.7
35°	2196.8	2207.3	2188.6	2179.3	2131.6	2062.8	1987.1	1944.0	1959.2	2086.1	2291.1
37.5°	2354.0	2364.5	2343.6	2341.2	2326.1	2266.7	2214.3	2217.8	2232.9	2405.3	2569.5
40°	2581.2	2592.8	2539.2	2515.9	2515.9	2457.7	2440.2	2522.9	2542.7	2719.8	2859.6
42.5°	2773.4	2792.0	2760.6	2745.4	2700.0	2659.2	2680.2	2796.7	2830.4	3020.3	3112.3
45°	2866.5	2880.5	2917.8	2962.1	2917.8	2846.7	2926.0	3057.6	3105.3	3297.5	3365.1
47.5°	2916.6	2929.4	2972.5	3091.4	3121.6	3062.2	3174.1	3338.3	3370.9	3572.4	3606.2
50°	2923.6	2964.4	3020.3	3139.1	3277.7	3285.9	3423.3	3623.7	3662.1	3842.6	3818.2
52.5°	2866.5	2882.9	2998.2	3198.5	3352.3	3492.0	3694.7	3897.4	3925.3	4096.6	4005.7
55°	2773.4	2796.7	2912.0	3184.5	3424.5	3687.7	3970.8	4166.5	4197.9	4343.5	4179.3
57.5°	2689.5	2701.1	2824.6	3143.8	3496.7	3883.4	4216.5	4447.2	4468.1	4560.2	4307.4
60°	2596.3	2609.1	2732.6	3056.4	3550.3	4031.3	4472.8	4730.2	4748.9	4788.5	4456.5
62.5°	2355.2	2389.0	2543.9	2912.0	3536.3	4200.2	4746.5	5009.8	5033.1	4990.0	4574.1
65°	1912.6	1960.3	2150.2	2584.7	3405.8	4309.7	4970.2	5267.2	5306.8	5141.4	4605.6
67.5°	1485.1	1518.9	1671.5	2051.2	2948.1	4255.0	5114.6	5444.2	5455.9	5116.9	4430.9
68°	1408.2	1442.0	1587.6	1939.4	2821.1	4189.8	5111.1	5448.9	5474.5	5090.1	4363.3
70°	1077.4	1115.9	1254.5	1536.4	2273.7	3775.1	4897.9	5337.1	5333.6	4766.3	3944.0
72.5°	673.2	695.4	790.9	969.1	1503.7	2872.4	4157.1	4706.9	4716.2	3885.7	3025.0
75°	427.5	427.5	422.8	469.4	771.1	1636.5	3090.2	3623.7	3630.7	2721.0	1906.8
77.5°	371.6	361.1	311.0	263.2	307.5	636.0	1828.7	2340.1	2301.6	1465.3	905.0
80°	313.3	295.9	255.1	212.0	198.0	199.2	702.4	1188.1	1136.8	527.7	300.5
82.5°	226.0	210.8	192.2	166.6	152.6	118.8	146.8	343.6	335.5	152.6	97.8
85°	122.3	110.7	108.3	109.5	92.0	73.4	61.7	75.7	75.7	66.4	55.9
87.5°	43.1	31.4	37.3	41.9	36.1	30.3	24.5	29.1	30.3	29.1	26.8
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°	1154.3	1154.3	1154.3	1154.3	1154.3	1154.3	1154.3	1154.3	1154.3	1154.3	1154.3
2.5°	1159.0	1170.6	1198.6	1223.0	1240.5	1255.6	1263.8	1267.3	1275.4	1276.6	1274.3
5°	1168.3	1198.6	1240.5	1276.6	1296.4	1304.6	1306.9	1308.1	1304.6	1306.9	1304.6
7.5°	1192.7	1231.2	1290.6	1322.0	1325.5	1312.7	1313.9	1309.2	1313.9	1318.5	1318.5
10°	1230.0	1278.9	1334.9	1346.5	1331.4	1324.4	1338.3	1366.3	1375.6	1388.4	1388.4
12.5°	1278.9	1337.2	1376.8	1366.3	1352.3	1375.6	1416.4	1444.3	1453.7	1458.3	1454.8
15°	1334.9	1397.7	1417.6	1382.6	1408.2	1458.3	1472.3	1456.0	1432.7	1422.2	1428.0
17.5°	1405.9	1458.3	1446.7	1423.4	1481.6	1488.6	1443.2	1390.8	1353.5	1339.5	1348.8
20°	1480.4	1525.9	1472.3	1482.8	1518.9	1444.3	1358.1	1290.6	1258.0	1252.1	1261.5
22.5°	1559.7	1588.8	1497.9	1551.5	1497.9	1346.5	1242.8	1207.9	1199.7	1209.1	1217.2
25°	1649.3	1645.8	1542.2	1572.5	1419.9	1226.5	1164.8	1162.5	1162.5	1168.3	1179.9
27.5°	1750.7	1695.9	1586.4	1544.5	1284.8	1127.5	1115.9	1117.0	1113.5	1114.7	1120.5
30°	1868.3	1763.5	1635.4	1452.5	1133.3	1053.0	1048.3	1044.8	1036.7	1034.3	1036.7
32.5°	2016.3	1834.5	1685.5	1301.1	1000.6	976.1	973.8	955.1	935.3	933.0	941.2
35°	2203.8	1963.8	1711.1	1111.2	891.1	889.9	881.7	852.6	827.0	827.0	821.2
37.5°	2418.1	2130.4	1721.6	926.0	800.2	806.0	782.7	745.5	725.7	714.0	717.5
40°	2637.1	2320.3	1720.4	764.1	721.0	722.2	704.7	659.3	610.4	581.2	588.2
42.5°	2847.9	2492.7	1690.1	677.9	656.9	653.4	639.5	577.7	537.0	513.7	514.8
45°	3016.8	2670.9	1643.5	626.7	598.7	604.5	573.1	535.8	498.5	477.6	476.4
47.5°	3185.7	2806.0	1569.0	595.2	555.6	545.1	532.3	506.7	478.7	455.4	456.6
50°	3339.5	2921.3	1499.1	574.2	516.0	489.2	491.5	476.4	451.9	431.0	429.8
52.5°	3447.8	2997.0	1460.6	562.6	468.2	439.1	447.3	439.1	415.8	400.7	399.5
55°	3556.1	3055.2	1473.5	547.5	415.8	392.5	406.5	404.2	391.4	386.7	387.9
57.5°	3643.5	3099.5	1518.9	519.5	365.7	351.8	375.1	368.1	358.8	359.9	359.9
60°	3728.5	3156.6	1572.5	455.4	322.6	323.8	345.9	333.1	327.3	337.8	339.0
62.5°	3817.0	3218.3	1528.2	362.2	285.4	293.5	319.2	308.7	311.0	326.1	330.8
65°	3806.5	3212.5	1245.2	297.0	252.8	269.1	307.5	304.0	305.2	311.0	313.3
67.5°	3592.2	3007.5	856.1	252.8	229.5	249.3	298.2	284.2	285.4	281.9	283.0
68°	3520.0	2935.3	754.8	245.8	224.8	244.6	293.5	280.7	281.9	278.4	277.2
70°	3126.3	2513.6	477.6	216.7	208.5	231.8	270.2	265.6	264.4	262.1	262.1
72.5°	2383.2	1855.5	251.6	187.5	189.9	212.0	241.1	250.4	244.6	245.8	252.8
75°	1578.3	1115.9	174.7	160.7	166.6	181.7	214.3	233.0	227.1	230.6	227.1
77.5°	835.2	601.0	139.8	136.3	136.3	146.8	177.0	206.2	206.2	203.8	200.3
80°	273.7	212.0	111.8	107.2	109.5	115.3	142.1	168.9	172.4	167.7	165.4
82.5°	92.0	97.8	83.9	78.0	80.4	85.0	107.2	129.3	130.5	121.1	118.8
85°	57.1	65.2	52.4	51.3	51.3	52.4	65.2	71.1	65.2	58.2	60.6
87.5°	26.8	32.6	24.5	21.0	17.5	15.1	11.6	4.7	4.7	2.3	2.3
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)