

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: P1210267

Luminaire Tested: **ARCH2-70-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210267
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: ARCH2-70-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

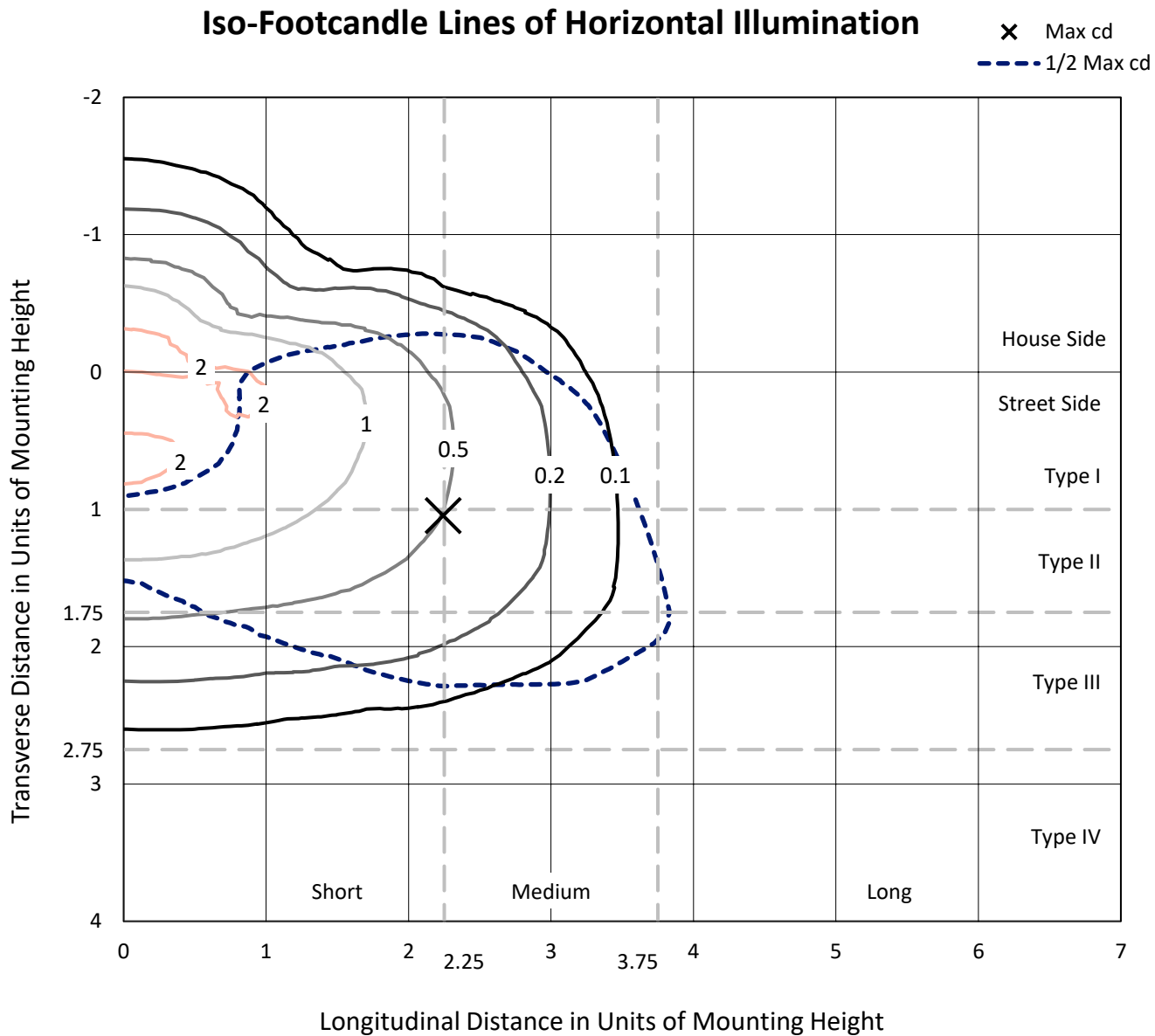
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9726 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.6
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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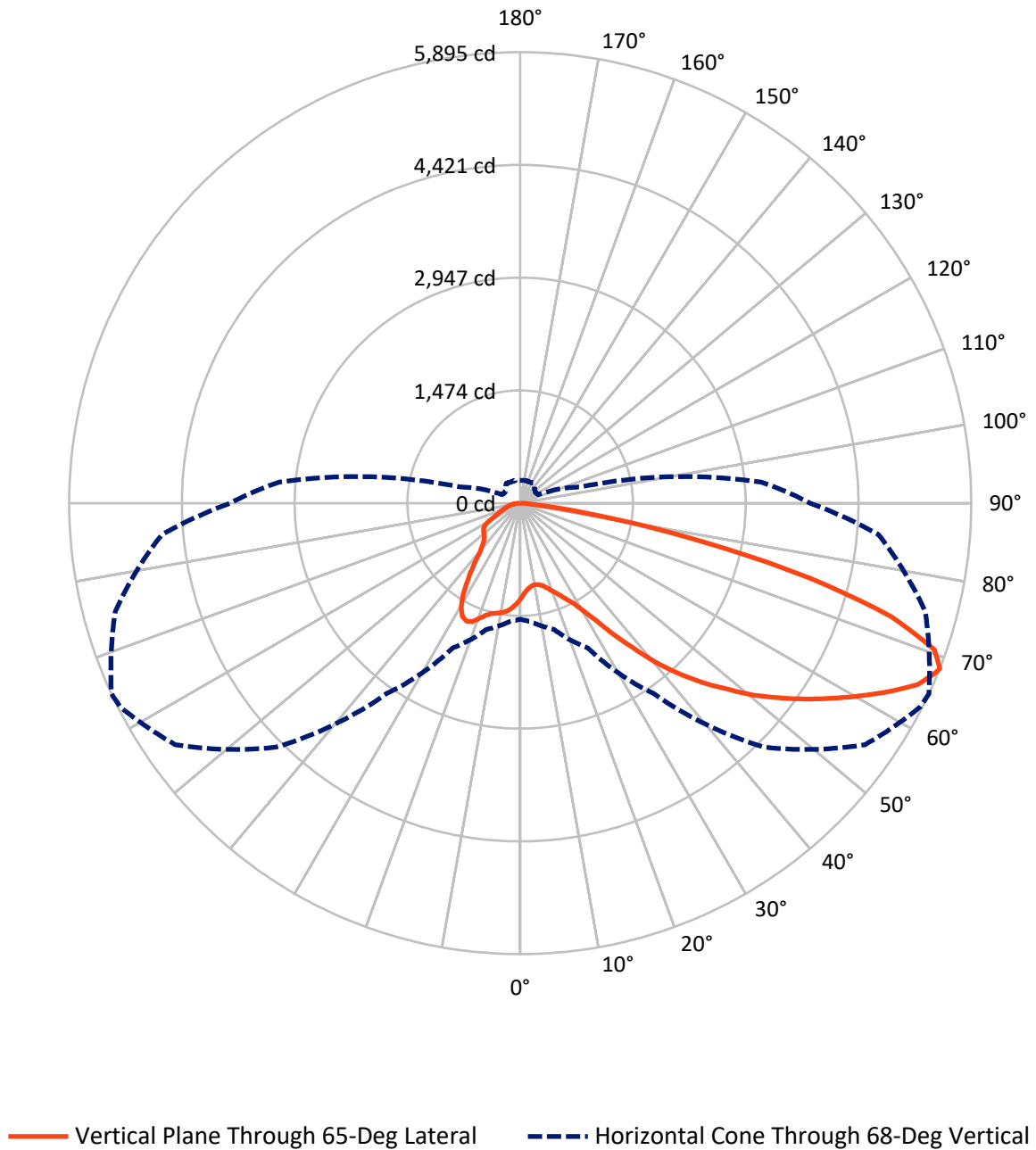


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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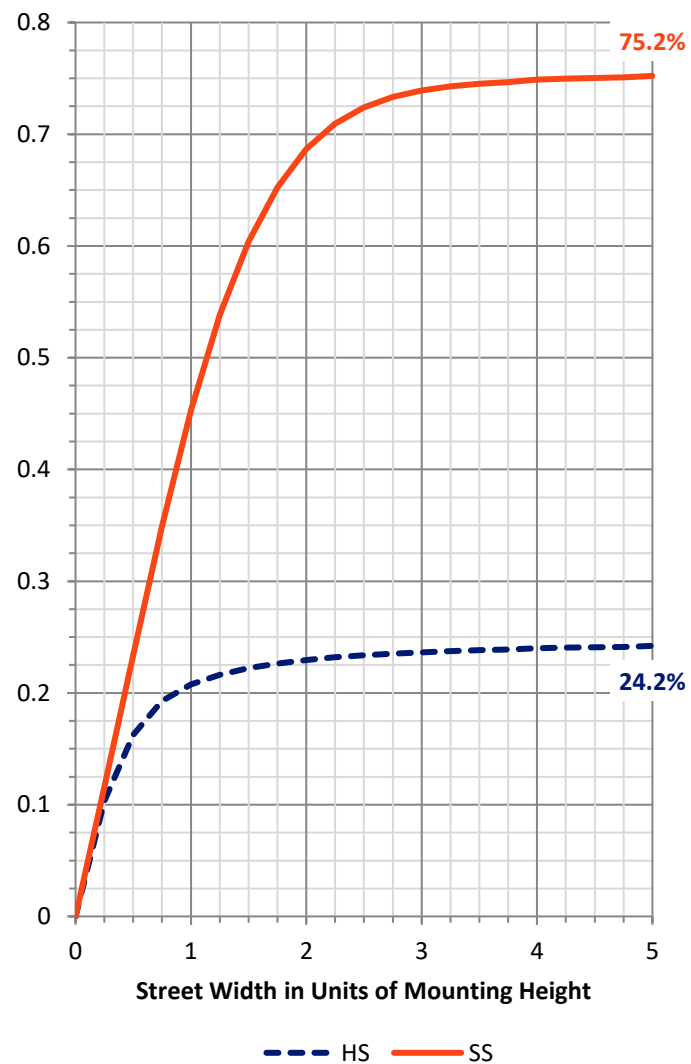
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2384.5	0.0	2384.5
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	7341.5	0.0	7341.5
	% Fixture	75.5	0.0	75.5
Total	Lumens	9726.0	0.0	9726.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	1.2
10°-20°	386.7	4.0
20°-30°	700.0	7.2
30°-40°	1101.1	11.3
40°-50°	1640.0	16.9
50°-60°	2151.4	22.1
60°-70°	2352.7	24.2
70°-80°	1164.2	12.0
80°-90°	111.0	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°	9726.0	100.0
0°-180°	9726.0	100.0

Coefficient of Utilization



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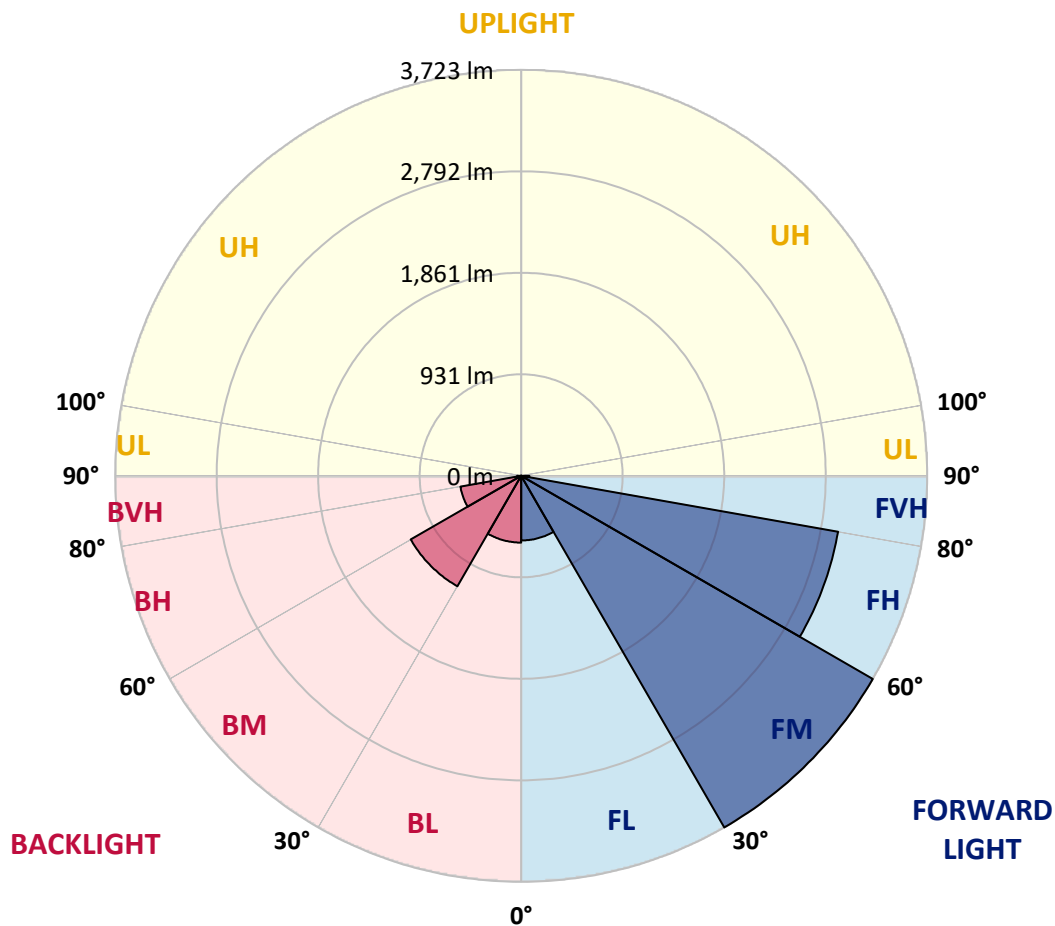
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	592.9	6.1			
FM	(30°-60°)	3723.0	38.3			
FH	(60°-80°)	2950.9	30.3			G2/5000
FVH	(80°-90°)	74.7	0.8			G1/100
BL	(0°-30°)	612.6	6.3	B2/1000		
BM	(30°-60°)	1169.6	12.0	B2/2500		
BH	(60°-80°)	566.0	5.8	B2/1000		G2/1000
BVH	(80°-90°)	36.4	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°	1242.9	1242.9	1242.9	1242.9	1242.9	1242.9	1242.9	1242.9	1242.9	1242.9	1242.9
2.5°	1084.8	1082.3	1088.6	1094.9	1108.7	1125.0	1147.5	1166.4	1168.9	1204.0	1231.6
5°	1020.9	1017.1	1023.4	1030.9	1037.2	1057.3	1081.1	1108.7	1120.0	1171.4	1230.3
7.5°	1027.2	1025.9	1028.4	1025.9	1025.9	1034.7	1051.0	1078.6	1091.1	1152.6	1236.6
10°	1063.5	1066.0	1067.3	1059.8	1052.2	1048.5	1053.5	1072.3	1081.1	1153.8	1264.2
12.5°	1123.7	1127.5	1128.7	1114.9	1104.9	1088.6	1079.8	1087.3	1093.6	1166.4	1303.1
15°	1205.2	1207.7	1199.0	1190.2	1165.1	1145.0	1123.7	1117.4	1120.0	1192.7	1347.0
17.5°	1300.6	1296.8	1296.8	1275.5	1242.9	1211.5	1176.4	1171.4	1171.4	1235.3	1409.7
20°	1404.7	1408.4	1397.1	1368.3	1335.7	1286.8	1251.6	1229.1	1231.6	1284.3	1486.2
22.5°	1555.1	1561.4	1531.3	1489.9	1439.8	1383.3	1333.2	1296.8	1298.0	1348.2	1565.2
25°	1716.9	1719.4	1700.6	1645.4	1577.7	1497.5	1431.0	1384.6	1383.3	1419.7	1666.8
27.5°	1882.5	1893.8	1856.1	1803.5	1740.8	1640.4	1552.6	1489.9	1479.9	1528.8	1793.4
30°	2053.0	2066.8	2030.5	1979.1	1901.3	1816.0	1711.9	1639.2	1632.9	1698.1	1962.7
32.5°	2224.9	2228.6	2199.8	2157.1	2086.9	2006.6	1922.6	1842.3	1836.1	1942.7	2182.2
35°	2365.3	2376.6	2356.6	2346.5	2295.1	2221.1	2139.6	2093.2	2109.5	2246.2	2466.9
37.5°	2534.6	2545.9	2523.4	2520.8	2504.5	2440.6	2384.1	2387.9	2404.2	2589.8	2766.7
40°	2779.2	2791.7	2734.1	2709.0	2709.0	2646.3	2627.4	2716.5	2737.8	2928.4	3078.9
42.5°	2986.1	3006.2	2972.3	2956.0	2907.1	2863.2	2885.8	3011.2	3047.6	3252.0	3351.1
45°	3086.5	3101.5	3141.7	3189.3	3141.7	3065.1	3150.4	3292.1	3343.6	3550.5	3623.2
47.5°	3140.4	3154.2	3200.6	3328.5	3361.1	3297.2	3417.6	3594.4	3629.5	3846.5	3882.9
50°	3147.9	3191.8	3252.0	3379.9	3529.2	3538.0	3686.0	3901.7	3943.1	4137.4	4111.1
52.5°	3086.5	3104.0	3228.2	3443.9	3609.4	3759.9	3978.2	4196.4	4226.5	4410.9	4313.0
55°	2986.1	3011.2	3135.4	3428.9	3687.2	3970.6	4275.4	4486.1	4520.0	4676.7	4499.9
57.5°	2895.8	2908.4	3041.3	3385.0	3765.0	4181.3	4540.0	4788.4	4810.9	4910.0	4637.9
60°	2795.5	2809.3	2942.2	3290.9	3822.7	4340.6	4815.9	5093.1	5113.2	5155.8	4798.4
62.5°	2535.9	2572.3	2739.1	3135.4	3807.6	4522.5	5110.7	5394.1	5419.2	5372.8	4925.1
65°	2059.3	2110.7	2315.2	2783.0	3667.1	4640.4	5351.5	5671.3	5713.9	5535.8	4958.9
67.5°	1599.0	1635.4	1799.7	2208.6	3174.3	4581.4	5507.0	5861.9	5874.4	5509.5	4770.8
68°	1516.3	1552.6	1709.4	2088.2	3037.6	4511.2	5503.2	5866.9	5894.5	5480.6	4698.1
70°	1160.1	1201.5	1350.7	1654.2	2448.1	4064.7	5273.7	5746.5	5742.8	5132.0	4246.6
72.5°	724.9	748.7	851.6	1043.5	1619.1	3092.7	4476.1	5068.0	5078.1	4183.9	3257.0
75°	460.3	460.3	455.3	505.4	830.2	1762.1	3327.3	3901.7	3909.2	2929.7	2053.0
77.5°	400.1	388.8	334.9	283.4	331.1	684.8	1969.0	2519.6	2478.2	1577.7	974.5
80°	337.4	318.6	274.7	228.3	213.2	214.5	756.3	1279.2	1224.1	568.1	323.6
82.5°	243.3	227.0	206.9	179.3	164.3	127.9	158.0	370.0	361.2	164.3	105.3
85°	131.7	119.1	116.6	117.9	99.1	79.0	66.5	81.5	81.5	71.5	60.2
87.5°	46.4	33.9	40.1	45.1	38.9	32.6	26.3	31.4	32.6	31.4	28.8
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°	1242.9	1242.9	1242.9	1242.9	1242.9	1242.9	1242.9	1242.9	1242.9	1242.9	1242.9
2.5°	1247.9	1260.4	1290.5	1316.9	1335.7	1352.0	1360.8	1364.5	1373.3	1374.6	1372.0
5°	1257.9	1290.5	1335.7	1374.6	1395.9	1404.7	1407.2	1408.4	1404.7	1407.2	1404.7
7.5°	1284.3	1325.6	1389.6	1423.5	1427.2	1413.4	1414.7	1409.7	1414.7	1419.7	1419.7
10°	1324.4	1377.1	1437.3	1449.8	1433.5	1426.0	1441.0	1471.1	1481.2	1494.9	1494.9
12.5°	1377.1	1439.8	1482.4	1471.1	1456.1	1481.2	1525.0	1555.1	1565.2	1570.2	1566.4
15°	1437.3	1505.0	1526.3	1488.7	1516.3	1570.2	1585.2	1567.7	1542.6	1531.3	1537.6
17.5°	1513.8	1570.2	1557.7	1532.6	1595.3	1602.8	1553.9	1497.5	1457.3	1442.3	1452.3
20°	1594.0	1642.9	1585.2	1596.5	1635.4	1555.1	1462.3	1389.6	1354.5	1348.2	1358.2
22.5°	1679.3	1710.7	1612.8	1670.5	1612.8	1449.8	1338.2	1300.6	1291.8	1301.8	1310.6
25°	1775.9	1772.1	1660.5	1693.1	1528.8	1320.6	1254.2	1251.6	1251.6	1257.9	1270.5
27.5°	1885.0	1826.0	1708.2	1663.0	1383.3	1214.0	1201.5	1202.7	1199.0	1200.2	1206.5
30°	2011.7	1898.8	1760.8	1563.9	1220.3	1133.8	1128.7	1125.0	1116.2	1113.7	1116.2
32.5°	2170.9	1975.3	1814.8	1400.9	1077.3	1051.0	1048.5	1028.4	1007.1	1004.6	1013.4
35°	2372.9	2114.5	1842.3	1196.5	959.4	958.2	949.4	918.0	890.4	890.4	884.2
37.5°	2603.6	2293.8	1853.6	997.1	861.6	867.9	842.8	802.7	781.3	768.8	772.6
40°	2839.4	2498.3	1852.4	822.7	776.3	777.6	758.8	709.8	657.2	625.8	633.3
42.5°	3066.4	2683.9	1819.8	729.9	707.3	703.6	688.5	622.1	578.2	553.1	554.3
45°	3248.3	2875.8	1769.6	674.7	644.6	650.9	617.0	576.9	536.8	514.2	512.9
47.5°	3430.1	3021.3	1689.3	640.9	598.2	586.9	573.1	545.6	515.5	490.4	491.6
50°	3595.7	3145.4	1614.1	618.3	555.6	526.7	529.3	512.9	486.6	464.0	462.8
52.5°	3712.3	3226.9	1572.7	605.8	504.2	472.8	481.6	472.8	447.7	431.4	430.2
55°	3828.9	3289.6	1586.5	589.5	447.7	422.6	437.7	435.2	421.4	416.4	417.6
57.5°	3923.0	3337.3	1635.4	559.4	393.8	378.8	403.8	396.3	386.3	387.5	387.5
60°	4014.5	3398.8	1693.1	490.4	347.4	348.7	372.5	358.7	352.4	363.7	365.0
62.5°	4109.9	3465.2	1645.4	390.0	307.3	316.0	343.6	332.4	334.9	351.2	356.2
65°	4098.6	3459.0	1340.7	319.8	272.2	289.7	331.1	327.3	328.6	334.9	337.4
67.5°	3867.8	3238.2	921.8	272.2	247.1	268.4	321.1	306.0	307.3	303.5	304.8
68°	3790.0	3160.5	812.7	264.6	242.1	263.4	316.0	302.3	303.5	299.7	298.5
70°	3366.1	2706.5	514.2	233.3	224.5	249.6	291.0	285.9	284.7	282.2	282.2
72.5°	2566.0	1997.9	270.9	201.9	204.4	228.3	259.6	269.6	263.4	264.6	272.2
75°	1699.4	1201.5	188.1	173.1	179.3	195.6	230.8	250.8	244.6	248.3	244.6
77.5°	899.2	647.1	150.5	146.7	146.7	158.0	190.6	222.0	222.0	219.5	215.7
80°	294.7	228.3	120.4	115.4	117.9	124.2	153.0	181.9	185.6	180.6	178.1
82.5°	99.1	105.3	90.3	84.0	86.5	91.6	115.4	139.2	140.5	130.4	127.9
85°	61.5	70.2	56.4	55.2	55.2	56.4	70.2	76.5	70.2	62.7	65.2
87.5°	28.8	35.1	26.3	22.6	18.8	16.3	12.5	5.0	5.0	2.5	2.5
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)