

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: P317666

Luminaire Tested: **GAN-SA2A-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8154 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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



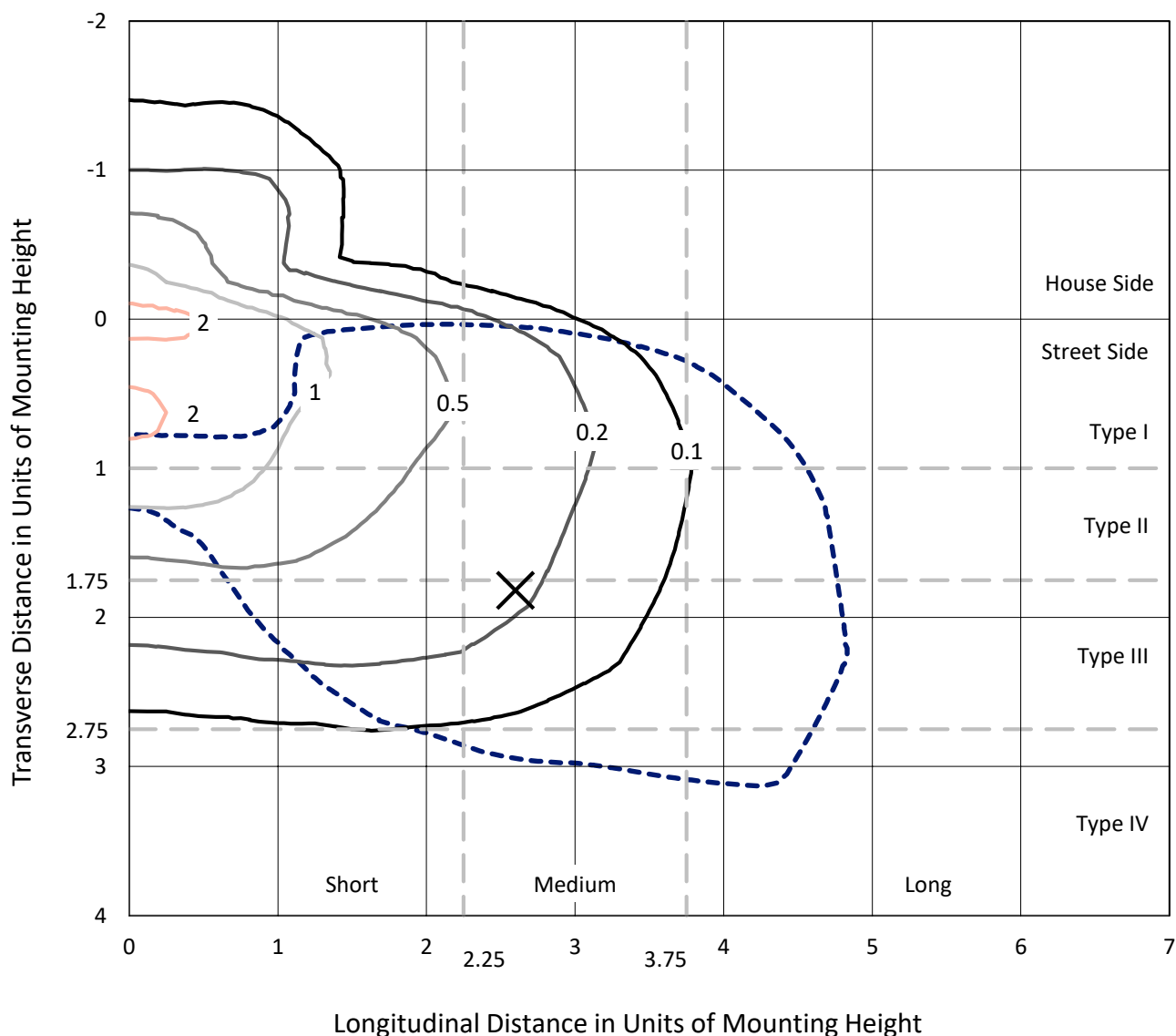
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

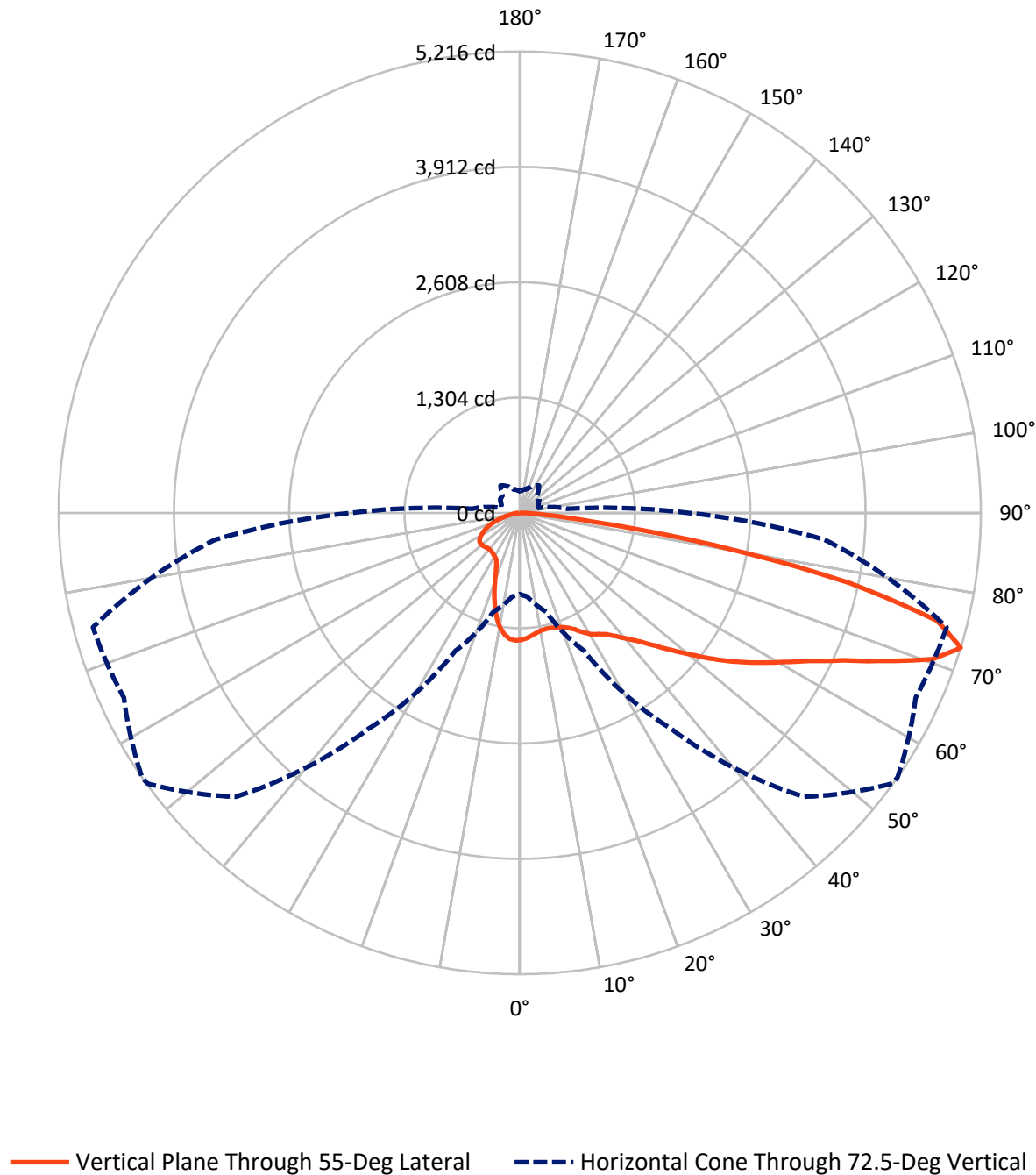
--- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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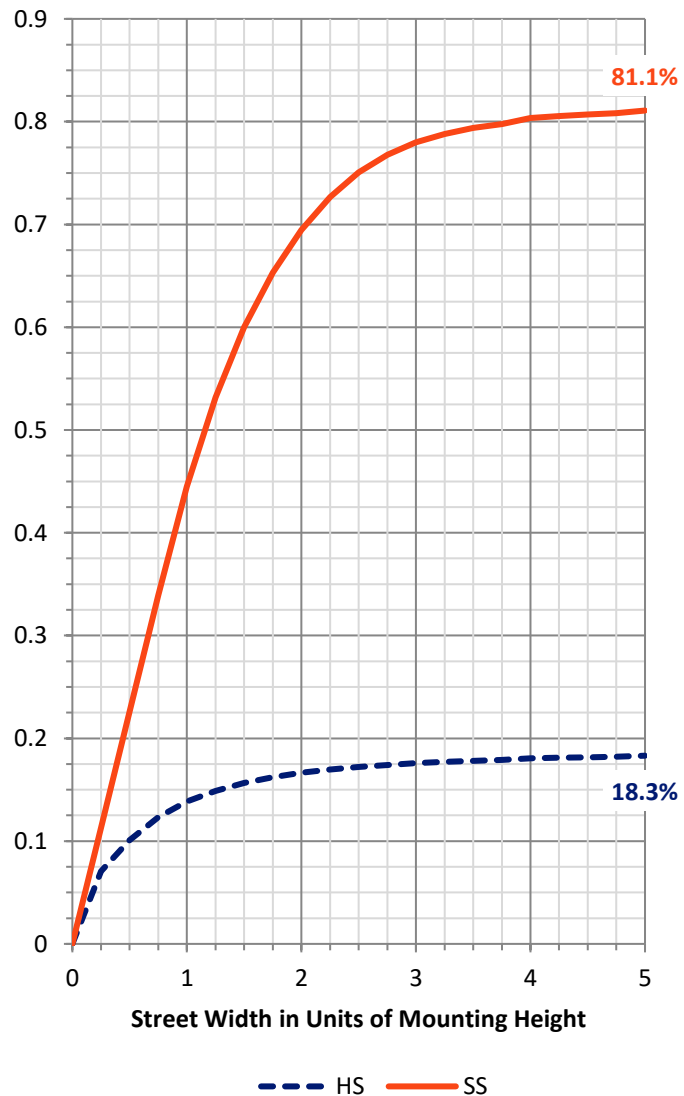
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1515.6	0.0	1515.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	6638.4	0.0	6638.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	8154.0	0.0	8154.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	1.6
10°-20°	346.5	4.2
20°-30°	571.3	7.0
30°-40°	845.0	10.4
40°-50°	1179.5	14.5
50°-60°	1535.7	18.8
60°-70°	1887.4	23.1
70°-80°	1479.5	18.1
80°-90°	179.0	2.2
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°	8154.0	100.0
0°-180°	8154.0	100.0

Coefficient of Utilization



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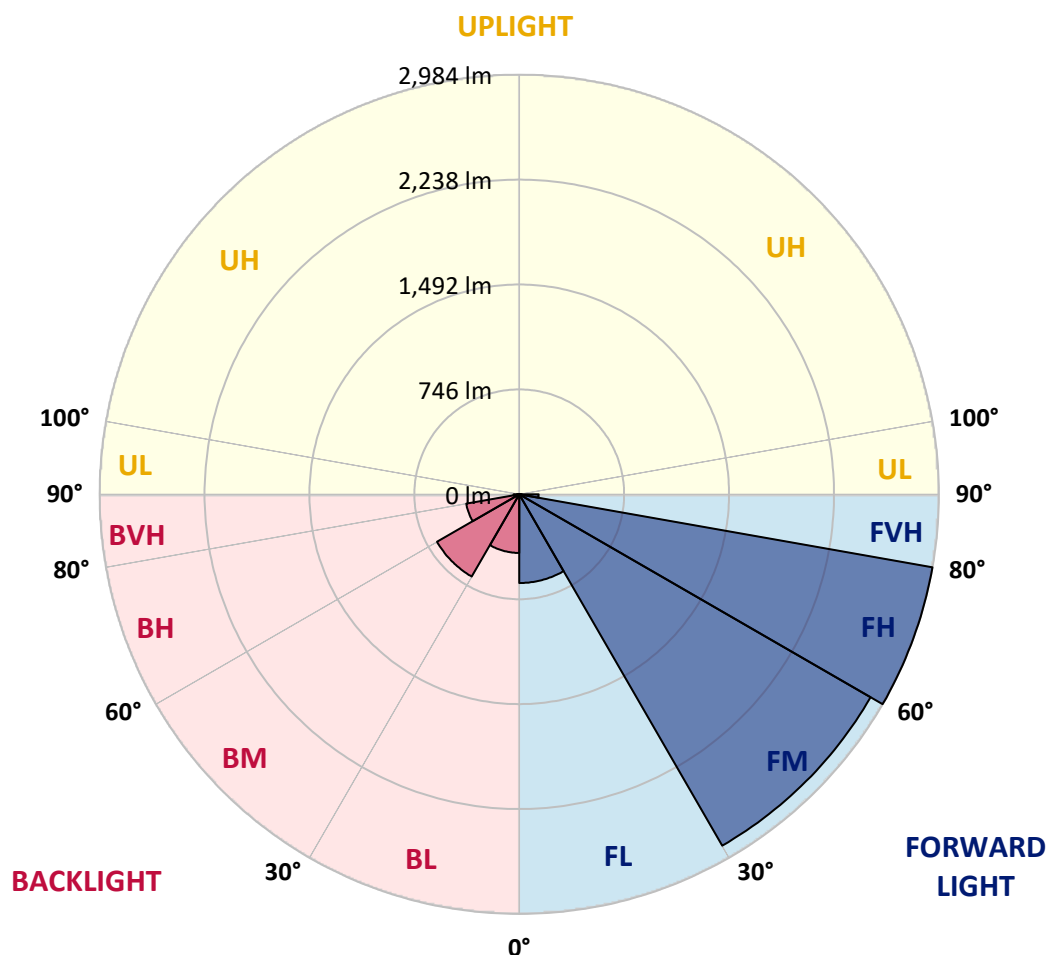
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	630.9	7.7			
FM	(30°-60°)	2885.0	35.4			
FH	(60°-80°)	2984.1	36.6			G2/5000
FVH	(80°-90°)	138.4	1.7			G2/225
BL	(0°-30°)	417.0	5.1	B1/500		
BM	(30°-60°)	675.2	8.3	B1/1000		
BH	(60°-80°)	382.8	4.7	B1/500		G1/500
BVH	(80°-90°)	40.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1438.2	1438.2	1438.2	1438.2	1438.2	1438.2	1438.2	1438.2	1438.2	1438.2	1438.2
2.5°	1391.4	1388.1	1392.2	1398.0	1404.3	1412.9	1417.8	1420.0	1428.6	1431.9	1439.0
5°	1326.9	1325.3	1332.2	1342.1	1356.1	1375.9	1391.9	1395.0	1417.5	1433.5	1448.1
7.5°	1280.1	1280.1	1288.1	1299.9	1315.6	1342.3	1364.9	1369.1	1407.3	1441.8	1468.8
10°	1242.9	1244.3	1253.7	1267.7	1286.2	1314.5	1344.6	1349.2	1404.6	1461.0	1504.0
12.5°	1218.1	1221.4	1230.0	1242.6	1265.5	1299.9	1337.9	1344.3	1410.4	1488.6	1546.4
15°	1233.8	1239.3	1240.2	1245.4	1258.1	1295.5	1341.8	1348.4	1422.8	1516.7	1594.6
17.5°	1302.7	1304.6	1296.1	1285.1	1279.0	1303.0	1353.4	1360.2	1437.6	1544.5	1640.9
20°	1407.3	1406.2	1387.8	1358.0	1327.2	1331.1	1372.4	1379.5	1457.7	1569.0	1687.2
22.5°	1539.5	1535.7	1507.3	1452.5	1399.9	1377.9	1405.7	1411.8	1488.0	1604.0	1736.7
25°	1699.8	1691.3	1653.8	1580.3	1502.9	1446.2	1455.8	1461.6	1532.1	1643.1	1782.2
27.5°	1868.9	1860.4	1812.7	1723.8	1620.8	1532.4	1524.9	1529.9	1582.2	1672.0	1815.8
30°	2045.7	2036.7	1993.1	1893.4	1745.8	1621.6	1589.4	1591.3	1617.5	1687.7	1843.3
32.5°	2223.4	2214.8	2166.1	2050.4	1881.6	1717.5	1635.9	1633.5	1638.7	1704.0	1874.4
35°	2403.5	2406.8	2349.8	2221.7	2032.0	1824.0	1691.0	1685.8	1674.2	1737.3	1918.5
37.5°	2596.3	2594.1	2520.3	2386.4	2189.2	1939.7	1770.1	1769.2	1729.3	1800.4	1987.6
40°	2725.2	2726.6	2681.7	2555.0	2348.1	2067.8	1871.4	1869.5	1817.2	1894.8	2078.2
42.5°	2775.6	2784.7	2796.2	2715.8	2514.5	2216.2	1992.3	1989.6	1939.7	2030.3	2184.8
45°	2779.2	2797.3	2868.9	2858.8	2683.0	2386.2	2146.8	2139.1	2103.3	2210.4	2312.1
47.5°	2748.3	2767.0	2886.0	2943.9	2833.7	2565.4	2327.5	2321.4	2290.6	2435.7	2449.8
50°	2680.8	2698.7	2850.8	2985.4	2957.6	2737.8	2535.7	2519.7	2503.2	2696.0	2607.3
52.5°	2554.4	2588.9	2803.7	2995.4	3031.7	2891.0	2754.6	2744.2	2753.3	2970.6	2765.1
55°	2255.1	2293.6	2682.2	2987.1	3086.5	3019.6	2973.6	2973.0	3020.1	3258.6	2934.5
57.5°	2087.3	2114.6	2434.9	2973.0	3151.5	3147.4	3190.3	3195.6	3287.3	3572.3	3111.9
60°	1992.6	2021.2	2309.6	2921.0	3252.3	3312.6	3411.5	3422.0	3558.8	3919.6	3325.3
62.5°	1906.4	1937.8	2231.9	2815.0	3371.0	3548.9	3676.4	3685.8	3846.4	4276.6	3531.6
65°	1759.0	1794.6	2118.2	2745.3	3479.0	3857.1	4013.3	4019.6	4176.6	4650.6	3689.4
67.5°	1550.8	1583.3	1903.6	2591.3	3558.8	4231.4	4461.1	4464.7	4504.1	4914.7	3770.1
70°	1307.6	1320.0	1597.9	2273.5	3464.4	4581.4	4951.9	4952.7	4802.6	5083.8	3756.9
72.5°	918.8	948.0	1160.0	1721.0	2977.2	4538.8	5206.6	5216.0	4941.4	4998.4	3456.7
75°	563.5	594.3	727.6	1043.0	1888.8	3569.6	4810.6	4875.6	4681.1	4456.7	2823.8
77.5°	376.8	388.3	474.8	608.1	855.7	2053.7	3698.5	3820.8	3888.8	3250.1	1805.9
80°	210.1	232.2	314.8	377.9	380.6	816.0	2217.6	2246.2	2163.6	1294.2	557.2
82.5°	111.3	123.4	210.1	222.0	207.7	273.2	826.5	827.3	691.3	347.0	165.5
85°	86.2	96.4	144.0	135.5	106.0	121.2	272.7	287.5	235.2	142.1	54.0
87.5°	43.0	53.4	97.8	85.9	41.6	34.7	97.5	104.1	92.8	55.6	19.6
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°	1438.2	1438.2	1438.2	1438.2	1438.2	1438.2	1438.2	1438.2	1438.2	1438.2	1438.2
2.5°	1441.8	1444.2	1447.3	1444.0	1442.9	1438.5	1431.0	1429.4	1425.5	1425.8	1428.0
5°	1454.4	1458.6	1456.9	1444.2	1429.1	1407.9	1385.9	1367.1	1354.7	1353.9	1353.1
7.5°	1478.7	1481.4	1468.5	1432.4	1390.0	1341.0	1294.7	1254.2	1229.7	1223.6	1222.3
10°	1516.7	1516.1	1480.6	1407.9	1323.3	1235.8	1161.4	1105.2	1072.4	1062.8	1060.3
12.5°	1559.1	1552.8	1484.7	1363.3	1229.2	1107.7	1013.5	951.0	916.8	905.8	903.1
15°	1602.9	1587.2	1474.5	1296.6	1113.5	969.7	870.8	813.0	794.6	788.5	787.4
17.5°	1643.6	1613.4	1445.4	1206.3	981.6	832.3	755.2	732.0	736.4	744.4	744.7
20°	1683.6	1631.0	1398.5	1092.3	842.5	719.1	692.9	710.0	730.9	747.2	749.4
22.5°	1723.0	1643.4	1338.2	960.6	718.0	655.5	673.9	705.0	729.0	746.6	749.7
25°	1756.0	1646.4	1255.0	820.2	631.5	631.5	664.8	694.3	718.0	735.3	738.4
27.5°	1768.1	1626.0	1137.7	690.2	588.0	620.5	652.2	676.7	696.8	715.2	718.5
30°	1772.8	1588.3	1002.2	585.8	570.1	608.7	635.1	656.0	675.0	692.4	695.4
32.5°	1773.6	1542.8	858.5	526.6	557.7	596.3	613.9	632.3	652.7	659.6	660.7
35°	1778.9	1489.1	707.0	496.3	546.1	584.7	598.7	612.0	578.9	581.4	583.6
37.5°	1794.0	1436.0	580.3	479.2	538.7	578.6	595.4	547.5	521.6	515.6	514.7
40°	1822.4	1379.3	486.4	465.4	535.9	581.7	574.2	511.2	466.5	433.2	428.3
42.5°	1861.8	1318.1	426.3	456.4	537.9	596.3	544.8	476.2	402.1	380.6	377.9
45°	1906.1	1253.9	393.8	450.0	544.5	607.6	538.7	429.6	372.1	355.8	354.5
47.5°	1949.1	1175.4	377.0	447.3	553.6	598.5	513.1	415.3	357.8	349.2	350.0
50°	1998.4	1104.7	366.8	444.2	561.6	592.7	484.2	407.9	352.2	362.7	373.7
52.5°	2040.0	1031.4	357.8	438.2	564.6	582.5	476.7	409.3	352.2	372.4	382.8
55°	2089.3	976.1	347.3	425.5	558.8	553.6	471.5	417.5	356.4	343.7	344.8
57.5°	2152.9	957.9	335.7	405.7	539.5	511.4	469.0	425.5	353.9	345.9	348.7
60°	2241.0	977.2	331.0	379.8	509.5	478.4	469.3	421.4	336.6	322.8	323.1
62.5°	2325.0	998.6	330.8	363.5	472.6	448.9	463.0	407.9	327.7	319.8	322.8
65°	2352.6	976.9	317.5	345.4	431.0	413.7	451.4	393.6	321.1	309.0	308.5
67.5°	2315.6	909.4	290.8	315.9	383.4	372.6	436.2	376.5	310.7	300.7	299.1
70°	2206.0	758.8	257.8	277.1	329.1	326.4	412.3	356.7	296.6	288.1	280.9
72.5°	1911.1	540.6	217.3	230.5	268.0	276.8	379.2	330.8	276.8	258.3	247.3
75°	1569.6	400.2	178.5	181.2	203.5	227.5	333.8	300.5	253.4	222.0	213.4
77.5°	961.2	244.8	142.1	143.2	146.0	181.5	274.9	266.6	223.6	185.1	179.0
80°	311.2	133.6	102.7	108.0	99.7	133.0	212.6	226.9	192.0	154.8	148.2
82.5°	118.4	77.9	69.4	73.0	69.1	89.2	155.1	181.8	157.3	127.2	103.6
85°	57.3	44.1	41.0	46.0	42.7	45.7	99.1	133.8	119.3	82.9	77.1
87.5°	20.4	19.6	15.7	21.2	18.2	16.2	30.3	67.5	78.8	57.0	51.0
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)