

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: P459645

Luminaire Tested: **GAN-SA7A-AMB-U-SL3**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-AMB-U-SL3
Description: GALLEON ROADWAY AND AREA LUMINAIRE
(7) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7175 lumens
Efficiency: N/A
Efficacy: 51.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

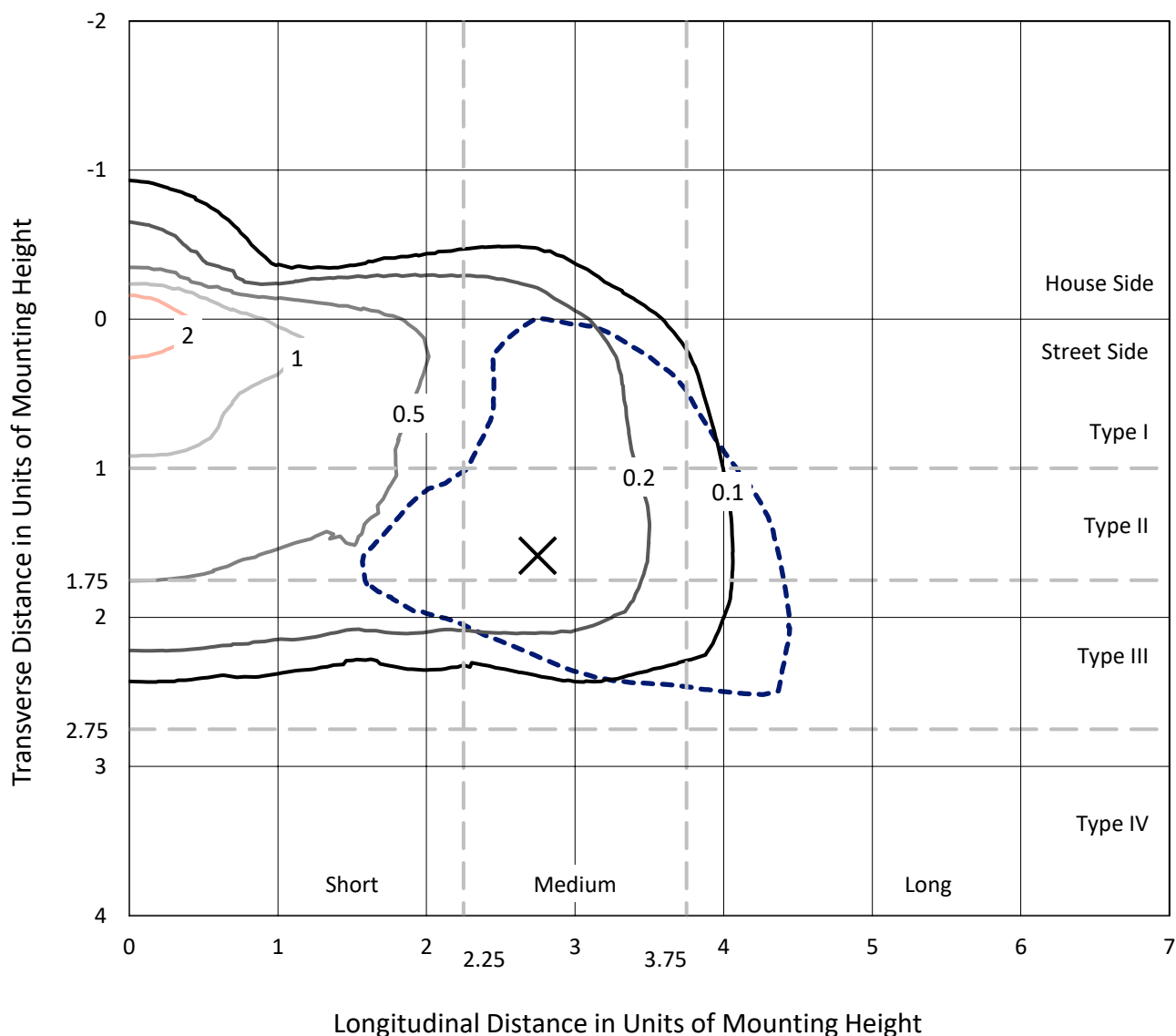
Input Watts (W): 138.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

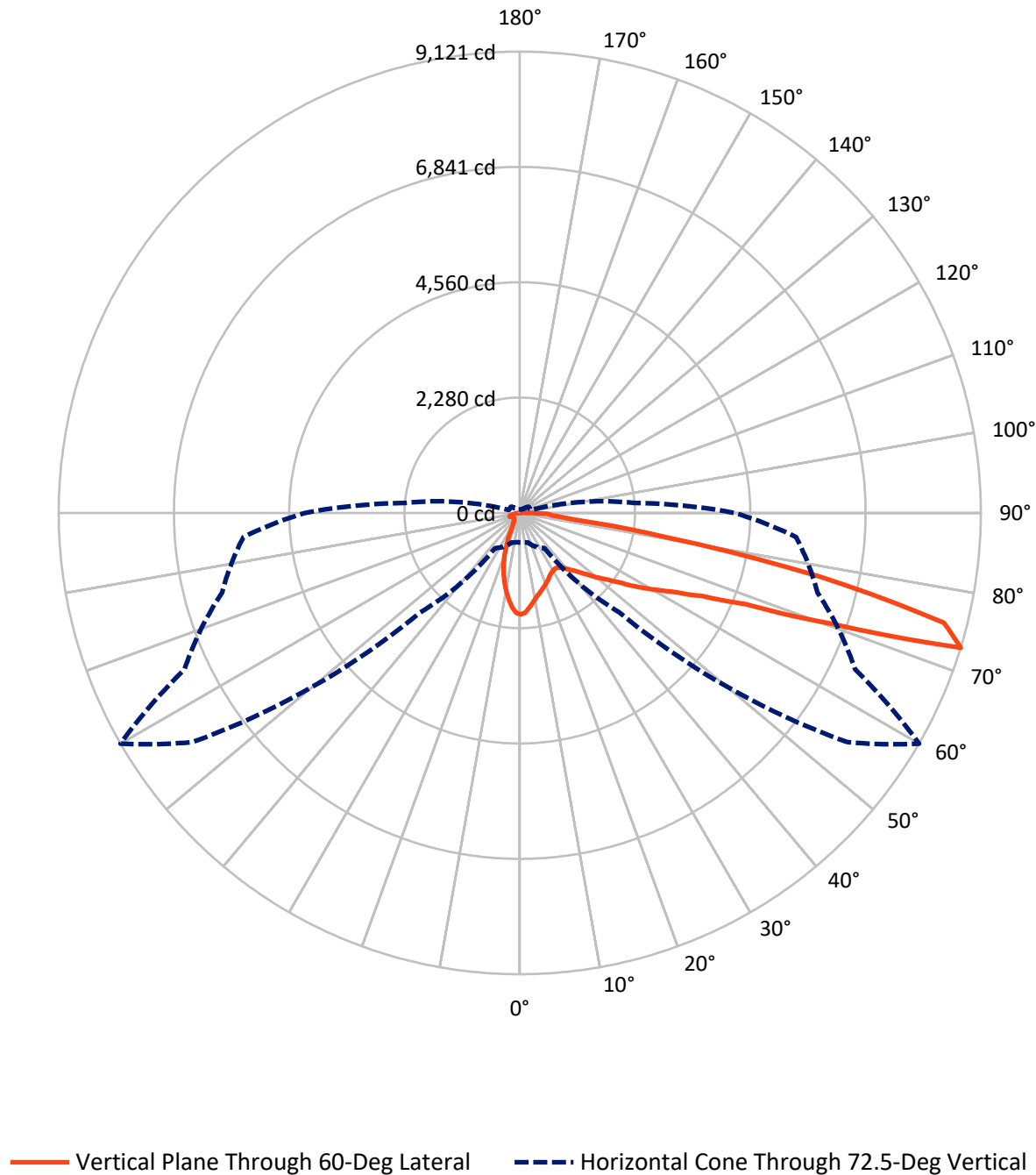
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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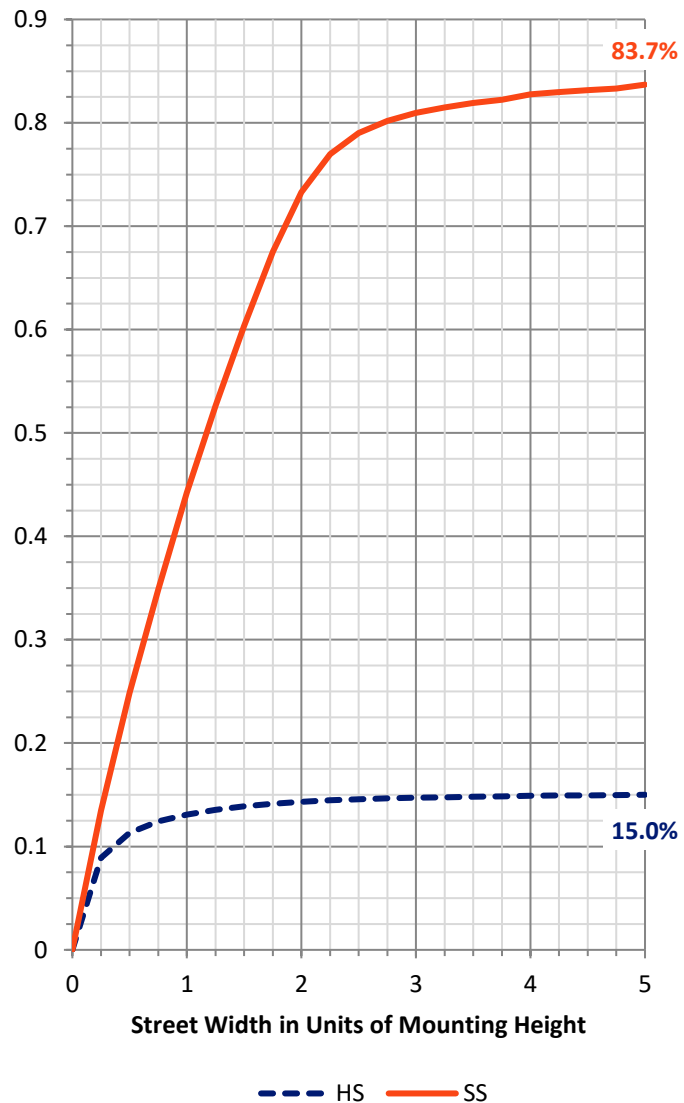
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1090.2	0.0	1090.2
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	6084.8	0.0	6084.8
	% Fixture	84.8	0.0	84.8
Total	Lumens	7175.0	0.0	7175.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.4	2.3
10°-20°	357.4	5.0
20°-30°	441.9	6.2
30°-40°	558.6	7.8
40°-50°	793.4	11.1
50°-60°	1209.4	16.9
60°-70°	1824.3	25.4
70°-80°	1604.9	22.4
80°-90°	216.8	3.0
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°	7175.0	100.0
0°-180°	7175.0	100.0

Coefficient of Utilization



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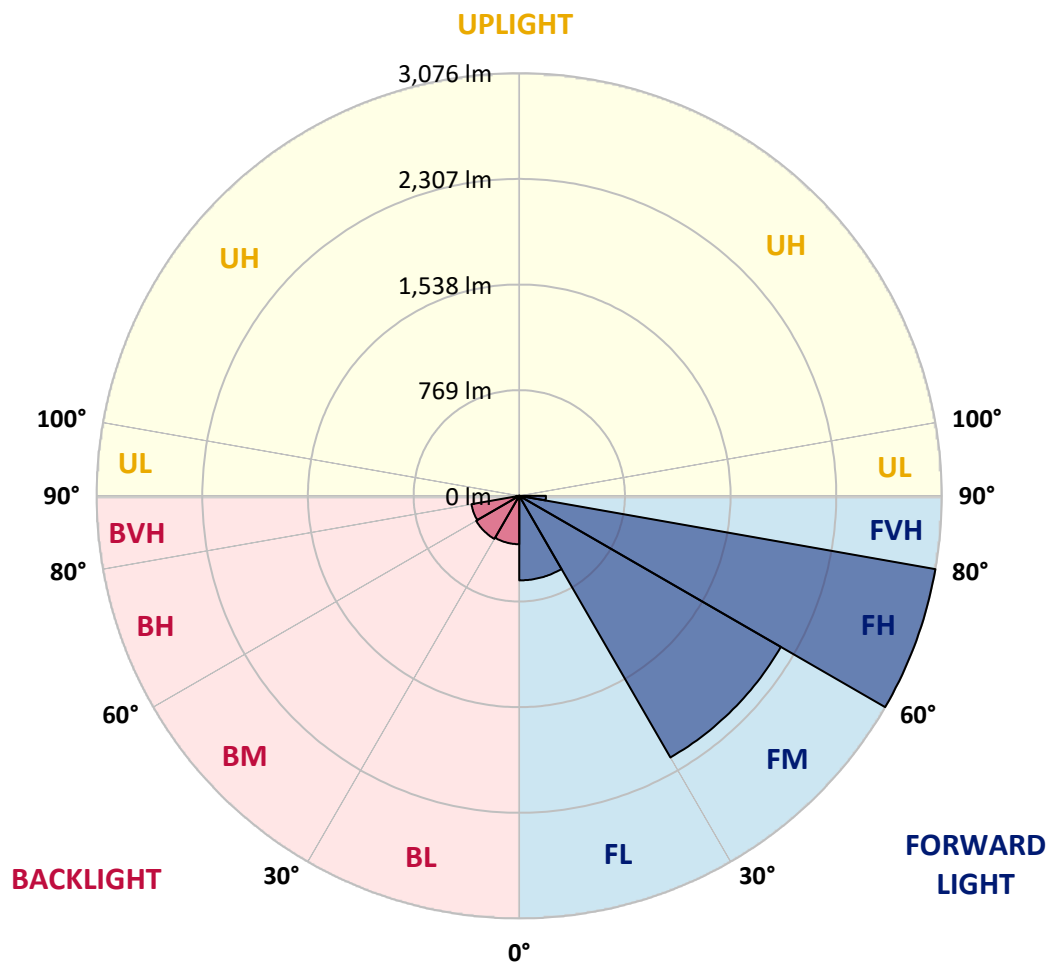
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	615.5	8.6			
FM	(30°-60°)	2199.1	30.6			
FH	(60°-80°)	3076.0	42.9			G2/5000
FVH	(80°-90°)	194.1	2.7			G2/225
BL	(0°-30°)	352.1	4.9	B1/500		
BM	(30°-60°)	362.3	5.0	B1/1000		
BH	(60°-80°)	353.1	4.9	B1/500		G1/500
BVH	(80°-90°)	22.6	0.3			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 III Medium



Cooper Lighting Solutions Photometric Lab

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2005.7	2005.7	2005.7	2005.7	2005.7	2005.7	2005.7	2005.7	2005.7	2005.7	2005.7
2.5°	1950.5	1950.5	1950.5	1962.8	1965.8	1965.8	1978.1	1978.1	1975.0	1987.3	1984.2
5°	1830.9	1837.0	1837.0	1843.1	1861.5	1870.7	1889.1	1892.2	1901.4	1919.8	1932.1
7.5°	1683.7	1692.9	1708.2	1732.7	1751.1	1766.5	1800.2	1800.2	1815.5	1843.1	1864.6
10°	1545.7	1548.7	1561.0	1588.6	1625.4	1665.3	1705.1	1717.4	1735.8	1769.5	1803.3
12.5°	1450.6	1456.7	1462.9	1487.4	1527.3	1567.1	1628.5	1653.0	1674.5	1714.3	1760.3
15°	1349.4	1352.5	1367.8	1398.5	1447.5	1490.5	1561.0	1594.7	1628.5	1680.6	1729.7
17.5°	1281.9	1278.9	1291.1	1312.6	1364.7	1423.0	1499.7	1539.5	1579.4	1649.9	1702.1
20°	1245.1	1248.2	1248.2	1254.3	1288.1	1346.3	1435.3	1487.4	1539.5	1631.5	1686.7
22.5°	1235.9	1235.9	1226.7	1223.7	1239.0	1288.1	1377.0	1435.3	1496.6	1628.5	1677.5
25°	1235.9	1235.9	1226.7	1214.5	1214.5	1242.1	1321.8	1377.0	1450.6	1631.5	1665.3
27.5°	1257.4	1257.4	1245.1	1226.7	1211.4	1217.5	1278.9	1337.1	1419.9	1637.7	1656.1
30°	1291.1	1288.1	1278.9	1263.5	1232.9	1211.4	1257.4	1309.5	1389.3	1653.0	1649.9
32.5°	1324.9	1327.9	1321.8	1309.5	1275.8	1229.8	1254.3	1303.4	1383.1	1674.5	1649.9
35°	1377.0	1380.1	1380.1	1367.8	1340.2	1275.8	1285.0	1327.9	1401.5	1708.2	1662.2
37.5°	1435.3	1435.3	1444.5	1444.5	1410.7	1340.2	1343.3	1377.0	1438.3	1754.2	1692.9
40°	1493.5	1493.5	1508.9	1530.3	1502.7	1429.1	1432.2	1456.7	1511.9	1818.6	1754.2
42.5°	1567.1	1561.0	1594.7	1622.3	1610.1	1542.6	1527.3	1557.9	1597.8	1907.5	1846.2
45°	1619.3	1619.3	1671.4	1705.1	1732.7	1665.3	1656.1	1680.6	1720.5	2005.7	1975.0
47.5°	1680.6	1683.7	1738.9	1809.4	1852.3	1812.5	1800.2	1833.9	1861.5	2134.5	2137.6
50°	1732.7	1741.9	1815.5	1916.7	1987.3	1990.4	1968.9	2011.8	2011.8	2278.6	2327.7
52.5°	1803.3	1818.6	1913.7	2024.1	2140.6	2180.5	2186.6	2198.9	2202.0	2456.5	2539.3
55°	1981.2	1999.6	2079.3	2171.3	2309.3	2401.3	2465.7	2444.2	2419.7	2649.7	2760.1
57.5°	2297.0	2281.7	2312.4	2333.8	2468.8	2619.0	2778.5	2769.3	2695.7	2873.6	2996.3
60°	2570.0	2576.1	2616.0	2563.8	2652.8	2888.9	3076.0	3079.1	2953.3	3112.8	3214.0
62.5°	2594.5	2634.4	2803.1	2919.6	3054.5	3201.7	3486.9	3447.1	3284.5	3345.9	3468.5
65°	2113.0	2165.2	2441.2	2821.5	3517.6	4143.2	3989.9	3971.5	3689.4	3671.0	3827.4
67.5°	1088.7	1128.6	1275.8	1978.1	3164.9	5115.4	5216.6	4821.0	4247.5	4167.8	4357.9
70°	745.2	748.3	748.3	901.6	1545.7	4689.1	7421.7	6584.4	5357.7	4995.8	5235.0
72.5°	582.7	582.7	604.2	736.0	849.5	2781.6	7900.1	9120.7	7317.4	6096.8	5486.5
75°	435.5	438.6	478.4	613.4	828.0	831.1	6608.9	8663.7	8265.0	6014.0	4262.8
77.5°	331.2	325.1	377.2	506.0	806.6	757.5	3566.7	6053.9	5851.5	4088.0	1545.7
80°	208.5	217.7	254.5	423.2	772.8	757.5	1248.2	2953.3	2364.5	978.3	260.7
82.5°	119.6	125.7	159.5	263.7	693.1	754.4	779.0	1070.3	585.8	242.3	122.7
85°	70.5	70.5	101.2	165.6	503.0	745.2	757.5	644.0	325.1	125.7	64.4
87.5°	30.7	36.8	58.3	79.7	226.9	628.7	687.0	545.9	236.1	70.5	33.7
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°	2005.7	2005.7	2005.7	2005.7	2005.7	2005.7	2005.7	2005.7	2005.7	2005.7	2005.7
2.5°	1981.2	1981.2	1975.0	1975.0	1978.1	1962.8	1959.7	1950.5	1956.6	1953.6	1941.3
5°	1929.0	1925.9	1919.8	1886.1	1867.7	1821.7	1821.7	1794.1	1784.9	1784.9	1766.5
7.5°	1864.6	1855.4	1815.5	1760.3	1708.2	1659.1	1613.1	1579.4	1554.9	1533.4	1536.5
10°	1803.3	1784.9	1720.5	1625.4	1542.6	1450.6	1380.1	1300.3	1257.4	1196.1	1220.6
12.5°	1754.2	1726.6	1622.3	1487.4	1364.7	1229.8	1088.7	969.1	871.0	809.6	772.8
15°	1714.3	1668.3	1515.0	1346.3	1180.7	984.4	794.3	631.8	509.1	472.3	475.4
17.5°	1677.5	1613.1	1419.9	1202.2	978.3	739.1	521.4	414.0	374.1	355.7	355.7
20°	1643.8	1548.7	1297.3	1042.7	754.4	496.8	374.1	337.3	322.0	312.8	309.7
22.5°	1600.9	1490.5	1177.7	877.1	539.8	358.8	309.7	291.3	288.3	288.3	288.3
25°	1567.1	1419.9	1051.9	671.6	374.1	291.3	266.8	263.7	266.8	269.9	269.9
27.5°	1527.3	1349.4	926.2	472.3	285.2	245.3	236.1	242.3	248.4	254.5	254.5
30°	1490.5	1281.9	791.2	331.2	236.1	214.7	214.7	220.8	230.0	236.1	236.1
32.5°	1465.9	1232.9	631.8	260.7	208.5	196.3	199.3	202.4	211.6	214.7	214.7
35°	1447.5	1183.8	475.4	220.8	190.1	184.0	187.1	190.1	193.2	196.3	196.3
37.5°	1450.6	1156.2	340.4	196.3	177.9	174.8	177.9	177.9	177.9	180.9	180.9
40°	1487.4	1143.9	269.9	180.9	171.7	168.7	168.7	165.6	165.6	168.7	168.7
42.5°	1542.6	1147.0	239.2	174.8	165.6	162.5	159.5	156.4	156.4	156.4	156.4
45°	1631.5	1177.7	220.8	168.7	162.5	156.4	150.3	147.2	147.2	153.3	153.3
47.5°	1763.4	1223.7	202.4	165.6	156.4	147.2	144.1	141.1	144.1	147.2	150.3
50°	1916.7	1263.5	193.2	162.5	156.4	141.1	138.0	134.9	138.0	147.2	147.2
52.5°	2094.6	1321.8	190.1	162.5	153.3	138.0	131.9	131.9	134.9	144.1	144.1
55°	2294.0	1410.7	193.2	162.5	150.3	134.9	128.8	125.7	131.9	138.0	138.0
57.5°	2502.5	1530.3	199.3	162.5	144.1	134.9	125.7	119.6	122.7	128.8	128.8
60°	2711.0	1692.9	208.5	159.5	141.1	131.9	122.7	113.5	113.5	119.6	119.6
62.5°	2959.5	1895.3	239.2	165.6	141.1	125.7	113.5	104.3	104.3	107.3	107.3
65°	3284.5	2189.7	285.2	187.1	153.3	119.6	104.3	95.1	95.1	95.1	95.1
67.5°	3821.2	2658.9	303.6	208.5	174.8	119.6	98.1	88.9	85.9	85.9	82.8
70°	4520.5	2965.6	269.9	217.7	208.5	122.7	92.0	79.7	76.7	76.7	73.6
72.5°	4244.4	2260.2	230.0	211.6	211.6	125.7	88.9	76.7	70.5	67.5	67.5
75°	2916.5	1048.8	202.4	196.3	184.0	107.3	82.8	70.5	64.4	58.3	58.3
77.5°	858.7	282.1	168.7	171.7	141.1	88.9	76.7	64.4	58.3	52.1	52.1
80°	202.4	162.5	122.7	125.7	95.1	67.5	61.3	58.3	52.1	46.0	46.0
82.5°	116.5	104.3	85.9	79.7	58.3	46.0	49.1	49.1	46.0	39.9	36.8
85°	58.3	61.3	52.1	46.0	36.8	30.7	30.7	33.7	30.7	24.5	24.5
87.5°	33.7	30.7	33.7	24.5	18.4	15.3	18.4	18.4	18.4	12.3	12.3
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)