

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: P459651

Luminaire Tested: **GAN-SA8A-AMB-U-SL2**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-AMB-U-SL2
Description: GALLEON ROADWAY AND AREA LUMINAIRE
(8) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8111 lumens
Efficiency: N/A
Efficacy: 51.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 158.7
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



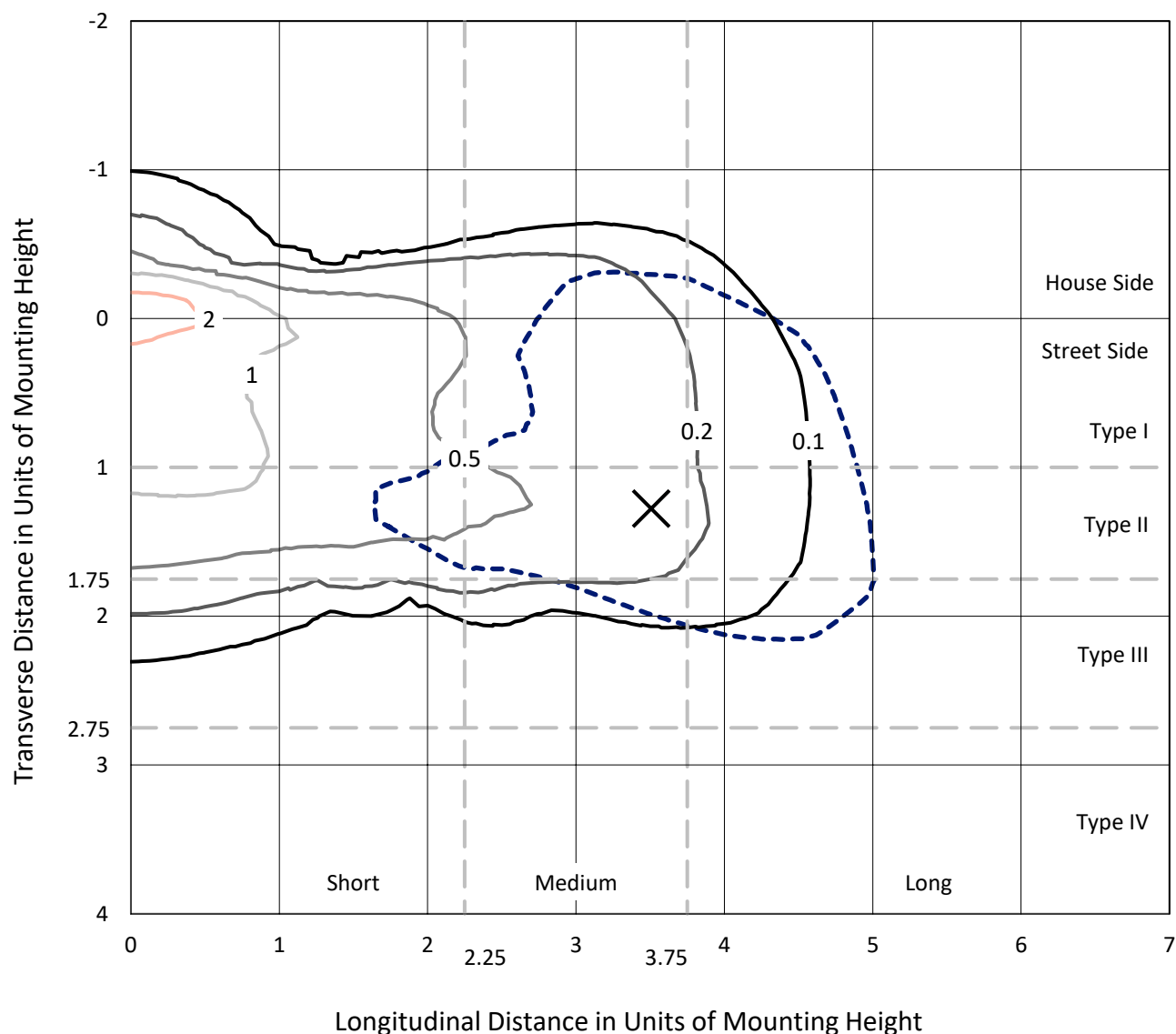
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

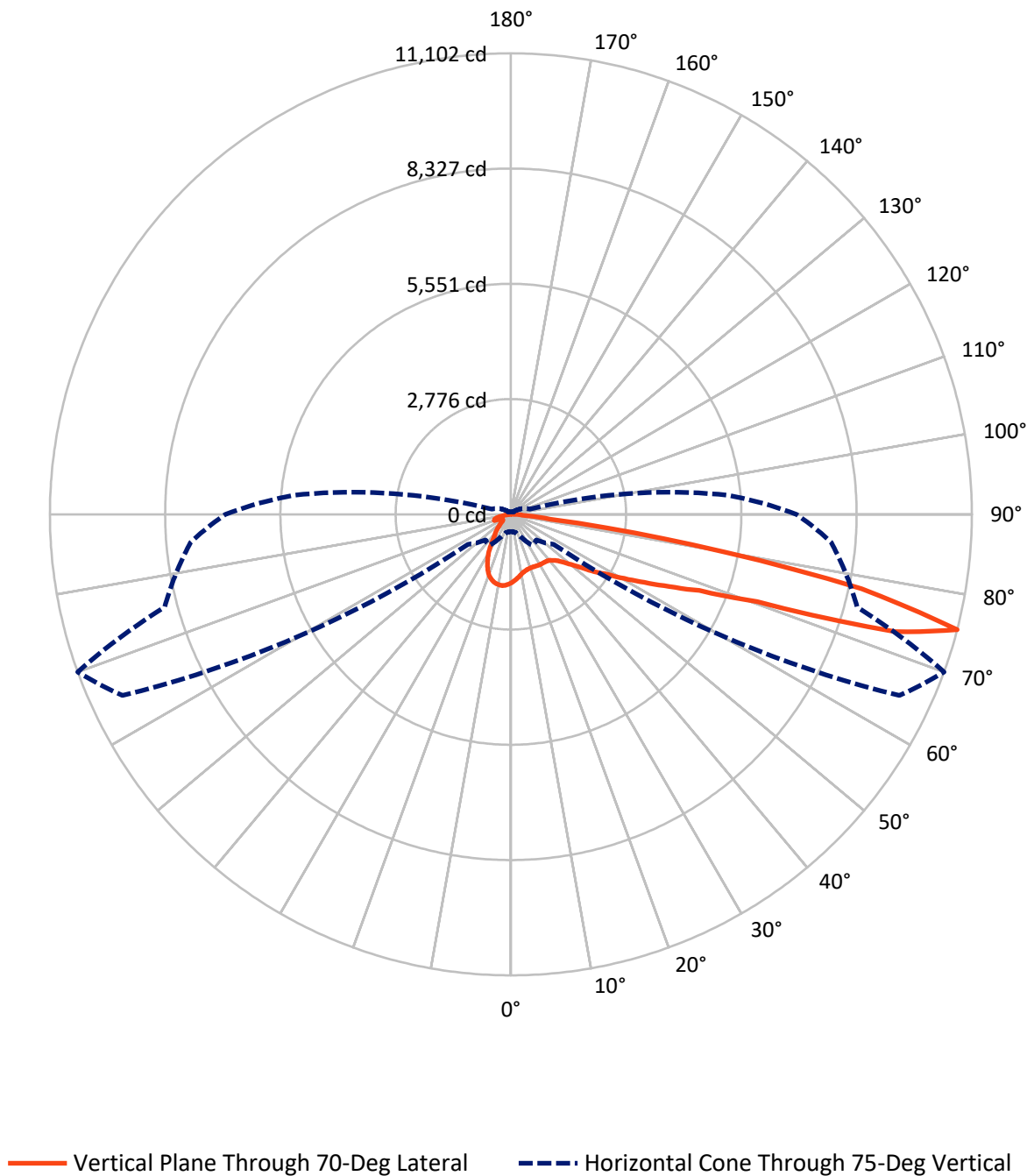
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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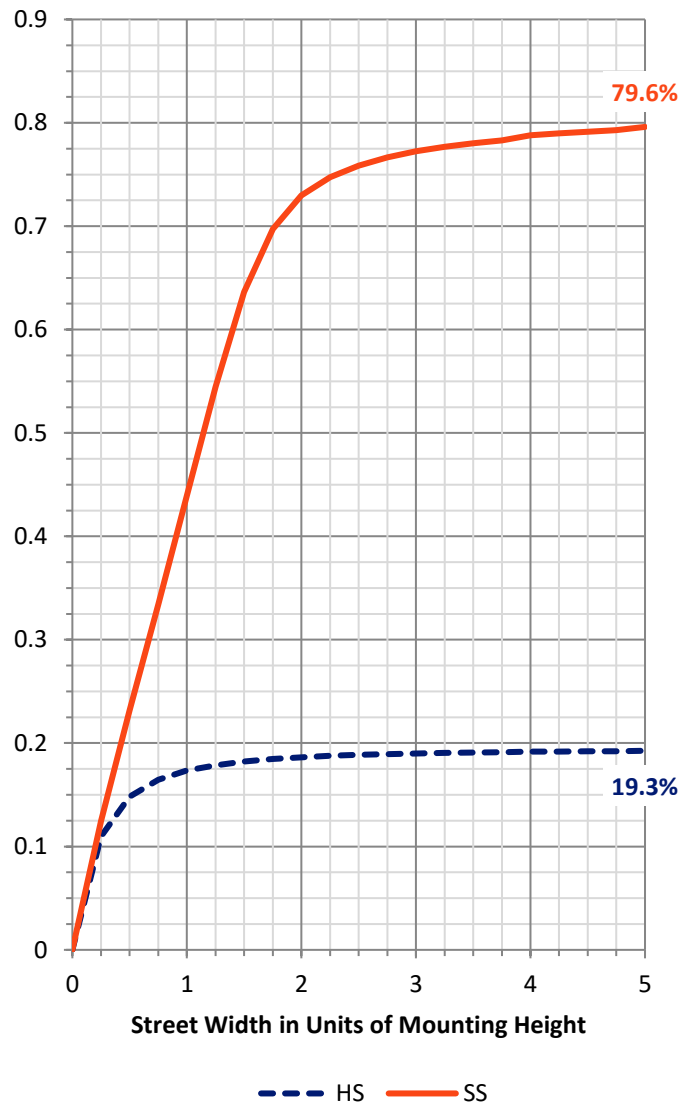
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1582.7	0.0	1582.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	6528.4	0.0	6528.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	8111.0	0.0	8111.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.3	1.8
10°-20°	363.0	4.5
20°-30°	488.2	6.0
30°-40°	642.1	7.9
40°-50°	915.9	11.3
50°-60°	1426.8	17.6
60°-70°	1862.7	23.0
70°-80°	1979.5	24.4
80°-90°	283.5	3.5
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°	8111.0	100.0
0°-180°	8111.0	100.0

Coefficient of Utilization



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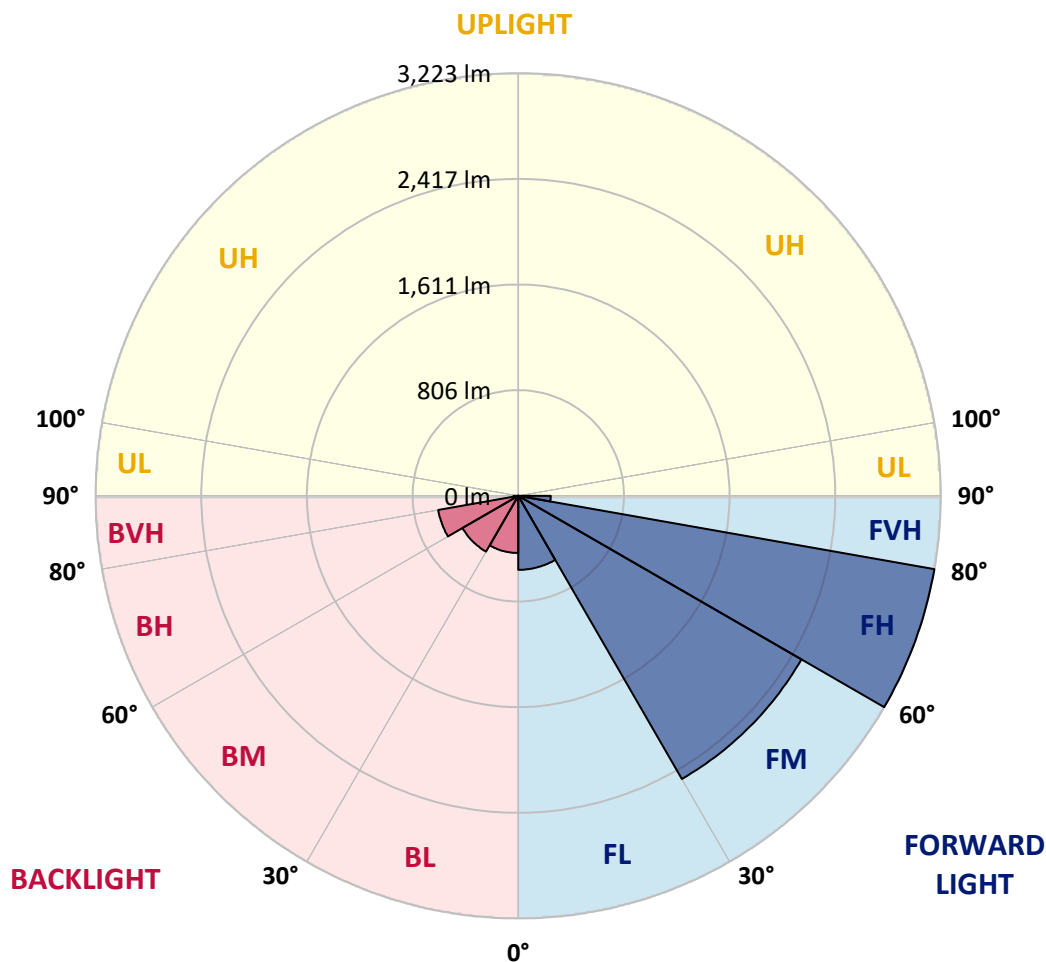
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	564.3	7.0			
FM	(30°-60°)	2493.5	30.7			
FH	(60°-80°)	3222.7	39.7			G2/5000
FVH	(80°-90°)	247.8	3.1			G3/500
BL	(0°-30°)	436.1	5.4	B1/500		
BM	(30°-60°)	491.3	6.1	B1/1000		
BH	(60°-80°)	619.5	7.6	B2/1000		G2/1000
BVH	(80°-90°)	35.7	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-G3

Type III Medium



Cooper Lighting Solutions Photometric Lab

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1650.1	1650.1	1650.1	1650.1	1650.1	1650.1	1650.1	1650.1	1650.1	1650.1	1650.1
2.5°	1545.8	1545.8	1556.3	1556.3	1570.2	1573.6	1587.5	1594.5	1601.4	1611.8	1632.7
5°	1434.7	1431.2	1441.6	1459.0	1476.4	1493.7	1518.1	1542.4	1552.8	1570.2	1604.9
7.5°	1351.3	1351.3	1358.3	1368.7	1393.0	1413.8	1452.0	1479.8	1504.2	1528.5	1577.1
10°	1288.8	1288.8	1295.7	1306.2	1330.5	1347.8	1382.6	1431.2	1452.0	1486.8	1549.3
12.5°	1229.7	1236.7	1240.1	1254.0	1271.4	1295.7	1330.5	1382.6	1417.3	1459.0	1542.4
15°	1201.9	1201.9	1205.4	1215.8	1233.2	1257.5	1299.2	1354.8	1393.0	1441.6	1545.8
17.5°	1195.0	1191.5	1188.0	1191.5	1208.9	1233.2	1274.9	1337.4	1379.1	1434.7	1563.2
20°	1198.5	1195.0	1191.5	1184.6	1191.5	1215.8	1267.9	1330.5	1372.2	1431.2	1591.0
22.5°	1215.8	1215.8	1208.9	1195.0	1191.5	1208.9	1264.5	1330.5	1375.6	1434.7	1618.8
25°	1264.5	1261.0	1254.0	1226.3	1205.4	1212.4	1264.5	1337.4	1382.6	1441.6	1643.1
27.5°	1316.6	1316.6	1309.6	1285.3	1243.6	1226.3	1271.4	1347.8	1393.0	1448.6	1670.9
30°	1399.9	1396.5	1389.5	1361.7	1309.6	1254.0	1285.3	1358.3	1399.9	1452.0	1695.2
32.5°	1500.7	1500.7	1504.2	1469.4	1393.0	1302.7	1299.2	1365.2	1403.4	1455.5	1723.0
35°	1618.8	1622.3	1632.7	1604.9	1511.1	1375.6	1333.9	1382.6	1410.4	1459.0	1750.8
37.5°	1705.6	1709.1	1747.3	1754.3	1643.1	1472.9	1389.5	1417.3	1424.3	1465.9	1778.6
40°	1806.4	1806.4	1862.0	1903.6	1830.7	1608.4	1465.9	1459.0	1455.5	1493.7	1813.3
42.5°	1917.5	1931.4	1980.1	2049.5	2018.3	1764.7	1573.6	1531.9	1514.6	1542.4	1868.9
45°	2021.8	2028.7	2119.0	2198.9	2202.4	1976.6	1726.5	1646.6	1597.9	1629.2	1969.6
47.5°	2136.4	2146.8	2258.0	2386.5	2410.8	2202.4	1900.2	1789.0	1726.5	1757.7	2115.5
50°	2303.1	2320.5	2414.3	2570.6	2636.6	2469.9	2122.5	1987.0	1917.5	1931.4	2320.5
52.5°	2570.6	2567.1	2612.3	2765.1	2924.9	2765.1	2421.2	2230.2	2136.4	2157.2	2584.5
55°	2730.4	2726.9	2789.5	2956.2	3248.0	3136.8	2751.3	2518.5	2431.7	2421.2	2890.2
57.5°	2588.0	2594.9	2702.6	2963.2	3466.9	3717.0	3112.5	2869.4	2720.0	2737.4	3261.9
60°	2164.2	2122.5	2244.1	2598.4	3400.9	4366.6	3626.7	3293.2	3136.8	3105.6	3730.9
62.5°	1459.0	1472.9	1552.8	1782.1	2911.0	4543.7	4939.7	3821.2	3605.8	3550.2	4172.0
65°	1097.7	1094.2	1097.7	1135.9	1577.1	4377.0	6298.0	4522.9	4185.9	4001.8	4637.5
67.5°	917.1	906.7	903.2	990.0	983.1	2754.7	6749.6	6117.4	4898.1	4509.0	5089.1
70°	778.1	757.3	750.3	889.3	913.6	976.1	6697.5	9084.0	6291.1	5217.7	5686.6
72.5°	590.5	587.1	601.0	757.3	899.7	854.6	4033.1	10383.2	9674.5	6586.3	6919.8
75°	420.3	416.9	455.1	614.9	913.6	868.5	1261.0	10320.7	11102.3	8632.4	7743.1
77.5°	277.9	274.4	309.2	441.2	858.0	871.9	823.3	7472.2	8632.4	8087.0	6346.6
80°	184.1	177.2	201.5	305.7	687.8	934.5	805.9	3699.6	4401.3	3744.8	2108.6
82.5°	107.7	104.2	128.5	211.9	451.6	924.0	812.9	1163.7	951.8	486.3	264.0
85°	55.6	59.1	83.4	128.5	291.8	816.3	868.5	597.5	277.9	198.0	132.0
87.5°	17.4	24.3	45.2	69.5	163.3	562.8	771.2	462.0	201.5	128.5	72.9
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°	1650.1	1650.1	1650.1	1650.1	1650.1	1650.1	1650.1	1650.1	1650.1	1650.1	1650.1
2.5°	1639.6	1650.1	1670.9	1695.2	1719.5	1730.0	1743.8	1747.3	1754.3	1757.7	1754.3
5°	1629.2	1653.5	1698.7	1730.0	1750.8	1747.3	1743.8	1733.4	1730.0	1726.5	1719.5
7.5°	1608.4	1650.1	1716.1	1743.8	1730.0	1688.3	1653.5	1611.8	1597.9	1580.6	1577.1
10°	1597.9	1657.0	1723.0	1719.5	1664.0	1584.1	1514.6	1448.6	1403.4	1375.6	1361.7
12.5°	1608.4	1681.3	1736.9	1674.4	1577.1	1455.5	1333.9	1233.2	1132.5	1097.7	1080.4
15°	1639.6	1719.5	1736.9	1615.3	1465.9	1292.3	1108.1	948.3	830.2	771.2	760.8
17.5°	1677.8	1750.8	1712.6	1542.4	1337.4	1087.3	868.5	663.5	573.2	548.9	545.4
20°	1723.0	1789.0	1674.4	1452.0	1170.7	875.4	590.5	486.3	475.9	479.4	482.9
22.5°	1761.2	1806.4	1611.8	1330.5	972.7	587.1	413.4	392.5	413.4	441.2	448.1
25°	1789.0	1796.0	1542.4	1177.6	746.9	375.2	326.5	323.1	354.3	403.0	416.9
27.5°	1806.4	1761.2	1448.6	1014.4	458.5	291.8	267.5	277.9	302.2	337.0	343.9
30°	1816.8	1726.5	1358.3	844.1	291.8	246.6	243.2	250.1	260.5	277.9	281.4
32.5°	1820.3	1691.7	1261.0	628.8	246.6	225.8	225.8	232.7	236.2	246.6	246.6
35°	1813.3	1650.1	1163.7	396.0	225.8	218.8	215.4	215.4	215.4	218.8	218.8
37.5°	1796.0	1608.4	1049.1	264.0	215.4	208.4	205.0	205.0	201.5	201.5	201.5
40°	1785.5	1573.6	941.4	229.3	205.0	201.5	198.0	191.1	187.6	187.6	187.6
42.5°	1796.0	1556.3	809.4	218.8	198.0	194.5	187.6	180.6	180.6	180.6	180.6
45°	1841.1	1559.7	642.7	211.9	194.5	187.6	177.2	170.2	170.2	173.7	173.7
47.5°	1928.0	1591.0	496.8	205.0	187.6	180.6	166.7	163.3	163.3	163.3	163.3
50°	2060.0	1653.5	392.5	198.0	184.1	173.7	163.3	156.3	156.3	156.3	152.8
52.5°	2247.6	1768.2	309.2	194.5	180.6	170.2	156.3	149.4	145.9	145.9	142.4
55°	2508.1	1948.8	284.9	194.5	173.7	163.3	149.4	139.0	135.5	132.0	132.0
57.5°	2855.5	2205.9	281.4	191.1	163.3	152.8	139.0	128.5	125.1	125.1	121.6
60°	3279.3	2549.8	284.9	184.1	156.3	142.4	128.5	121.6	114.6	114.6	114.6
62.5°	3755.2	2924.9	284.9	180.6	152.8	135.5	121.6	111.2	107.7	104.2	104.2
65°	4238.0	3383.5	305.7	177.2	145.9	121.6	111.2	104.2	97.3	97.3	97.3
67.5°	4769.5	3942.8	416.9	177.2	139.0	111.2	100.7	93.8	90.3	90.3	90.3
70°	5457.3	4866.8	632.2	222.3	142.4	104.2	90.3	86.8	83.4	83.4	83.4
72.5°	6871.2	5933.3	503.7	309.2	166.7	93.8	79.9	76.4	76.4	72.9	72.9
75°	6878.1	5262.8	479.4	330.0	180.6	86.8	72.9	69.5	66.0	66.0	66.0
77.5°	5085.6	3435.6	409.9	257.1	156.3	76.4	66.0	62.5	59.1	59.1	59.1
80°	1500.7	885.8	257.1	187.6	100.7	62.5	55.6	52.1	48.6	48.6	48.6
82.5°	257.1	232.7	118.1	100.7	62.5	48.6	45.2	41.7	38.2	38.2	38.2
85°	125.1	121.6	66.0	55.6	41.7	34.7	34.7	31.3	27.8	27.8	27.8
87.5°	76.4	69.5	48.6	31.3	24.3	17.4	20.8	17.4	17.4	13.9	13.9
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)