

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: P459659

Luminaire Tested: **GAN-SA9A-AMB-U-SL2**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459659
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-SA9A-AMB-U-SL2
Description: GALLEON ROADWAY AND AREA LUMINAIRE
(9) 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: 9048 lumens
Efficiency: N/A
Efficacy: 50.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

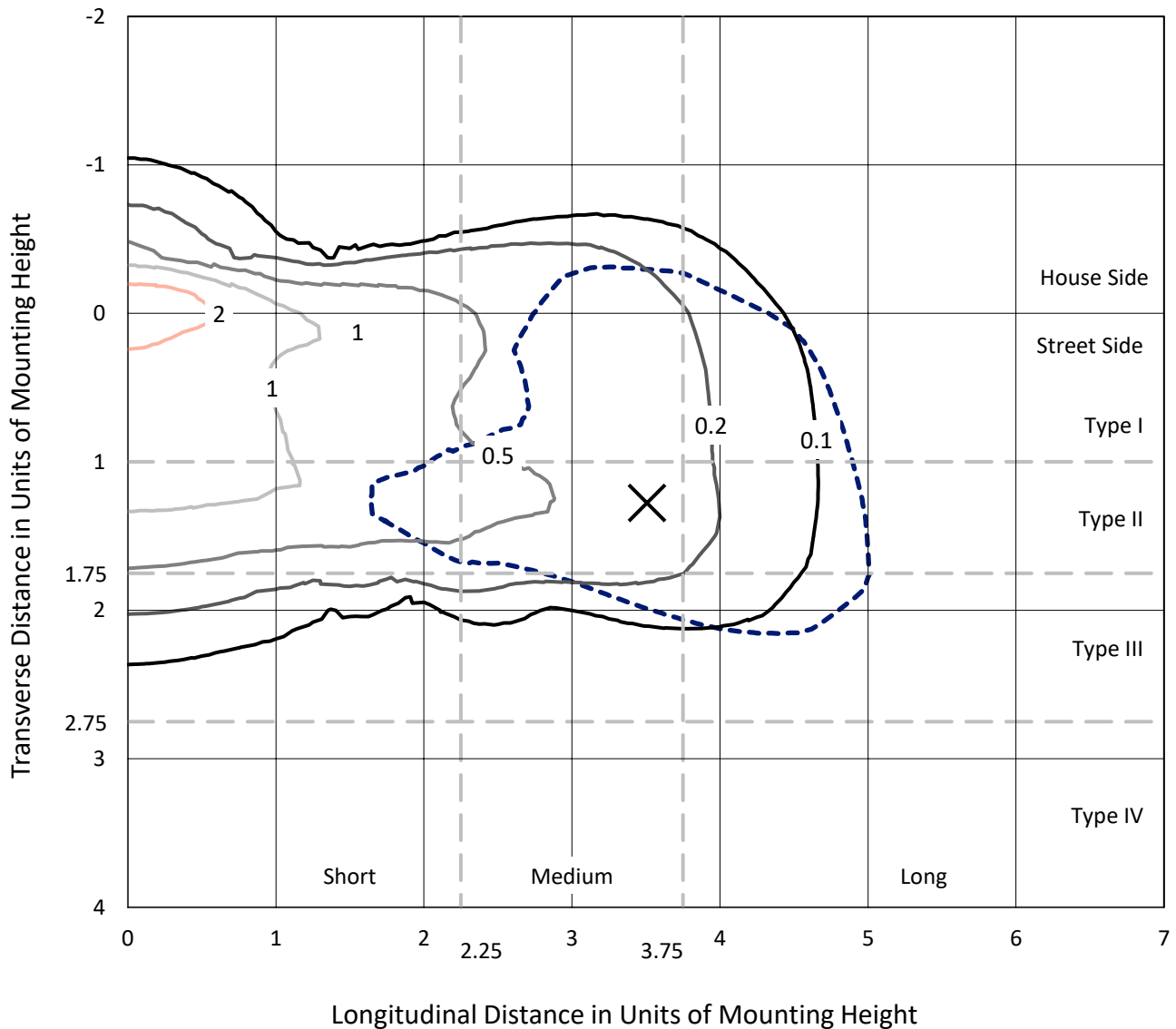
Input Watts (W): 178.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P459659
 CATALOG NUMBER: GAN-SA9A-AMB-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

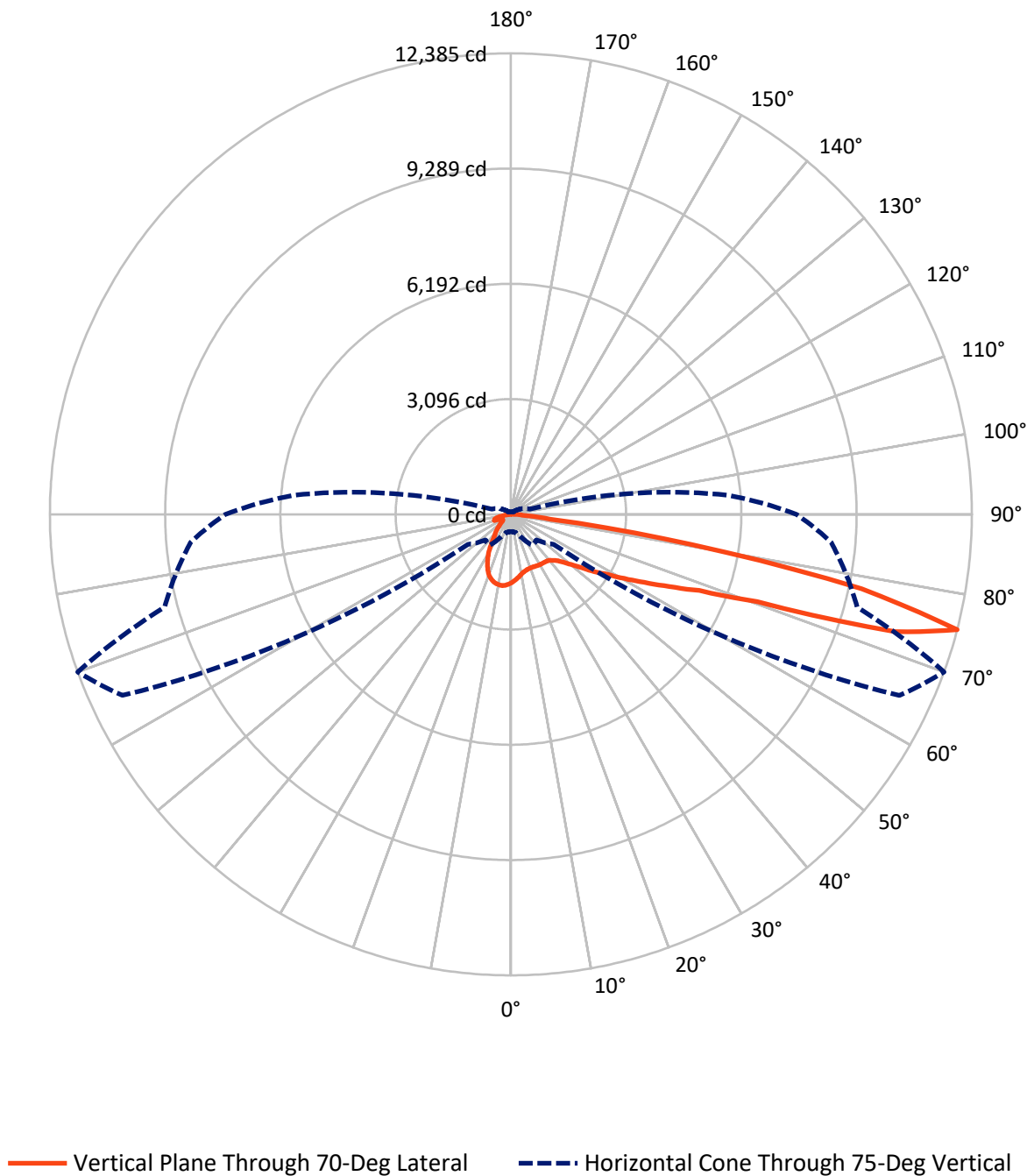
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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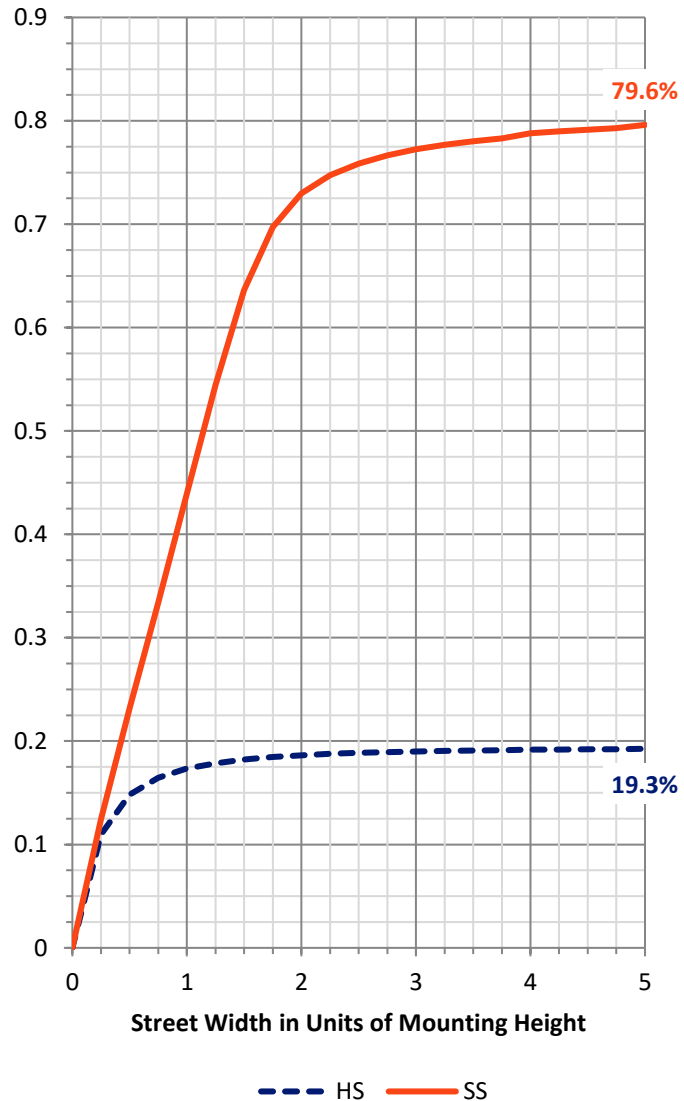
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1765.5	0.0	1765.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	7282.5	0.0	7282.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	9048.0	0.0	9048.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.6	1.8
10°-20°	404.9	4.5
20°-30°	544.6	6.0
30°-40°	716.3	7.9
40°-50°	1021.8	11.3
50°-60°	1591.6	17.6
60°-70°	2077.9	23.0
70°-80°	2208.2	24.4
80°-90°	316.3	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°	9048.0	100.0
0°-180°	9048.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459659

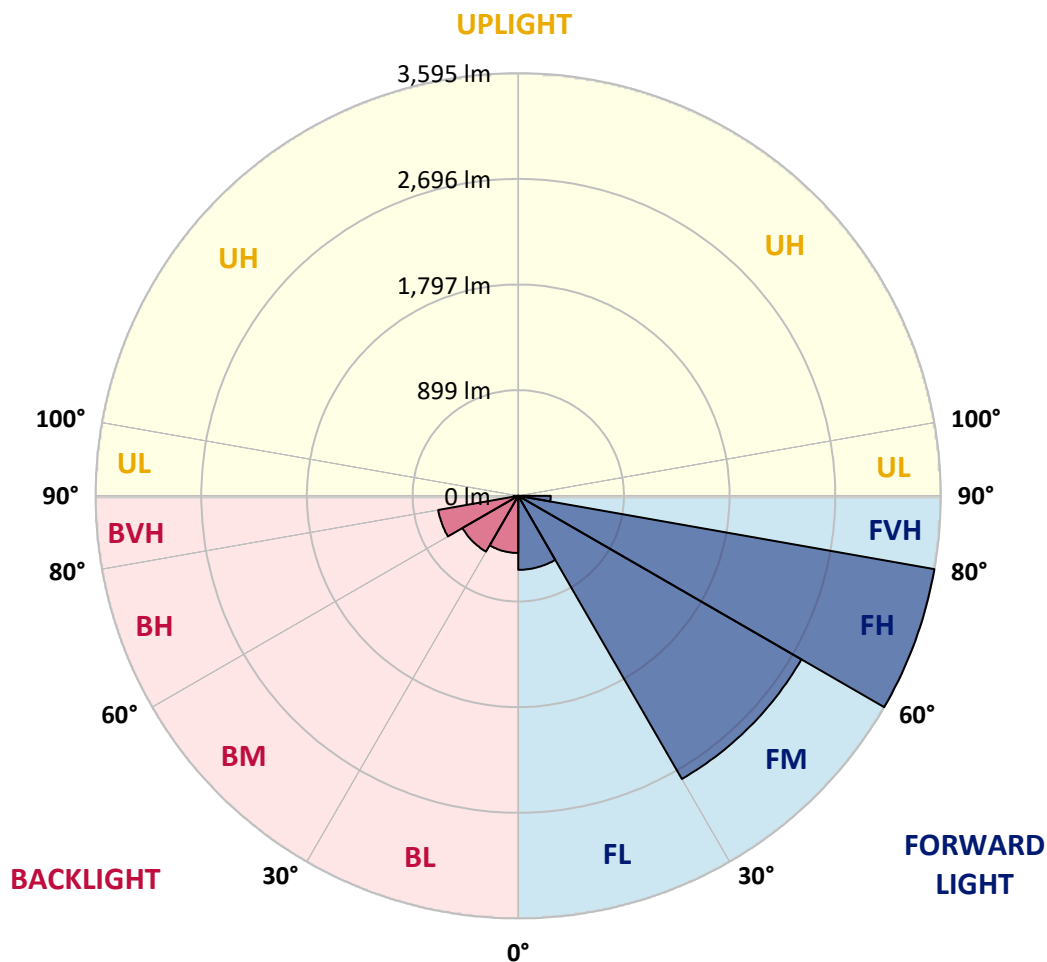
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	629.5	7.0			
FM	(30°-60°)	2781.6	30.7			
FH	(60°-80°)	3595.0	39.7			G2/5000
FVH	(80°-90°)	276.4	3.1			G3/500
BL	(0°-30°)	486.5	5.4	B1/500		
BM	(30°-60°)	548.1	6.1	B1/1000		
BH	(60°-80°)	691.1	7.6	B2/1000		G2/1000
BVH	(80°-90°)	39.8	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-G3

Type III Medium



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1840.7	1840.7	1840.7	1840.7	1840.7	1840.7	1840.7	1840.7	1840.7	1840.7	1840.7
2.5°	1724.4	1724.4	1736.0	1736.0	1751.5	1755.4	1770.9	1778.7	1786.4	1798.0	1821.3
5°	1600.4	1596.5	1608.2	1627.5	1646.9	1666.3	1693.4	1720.5	1732.2	1751.5	1790.3
7.5°	1507.4	1507.4	1515.2	1526.8	1553.9	1577.2	1619.8	1650.8	1677.9	1705.0	1759.3
10°	1437.7	1437.7	1445.4	1457.0	1484.2	1503.5	1542.3	1596.5	1619.8	1658.5	1728.3
12.5°	1371.8	1379.5	1383.4	1398.9	1418.3	1445.4	1484.2	1542.3	1581.0	1627.5	1720.5
15°	1340.8	1340.8	1344.7	1356.3	1375.7	1402.8	1449.3	1511.3	1553.9	1608.2	1724.4
17.5°	1333.0	1329.2	1325.3	1329.2	1348.5	1375.7	1422.2	1491.9	1538.4	1600.4	1743.8
20°	1336.9	1333.0	1329.2	1321.4	1329.2	1356.3	1414.4	1484.2	1530.7	1596.5	1774.8
22.5°	1356.3	1356.3	1348.5	1333.0	1329.2	1348.5	1410.5	1484.2	1534.5	1600.4	1805.8
25°	1410.5	1406.7	1398.9	1367.9	1344.7	1352.4	1410.5	1491.9	1542.3	1608.2	1832.9
27.5°	1468.7	1468.7	1460.9	1433.8	1387.3	1367.9	1418.3	1503.5	1553.9	1615.9	1863.9
30°	1561.7	1557.8	1550.0	1519.0	1460.9	1398.9	1433.8	1515.2	1561.7	1619.8	1891.1
32.5°	1674.0	1674.0	1677.9	1639.2	1553.9	1453.2	1449.3	1522.9	1565.5	1623.7	1922.1
35°	1805.8	1809.7	1821.3	1790.3	1685.7	1534.5	1488.0	1542.3	1573.3	1627.5	1953.1
37.5°	1902.7	1906.6	1949.2	1956.9	1832.9	1643.0	1550.0	1581.0	1588.8	1635.3	1984.1
40°	2015.1	2015.1	2077.1	2123.6	2042.2	1794.2	1635.3	1627.5	1623.7	1666.3	2022.8
42.5°	2139.1	2154.6	2208.8	2286.3	2251.4	1968.6	1755.4	1708.9	1689.5	1720.5	2084.8
45°	2255.3	2263.1	2363.8	2452.9	2456.8	2204.9	1925.9	1836.8	1782.5	1817.4	2197.2
47.5°	2383.2	2394.8	2518.8	2662.2	2689.3	2456.8	2119.7	1995.7	1925.9	1960.8	2359.9
50°	2569.2	2588.6	2693.2	2867.6	2941.2	2755.2	2367.7	2216.6	2139.1	2154.6	2588.6
52.5°	2867.6	2863.7	2914.1	3084.6	3262.8	3084.6	2700.9	2487.8	2383.2	2406.4	2883.1
55°	3045.8	3042.0	3111.7	3297.7	3623.2	3499.2	3069.1	2809.5	2712.6	2700.9	3224.1
57.5°	2887.0	2894.7	3014.8	3305.5	3867.4	4146.4	3472.1	3200.8	3034.2	3053.6	3638.7
60°	2414.2	2367.7	2503.3	2898.6	3793.7	4871.0	4045.6	3673.6	3499.2	3464.3	4161.9
62.5°	1627.5	1643.0	1732.2	1987.9	3247.3	5068.6	5510.4	4262.6	4022.4	3960.4	4654.0
65°	1224.5	1220.7	1224.5	1267.2	1759.3	4882.6	7025.6	5045.4	4669.5	4464.1	5173.3
67.5°	1023.0	1011.4	1007.5	1104.4	1096.7	3073.0	7529.3	6824.1	5463.9	5029.9	5677.0
70°	868.0	844.8	837.0	992.0	1019.2	1088.9	7471.2	10133.4	7017.8	5820.4	6343.5
72.5°	658.8	654.9	670.4	844.8	1003.7	953.3	4499.0	11582.7	10792.2	7347.2	7719.2
75°	468.9	465.0	507.6	685.9	1019.2	968.8	1406.7	11512.9	12384.8	9629.6	8637.6
77.5°	310.0	306.1	344.9	492.1	957.2	972.7	918.4	8335.3	9629.6	9021.2	7079.8
80°	205.4	197.6	224.8	341.0	767.3	1042.4	899.0	4127.0	4909.8	4177.4	2352.2
82.5°	120.1	116.3	143.4	236.4	503.8	1030.8	906.8	1298.2	1061.8	542.5	294.5
85°	62.0	65.9	93.0	143.4	325.5	910.6	968.8	666.5	310.0	220.9	147.3
87.5°	19.4	27.1	50.4	77.5	182.1	627.8	860.3	515.4	224.8	143.4	81.4
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°	1840.7	1840.7	1840.7	1840.7	1840.7	1840.7	1840.7	1840.7	1840.7	1840.7	1840.7
2.5°	1829.0	1840.7	1863.9	1891.1	1918.2	1929.8	1945.3	1949.2	1956.9	1960.8	1956.9
5°	1817.4	1844.5	1894.9	1929.8	1953.1	1949.2	1945.3	1933.7	1929.8	1925.9	1918.2
7.5°	1794.2	1840.7	1914.3	1945.3	1929.8	1883.3	1844.5	1798.0	1782.5	1763.2	1759.3
10°	1782.5	1848.4	1922.1	1918.2	1856.2	1767.0	1689.5	1615.9	1565.5	1534.5	1519.0
12.5°	1794.2	1875.6	1937.6	1867.8	1759.3	1623.7	1488.0	1375.7	1263.3	1224.5	1205.2
15°	1829.0	1918.2	1937.6	1801.9	1635.3	1441.5	1236.2	1057.9	926.1	860.3	848.6
17.5°	1871.7	1953.1	1910.4	1720.5	1491.9	1212.9	968.8	740.1	639.4	612.3	608.4
20°	1922.1	1995.7	1867.8	1619.8	1305.9	976.5	658.8	542.5	530.9	534.8	538.6
22.5°	1964.7	2015.1	1798.0	1484.2	1085.0	654.9	461.1	437.9	461.1	492.1	499.9
25°	1995.7	2003.4	1720.5	1313.7	833.1	418.5	364.3	360.4	395.3	449.5	465.0
27.5°	2015.1	1964.7	1615.9	1131.5	511.5	325.5	298.4	310.0	337.1	375.9	383.6
30°	2026.7	1925.9	1515.2	941.7	325.5	275.1	271.3	279.0	290.6	310.0	313.9
32.5°	2030.6	1887.2	1406.7	701.4	275.1	251.9	251.9	259.6	263.5	275.1	275.1
35°	2022.8	1840.7	1298.2	441.8	251.9	244.1	240.3	240.3	240.3	244.1	244.1
37.5°	2003.4	1794.2	1170.3	294.5	240.3	232.5	228.6	228.6	224.8	224.8	224.8
40°	1991.8	1755.4	1050.2	255.8	228.6	224.8	220.9	213.1	209.3	209.3	209.3
42.5°	2003.4	1736.0	902.9	244.1	220.9	217.0	209.3	201.5	201.5	201.5	201.5
45°	2053.8	1739.9	716.9	236.4	217.0	209.3	197.6	189.9	189.9	193.8	193.8
47.5°	2150.7	1774.8	554.1	228.6	209.3	201.5	186.0	182.1	182.1	182.1	182.1
50°	2297.9	1844.5	437.9	220.9	205.4	193.8	182.1	174.4	174.4	174.4	170.5
52.5°	2507.2	1972.4	344.9	217.0	201.5	189.9	174.4	166.6	162.8	162.8	158.9
55°	2797.8	2173.9	317.8	217.0	193.8	182.1	166.6	155.0	151.1	147.3	147.3
57.5°	3185.3	2460.7	313.9	213.1	182.1	170.5	155.0	143.4	139.5	139.5	135.6
60°	3658.1	2844.3	317.8	205.4	174.4	158.9	143.4	135.6	127.9	127.9	127.9
62.5°	4189.0	3262.8	317.8	201.5	170.5	151.1	135.6	124.0	120.1	116.3	116.3
65°	4727.6	3774.4	341.0	197.6	162.8	135.6	124.0	116.3	108.5	108.5	108.5
67.5°	5320.5	4398.2	465.0	197.6	155.0	124.0	112.4	104.6	100.8	100.8	100.8
70°	6087.8	5429.0	705.3	248.0	158.9	116.3	100.8	96.9	93.0	93.0	93.0
72.5°	7665.0	6618.7	561.9	344.9	186.0	104.6	89.1	85.3	85.3	81.4	81.4
75°	7672.7	5870.8	534.8	368.1	201.5	96.9	81.4	77.5	73.6	73.6	73.6
77.5°	5673.2	3832.5	457.3	286.8	174.4	85.3	73.6	69.8	65.9	65.9	65.9
80°	1674.0	988.2	286.8	209.3	112.4	69.8	62.0	58.1	54.3	54.3	54.3
82.5°	286.8	259.6	131.8	112.4	69.8	54.3	50.4	46.5	42.6	42.6	42.6
85°	139.5	135.6	73.6	62.0	46.5	38.8	38.8	34.9	31.0	31.0	31.0
87.5°	85.3	77.5	54.3	34.9	27.1	19.4	23.3	19.4	19.4	15.5	15.5
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)