

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: P192820

Luminaire Tested: **GAN-AF-02-LED-U-SL2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-SL2-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA 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: 9322 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 85
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

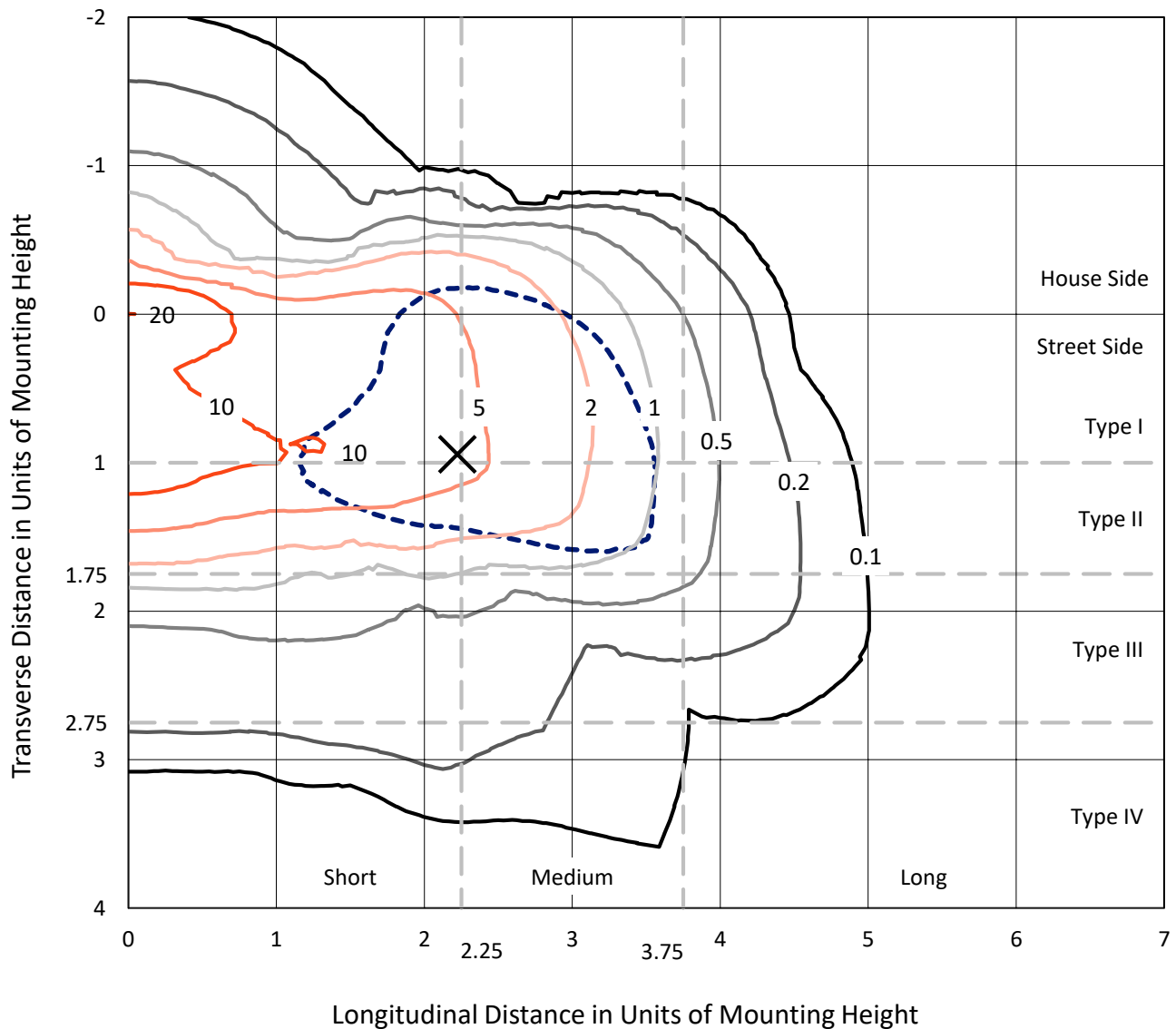


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

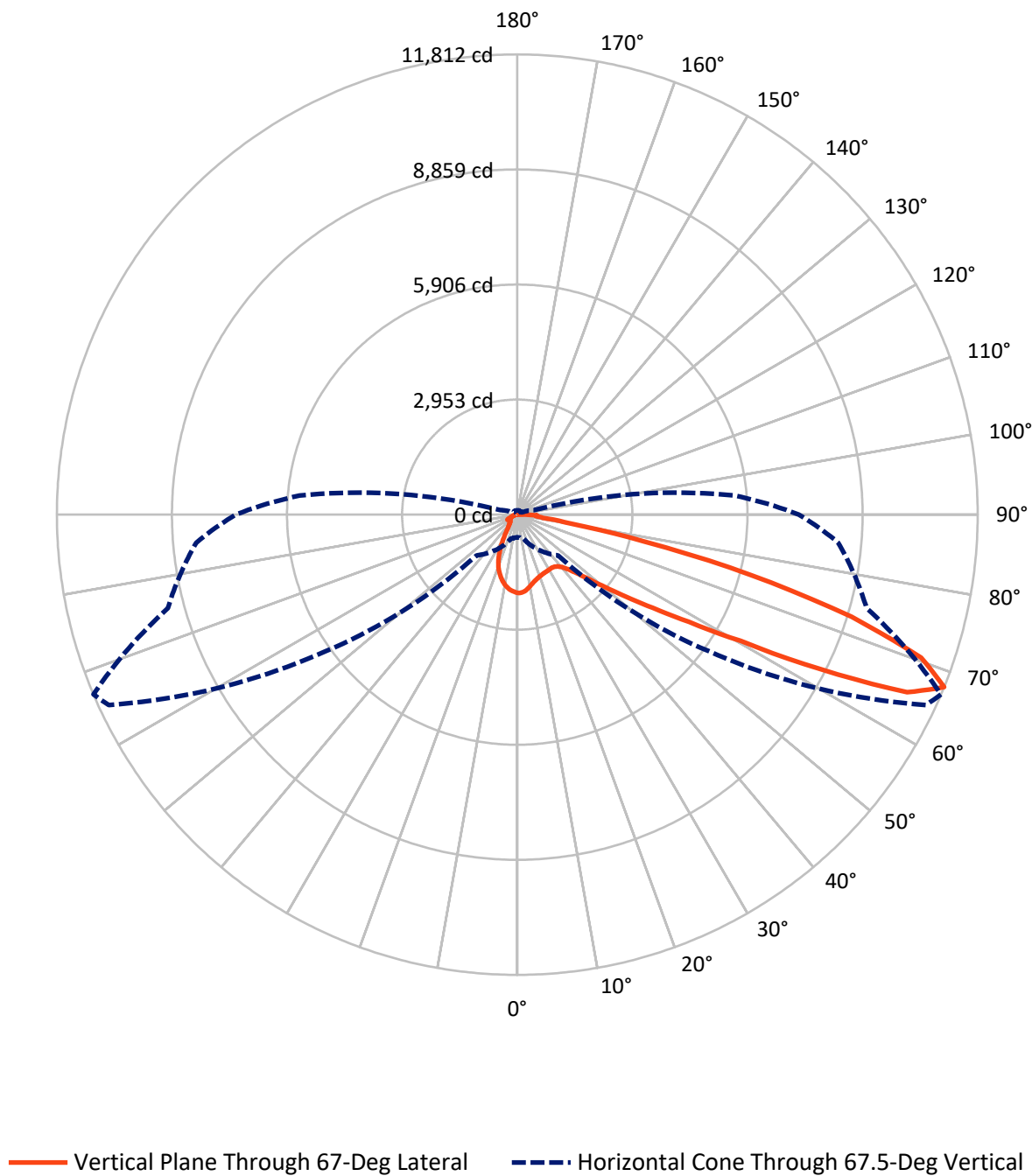


Based on 10 foot mounting height. Maximum calculated value = 20.1 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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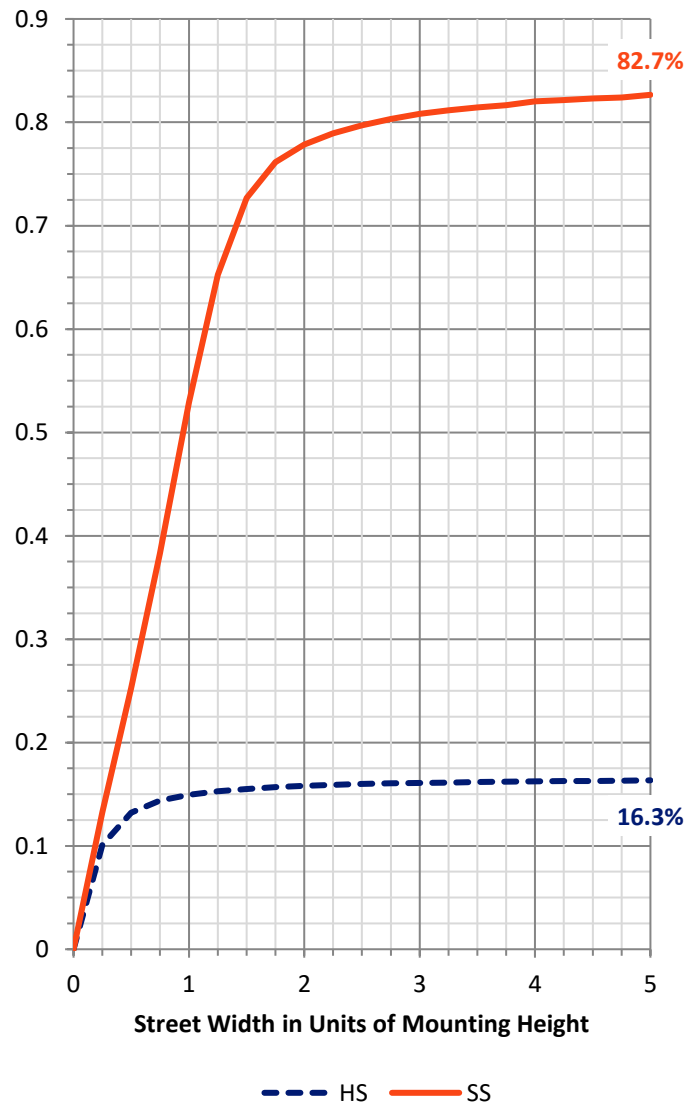
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1544.5	0.0	1544.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	7777.5	0.0	7777.5
	% Fixture	83.4	0.0	83.4
Total	Lumens	9322.0	0.0	9322.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.5	1.8
10°-20°	396.9	4.3
20°-30°	538.0	5.8
30°-40°	764.9	8.2
40°-50°	1279.7	13.7
50°-60°	2024.4	21.7
60°-70°	2579.0	27.7
70°-80°	1350.8	14.5
80°-90°	216.6	2.3
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°	9322.0	100.0
0°-180°	9322.0	100.0

Coefficient of Utilization



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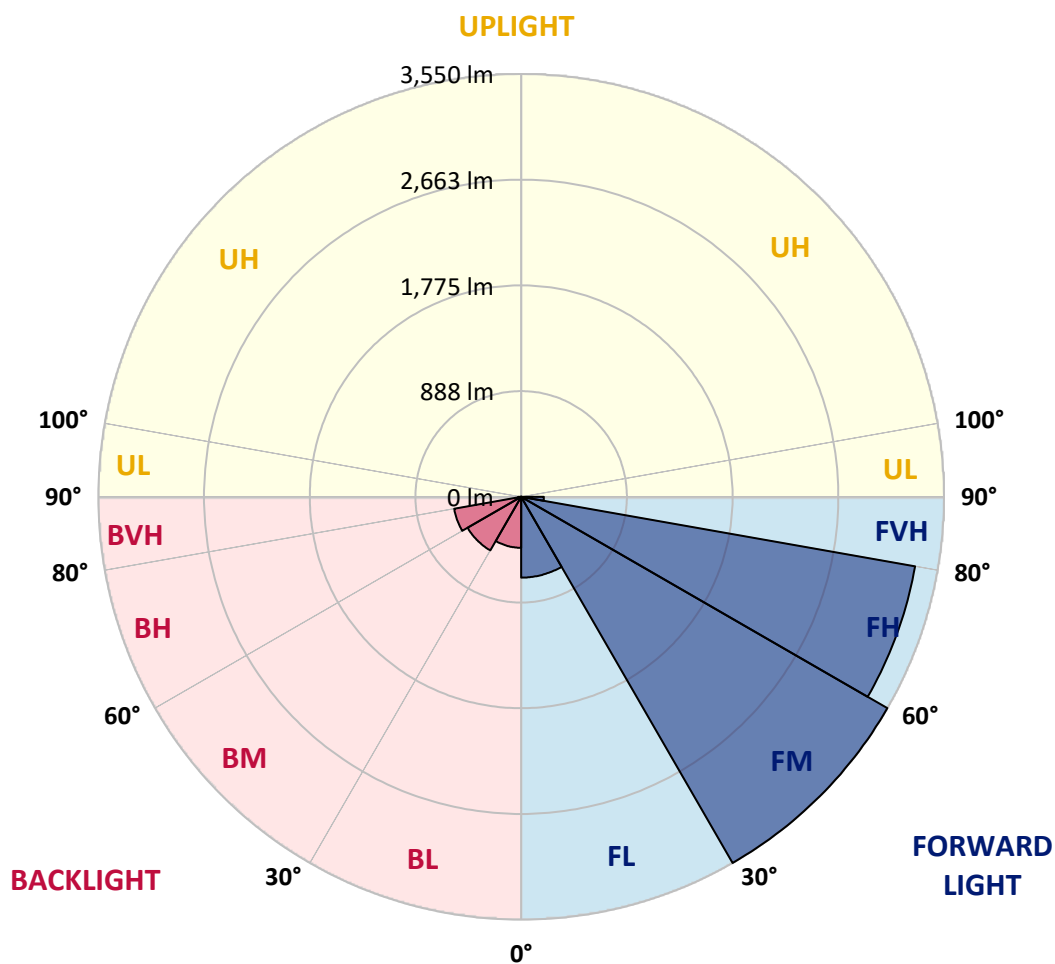
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	678.4	7.3			
FM	(30°-60°)	3550.0	38.1			
FH	(60°-80°)	3358.5	36.0			G2/5000
FVH	(80°-90°)	190.5	2.0			G2/225
BL	(0°-30°)	428.1	4.6	B1/500		
BM	(30°-60°)	519.0	5.6	B1/1000		
BH	(60°-80°)	571.3	6.1	B2/1000		G2/1000
BVH	(80°-90°)	26.1	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7
2.5°	1928.0	1931.1	1941.3	1947.8	1976.7	1989.2	1998.0	2006.5	2007.9	2012.1	2007.9
5°	1725.7	1732.7	1751.4	1772.6	1828.7	1872.8	1919.2	1967.5	1976.3	2007.5	2016.3
7.5°	1569.0	1567.1	1582.7	1608.1	1665.5	1726.7	1808.0	1904.1	1923.0	1993.2	2027.3
10°	1454.5	1453.1	1469.6	1495.9	1550.6	1608.6	1700.4	1832.0	1858.6	1970.7	2037.9
12.5°	1369.9	1370.3	1386.9	1415.9	1471.5	1529.8	1623.1	1762.1	1796.0	1944.5	2048.9
15°	1313.9	1317.5	1330.9	1361.6	1415.9	1474.2	1565.8	1709.6	1747.8	1923.8	2061.2
17.5°	1294.9	1301.0	1305.5	1328.0	1374.5	1432.9	1522.5	1671.0	1711.4	1909.7	2072.3
20°	1312.4	1319.3	1310.6	1318.4	1347.8	1399.3	1488.5	1640.6	1682.0	1893.5	2073.7
22.5°	1387.4	1393.8	1368.0	1345.5	1343.7	1374.9	1460.5	1616.8	1659.5	1881.6	2074.2
25°	1519.4	1523.4	1480.3	1427.8	1376.7	1366.2	1440.7	1600.2	1645.8	1870.9	2065.4
27.5°	1681.2	1684.3	1634.7	1557.5	1455.0	1386.9	1433.8	1590.6	1637.9	1861.8	2050.7
30°	1877.8	1893.0	1826.4	1728.9	1579.6	1448.0	1447.5	1585.5	1629.2	1846.2	2021.8
32.5°	2079.2	2085.6	2039.7	1940.9	1747.3	1555.7	1486.3	1589.1	1626.9	1827.4	1985.0
35°	2283.3	2291.6	2261.7	2182.2	1976.7	1713.3	1561.7	1610.8	1641.2	1821.0	1959.2
37.5°	2547.7	2558.8	2517.4	2425.3	2255.7	1927.2	1687.1	1665.0	1684.8	1839.3	1951.5
40°	2965.6	2960.5	2839.5	2702.6	2561.0	2200.6	1866.3	1757.0	1768.5	1898.6	1975.3
42.5°	3451.9	3439.5	3231.3	3016.1	2896.6	2531.5	2103.6	1916.5	1914.2	2015.3	2059.4
45°	3839.9	3829.7	3642.1	3376.9	3281.4	2908.5	2410.3	2154.1	2137.1	2200.6	2214.8
47.5°	4049.9	4050.5	3942.4	3725.8	3723.5	3387.6	2804.1	2498.0	2468.6	2498.4	2483.4
50°	3976.4	3986.1	3974.6	3905.6	4127.2	4015.5	3318.5	2977.6	2918.2	2947.6	2889.3
52.5°	3620.7	3633.0	3701.0	3806.8	4296.8	4774.4	4074.3	3573.3	3504.3	3493.7	3428.9
55°	2989.9	3005.0	3143.9	3431.2	4155.6	5284.3	5266.9	4332.6	4222.8	4123.0	4095.5
57.5°	2060.8	2086.1	2309.5	2736.2	3699.2	5438.3	6686.7	5415.3	5191.9	4843.5	4849.8
60°	1161.7	1191.0	1454.5	1842.0	2778.0	5270.8	7767.1	7055.0	6583.4	5687.0	5734.8
62.5°	738.7	770.5	970.4	1279.8	1666.9	4370.0	8209.8	9334.7	8735.8	6726.8	6773.7
65°	598.0	611.9	706.2	1056.4	1210.4	2632.7	7873.8	11212.6	10989.2	8046.6	7827.8
67.5°	583.8	588.5	637.2	886.7	1160.8	1479.8	6280.4	11563.8	11811.6	9279.1	8266.8
70°	576.9	593.1	718.1	846.3	1111.6	1248.1	3774.2	10601.2	10992.3	9601.2	7682.6
72.5°	279.9	279.0	361.3	765.4	1252.2	1294.5	1939.1	8577.6	8970.1	8318.4	6313.1
75°	225.7	206.4	197.2	280.5	1203.9	1336.8	1235.7	5902.0	6186.2	5577.1	3880.8
77.5°	214.2	191.2	175.2	175.6	508.9	1417.7	1046.7	3266.7	3349.4	2519.2	1063.3
80°	177.4	156.3	144.8	163.3	246.4	1350.1	1131.8	1478.4	1356.6	618.7	354.0
82.5°	123.3	112.2	108.9	137.0	197.2	962.1	1316.1	794.4	666.2	309.9	218.4
85°	78.5	67.0	74.6	99.8	153.5	444.0	1355.7	619.2	492.3	196.7	123.3
87.5°	36.3	29.4	36.8	55.1	100.2	153.1	1290.0	695.6	507.1	103.9	77.7
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°	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7
2.5°	2011.7	2002.9	1996.0	1983.2	1968.9	1955.0	1942.7	1927.2	1922.4	1918.4	1924.8
5°	2018.1	2009.4	1984.0	1944.5	1900.9	1859.9	1819.0	1784.1	1762.5	1750.6	1757.4
7.5°	2027.8	2015.3	1963.0	1890.3	1811.6	1740.0	1665.9	1606.6	1563.0	1542.3	1548.3
10°	2036.5	2012.5	1927.2	1818.1	1703.3	1596.5	1479.8	1383.2	1311.5	1273.9	1283.0
12.5°	2040.2	2001.9	1877.0	1728.1	1570.4	1414.1	1242.1	1097.7	994.8	957.1	949.3
15°	2043.8	1990.0	1821.8	1625.4	1409.9	1188.7	948.0	775.0	689.5	670.8	666.6
17.5°	2044.8	1969.4	1759.3	1514.3	1221.8	920.7	648.1	538.3	538.7	569.1	572.7
20°	2035.1	1938.6	1683.4	1375.9	996.7	636.7	445.0	426.1	495.6	571.4	580.6
22.5°	2013.0	1897.7	1597.5	1214.5	738.7	419.2	344.2	365.0	454.6	547.5	558.1
25°	1985.0	1848.0	1495.9	1027.5	489.2	299.7	288.7	314.0	374.6	436.7	442.7
27.5°	1946.8	1789.1	1381.9	813.2	317.6	246.8	254.2	271.2	296.1	323.6	326.3
30°	1897.7	1718.8	1260.1	593.1	240.0	222.1	232.6	241.8	252.4	268.0	269.5
32.5°	1841.1	1651.2	1134.9	409.6	212.8	209.1	217.4	222.1	230.3	240.0	240.9
35°	1793.7	1586.9	1005.4	289.6	201.4	199.5	205.1	206.8	214.7	225.3	226.1
37.5°	1766.6	1534.4	871.6	233.5	193.5	190.7	194.1	194.1	205.1	220.7	223.0
40°	1768.5	1505.5	737.8	211.0	187.1	183.4	183.9	183.9	198.1	215.1	216.6
42.5°	1818.6	1512.9	619.2	202.2	182.0	177.9	175.6	177.0	188.9	200.0	200.9
45°	1936.3	1564.8	507.9	196.7	177.0	175.6	170.6	170.1	174.7	179.7	179.7
47.5°	2129.4	1667.3	432.5	193.1	172.8	172.4	166.4	160.4	159.9	161.8	161.8
50°	2443.4	1843.9	382.0	188.9	170.1	166.4	159.5	150.3	147.1	148.5	148.5
52.5°	2914.1	2158.8	362.7	183.4	164.1	158.1	150.3	141.2	138.3	138.9	138.9
55°	3531.5	2642.3	359.9	177.0	157.7	148.0	141.6	134.7	131.4	132.4	132.4
57.5°	4285.8	3311.2	409.1	166.8	148.9	137.8	134.3	129.6	127.3	128.7	128.3
60°	5202.9	4186.5	606.8	156.3	140.2	128.7	128.7	125.0	123.3	124.5	124.1
62.5°	6259.3	5191.9	853.2	148.5	131.0	121.4	123.3	121.4	119.5	120.4	119.9
65°	7196.2	5846.9	799.0	142.5	121.9	114.5	117.7	116.8	115.4	116.3	115.9
67.5°	7223.2	5604.2	448.6	136.0	113.1	107.6	112.2	111.7	110.8	111.7	111.2
70°	6446.4	4732.1	252.8	124.1	103.9	99.3	105.8	105.3	104.4	106.2	105.8
72.5°	5164.8	3434.0	184.7	109.4	94.7	90.5	97.9	97.5	97.5	100.2	98.9
75°	2972.0	1767.0	147.6	93.8	85.0	81.8	88.3	88.7	89.6	93.3	90.5
77.5°	847.2	550.7	120.4	79.5	73.1	71.7	78.1	79.1	79.5	83.7	80.0
80°	314.8	253.8	99.3	66.6	59.8	60.2	66.2	67.5	68.1	72.2	67.5
82.5°	200.9	167.3	80.5	51.5	46.9	46.4	53.7	55.6	55.6	56.0	53.3
85°	117.2	100.2	60.6	37.2	33.1	31.6	40.0	43.1	41.8	40.9	39.2
87.5°	78.5	69.0	37.2	20.6	17.9	17.1	23.5	25.7	24.8	23.5	22.1
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)