

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: P193600

Luminaire Tested: **GAN-AF-02-LED-U-SL2-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9030 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 129
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

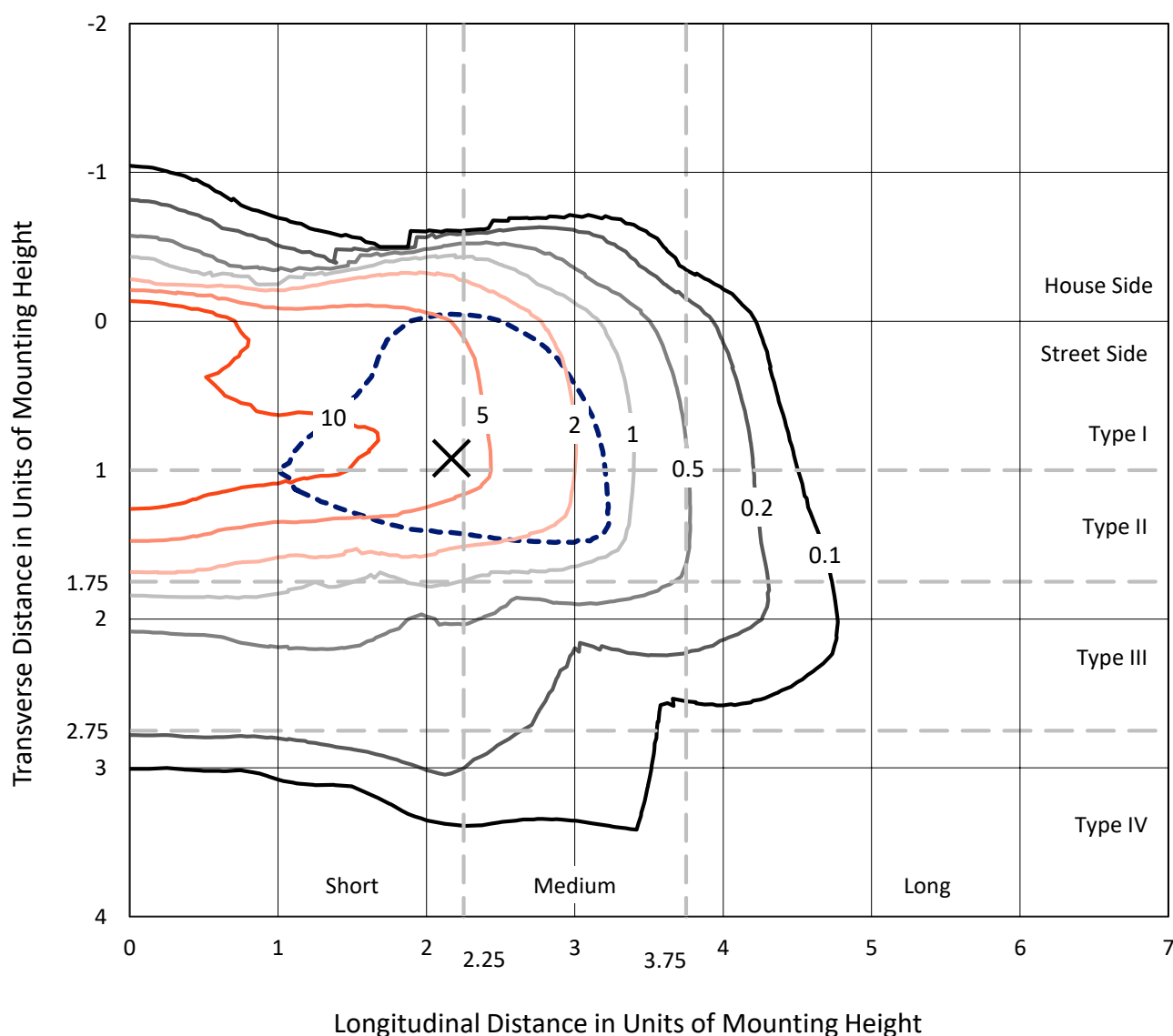


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

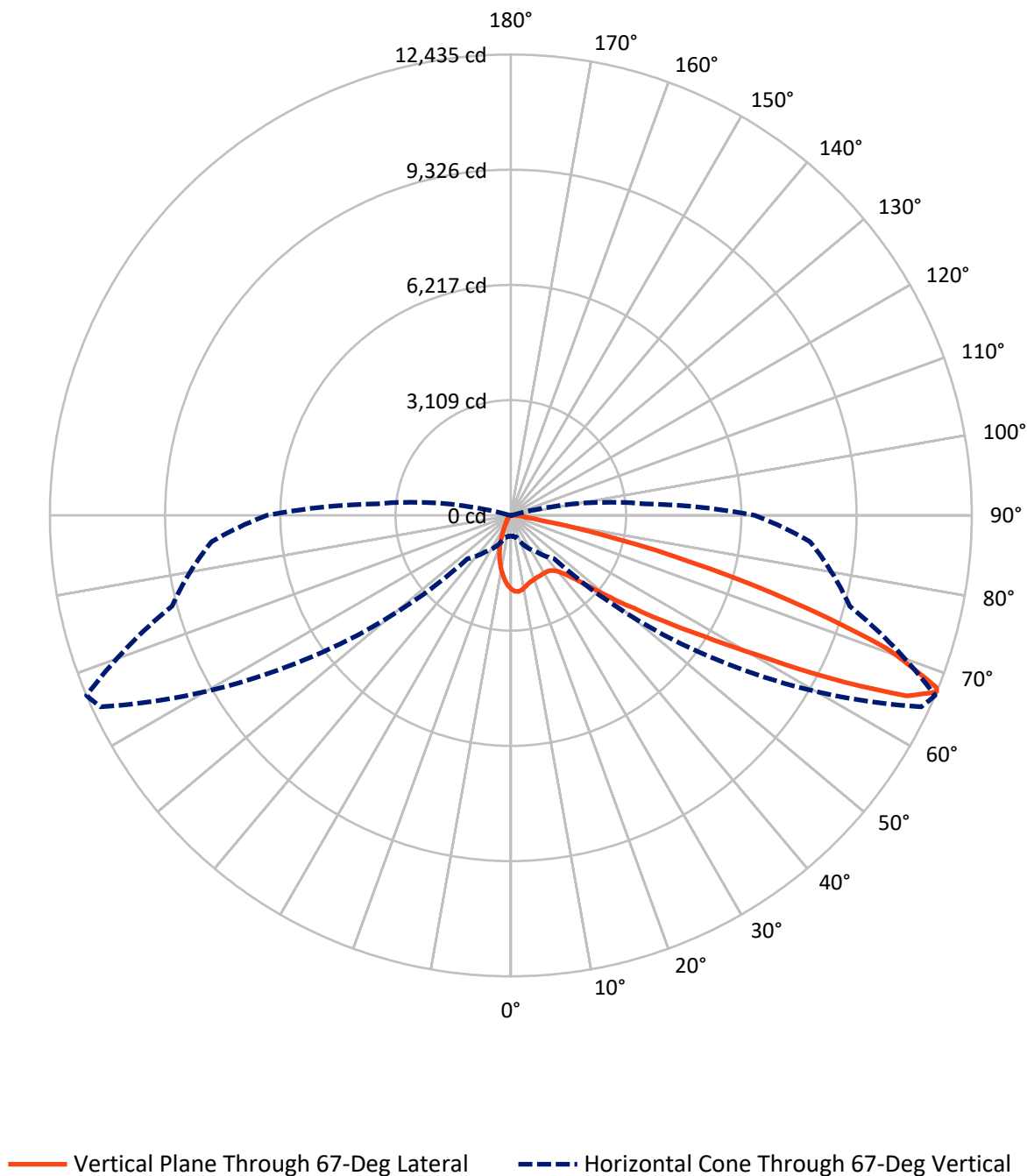


Based on 10 foot mounting height. Maximum calculated value = 19.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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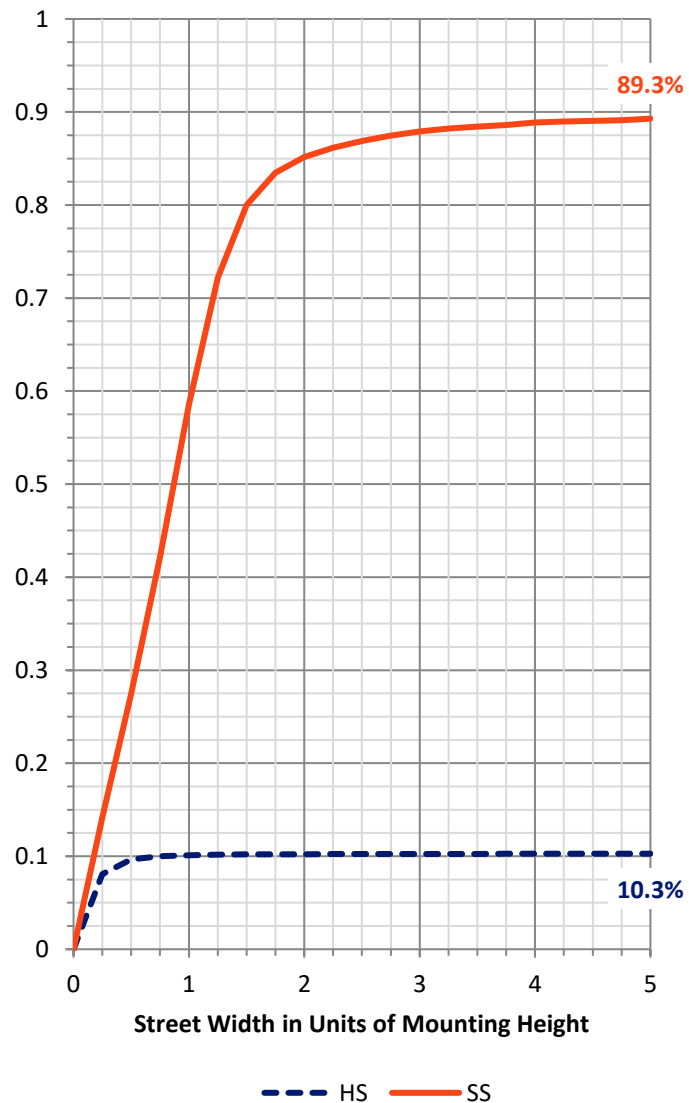
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	937.6	0.0	937.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	8092.4	0.0	8092.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	9030.0	0.0	9030.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.0	1.8
10°-20°	344.9	3.8
20°-30°	501.4	5.6
30°-40°	782.3	8.7
40°-50°	1385.7	15.3
50°-60°	2192.8	24.3
60°-70°	2511.5	27.8
70°-80°	1041.8	11.5
80°-90°	107.6	1.2
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°	9030.0	100.0
0°-180°	9030.0	100.0

Coefficient of Utilization



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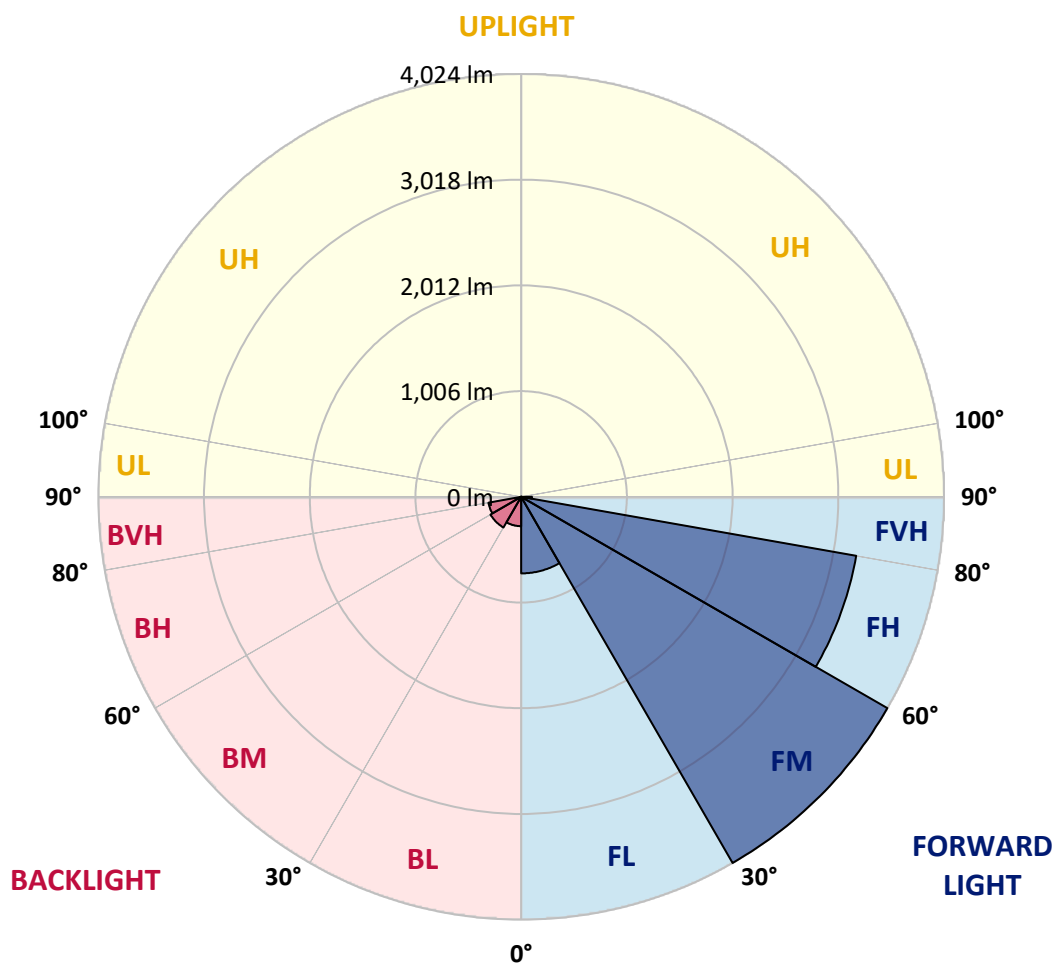
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	728.6	8.1			
FM	(30°-60°)	4023.8	44.6			
FH	(60°-80°)	3237.3	35.9			G2/5000
FVH	(80°-90°)	102.8	1.1			G2/225
BL	(0°-30°)	279.8	3.1	B1/500		
BM	(30°-60°)	337.0	3.7	B1/1000		
BH	(60°-80°)	316.0	3.5	B1/500		G1/500
BVH	(80°-90°)	4.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4
2.5°	2058.9	2063.1	2062.6	2065.7	2073.1	2073.6	2066.2	2052.0	2048.9	2030.4	1998.3
5°	1898.7	1910.9	1918.2	1948.3	1982.0	2022.5	2053.1	2064.1	2062.6	2049.4	2000.9
7.5°	1716.0	1728.1	1736.5	1771.8	1816.6	1886.1	1965.6	2031.0	2036.7	2051.0	1998.8
10°	1594.3	1596.4	1608.0	1641.7	1688.6	1759.7	1854.5	1968.8	1986.2	2038.3	1993.6
12.5°	1494.2	1495.8	1511.1	1547.4	1597.5	1669.1	1768.7	1900.9	1927.7	2022.5	1992.5
15°	1423.1	1428.9	1442.6	1480.6	1533.7	1604.9	1707.0	1850.8	1882.9	2016.7	2002.0
17.5°	1399.4	1405.8	1410.0	1437.4	1485.8	1555.3	1660.2	1818.2	1854.5	2019.9	2020.4
20°	1424.2	1428.9	1419.5	1426.3	1456.3	1518.5	1620.7	1790.2	1833.4	2023.6	2044.1
22.5°	1516.4	1518.5	1492.7	1462.6	1457.4	1491.6	1589.6	1768.1	1814.5	2033.6	2072.0
25°	1674.4	1670.7	1628.6	1563.8	1502.7	1486.9	1571.1	1754.4	1805.0	2044.1	2101.0
27.5°	1865.0	1870.3	1812.4	1718.1	1601.7	1518.5	1568.5	1748.6	1800.8	2051.5	2126.3
30°	2096.8	2104.2	2037.8	1919.3	1752.3	1596.4	1592.7	1747.6	1798.1	2046.8	2128.4
32.5°	2333.3	2342.2	2290.1	2167.9	1953.5	1727.0	1647.5	1759.2	1803.4	2030.4	2116.3
35°	2580.8	2593.5	2558.7	2453.9	2226.4	1915.6	1743.9	1794.5	1828.2	2028.8	2104.2
37.5°	2922.7	2934.2	2868.9	2757.8	2556.6	2168.4	1898.7	1860.8	1886.6	2054.1	2107.3
40°	3433.0	3431.4	3262.9	3092.8	2919.5	2489.7	2116.3	1980.9	1994.1	2130.5	2146.3
42.5°	3989.2	3986.6	3737.5	3478.8	3322.4	2885.3	2402.3	2188.4	2179.5	2271.1	2247.4
45°	4418.0	4417.4	4214.1	3922.9	3807.5	3339.3	2772.0	2477.1	2463.4	2499.7	2433.9
47.5°	4600.7	4603.9	4501.7	4296.8	4345.3	3953.4	3238.1	2895.3	2874.7	2860.0	2759.9
50°	4458.5	4464.8	4473.3	4433.2	4739.8	4778.7	3863.3	3484.6	3474.6	3408.8	3252.4
52.5°	3994.0	4026.1	4125.1	4252.0	4876.7	5570.9	4843.5	4216.8	4163.0	4093.0	3920.7
55°	3211.3	3246.6	3434.6	3742.7	4672.9	6091.3	6217.2	5160.6	5071.1	4862.0	4613.4
57.5°	2125.2	2180.0	2452.8	2844.7	4080.9	6175.0	7587.6	6470.5	6158.7	5586.2	5306.0
60°	1170.9	1223.5	1519.5	1874.5	2947.4	5761.0	8509.3	8175.9	7625.0	6395.7	6147.1
62.5°	721.1	749.5	968.1	1298.3	1767.6	4547.0	8700.0	10319.1	9681.3	7438.0	7163.1
65°	574.1	586.2	693.1	1061.3	1267.2	2704.6	8084.3	11952.9	11740.1	8700.0	8072.7
67°	557.2	562.0	612.6	911.2	1194.6	1658.0	6772.8	12218.9	12434.8	9463.7	8101.2
67.5°	560.9	566.2	614.1	869.6	1192.4	1523.7	6320.9	12114.1	12386.9	9524.3	7975.3
70°	540.9	557.2	703.1	869.1	1134.0	1266.2	3785.4	10496.1	10779.9	8849.6	6767.0
72.5°	191.7	192.8	303.9	703.1	1233.0	1279.9	1900.9	7694.5	7904.7	6769.7	4878.8
75°	113.8	96.9	101.1	200.1	1178.2	1243.0	1096.6	4916.7	4995.2	3879.1	2470.7
77.5°	78.5	68.5	70.6	88.5	448.7	1225.6	871.2	2564.0	2480.2	1360.5	526.2
80°	44.8	39.5	42.1	77.4	163.3	1143.5	821.7	1039.7	886.4	230.7	145.4
82.5°	23.7	20.0	24.2	63.7	113.8	712.6	823.2	502.5	398.2	78.0	99.0
85°	8.4	6.8	11.6	43.7	75.8	218.6	763.2	422.4	331.8	37.9	75.3
87.5°	1.6	1.6	4.7	17.9	30.5	66.9	451.4	250.7	168.0	22.6	51.6
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°	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4
2.5°	1985.1	1962.5	1931.9	1894.5	1850.3	1811.3	1782.3	1752.3	1746.0	1735.5	1733.9
5°	1972.0	1933.0	1857.1	1770.2	1677.5	1593.8	1525.8	1465.3	1438.4	1415.2	1412.6
7.5°	1952.5	1894.0	1765.0	1624.9	1480.0	1348.3	1236.7	1157.7	1085.0	1050.2	1045.0
10°	1929.8	1846.1	1661.2	1466.9	1266.7	1080.8	914.9	775.8	691.6	641.5	635.2
12.5°	1908.8	1799.2	1555.3	1303.1	1037.1	788.5	575.2	442.4	353.9	318.1	313.9
15°	1898.7	1761.3	1456.3	1135.6	796.9	501.9	314.4	243.3	214.4	205.9	205.4
17.5°	1897.7	1729.2	1359.4	962.3	558.3	291.8	204.9	187.0	181.2	179.1	179.1
20°	1897.2	1698.6	1262.5	782.7	354.5	194.4	170.7	166.4	162.2	159.6	159.6
22.5°	1903.0	1671.2	1161.4	599.4	223.3	157.5	150.1	145.9	140.6	136.9	136.4
25°	1908.8	1650.1	1058.1	426.6	161.7	136.9	129.6	123.8	116.4	111.7	111.1
27.5°	1909.8	1623.8	947.5	285.5	135.4	119.6	110.1	101.1	92.7	88.0	87.4
30°	1894.0	1579.6	824.8	192.8	119.6	103.8	91.1	81.6	73.7	70.1	70.1
32.5°	1862.9	1524.8	690.0	145.4	106.4	89.0	75.3	66.4	61.1	59.5	59.0
35°	1835.0	1465.8	551.5	123.2	95.3	75.3	61.6	55.8	52.7	52.1	51.6
37.5°	1818.7	1418.4	421.4	111.7	84.8	63.2	52.1	47.9	46.3	45.3	45.8
40°	1831.3	1378.9	311.3	102.2	74.3	52.7	44.2	42.1	40.6	40.0	40.0
42.5°	1886.6	1372.1	231.2	93.8	64.3	43.7	38.4	36.9	35.8	35.3	35.8
45°	2032.0	1414.2	179.6	85.9	54.2	36.9	32.7	32.1	31.6	31.6	31.6
47.5°	2250.6	1501.1	149.6	76.9	45.3	31.6	28.4	27.9	27.4	27.9	27.9
50°	2620.9	1660.2	133.8	67.9	37.4	26.9	24.2	24.2	24.2	24.2	24.8
52.5°	3183.9	1973.0	123.2	59.0	30.5	22.6	20.5	20.5	21.1	21.1	21.6
55°	3811.2	2388.1	113.8	50.0	25.8	19.0	16.9	17.4	17.9	18.4	18.4
57.5°	4491.7	2847.9	105.9	41.1	22.1	15.3	14.2	14.7	15.3	16.3	16.3
60°	5312.8	3345.6	94.3	32.1	18.4	12.1	11.1	12.1	13.7	14.7	15.3
62.5°	6214.5	3827.0	79.5	25.3	15.3	9.5	9.0	11.1	13.2	14.2	14.7
65°	6830.8	3978.2	61.1	20.5	11.6	6.8	7.4	10.0	12.6	14.2	14.2
67°	6581.1	3606.8	50.0	17.4	9.5	5.3	6.8	10.0	12.6	13.7	14.2
67.5°	6407.8	3461.5	47.9	16.9	9.0	5.3	6.8	10.0	12.6	14.2	14.2
70°	5213.8	2600.3	40.0	12.6	7.4	4.7	5.8	9.5	12.1	13.7	13.7
72.5°	3622.6	1603.3	35.8	9.0	6.3	4.2	5.3	9.0	11.6	13.2	13.7
75°	1722.3	580.4	30.5	6.8	5.8	3.7	4.7	9.0	11.6	13.2	13.2
77.5°	351.3	134.8	24.8	5.8	4.7	3.7	4.2	8.4	11.1	12.6	12.6
80°	115.3	52.1	18.4	5.3	4.7	3.7	4.2	7.9	11.1	12.1	12.6
82.5°	83.2	26.3	12.1	5.3	4.7	3.7	3.7	7.9	10.5	12.1	12.1
85°	63.7	18.4	7.9	5.3	4.7	3.7	3.7	7.4	10.0	11.6	11.6
87.5°	42.1	7.4	6.3	5.3	4.7	3.7	3.7	7.4	9.5	11.1	11.6
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)