

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: P192780

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192780
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-SL2-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA 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: 7882 lumens
Efficiency: N/A
Efficacy: 92.7 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): 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

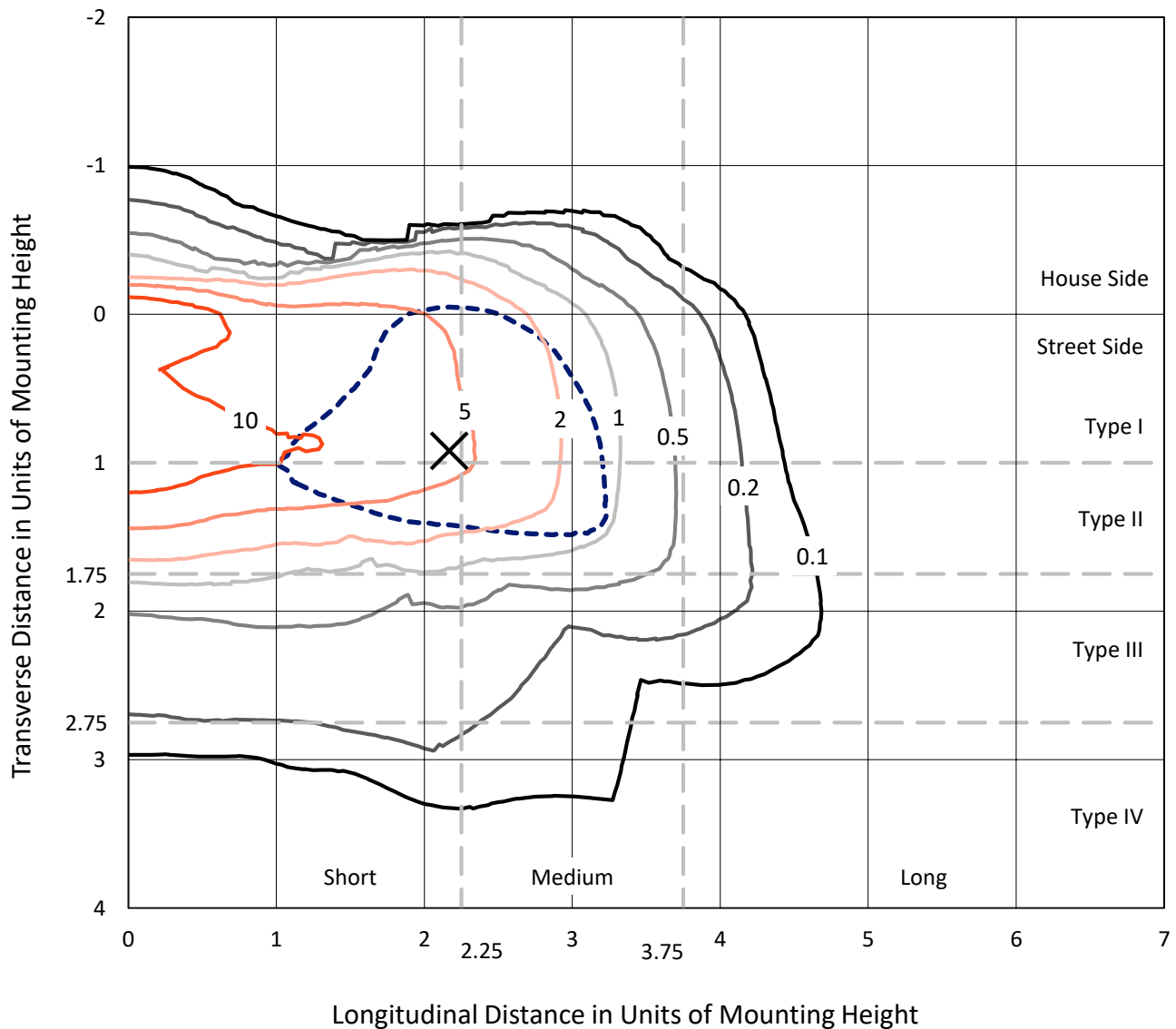


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

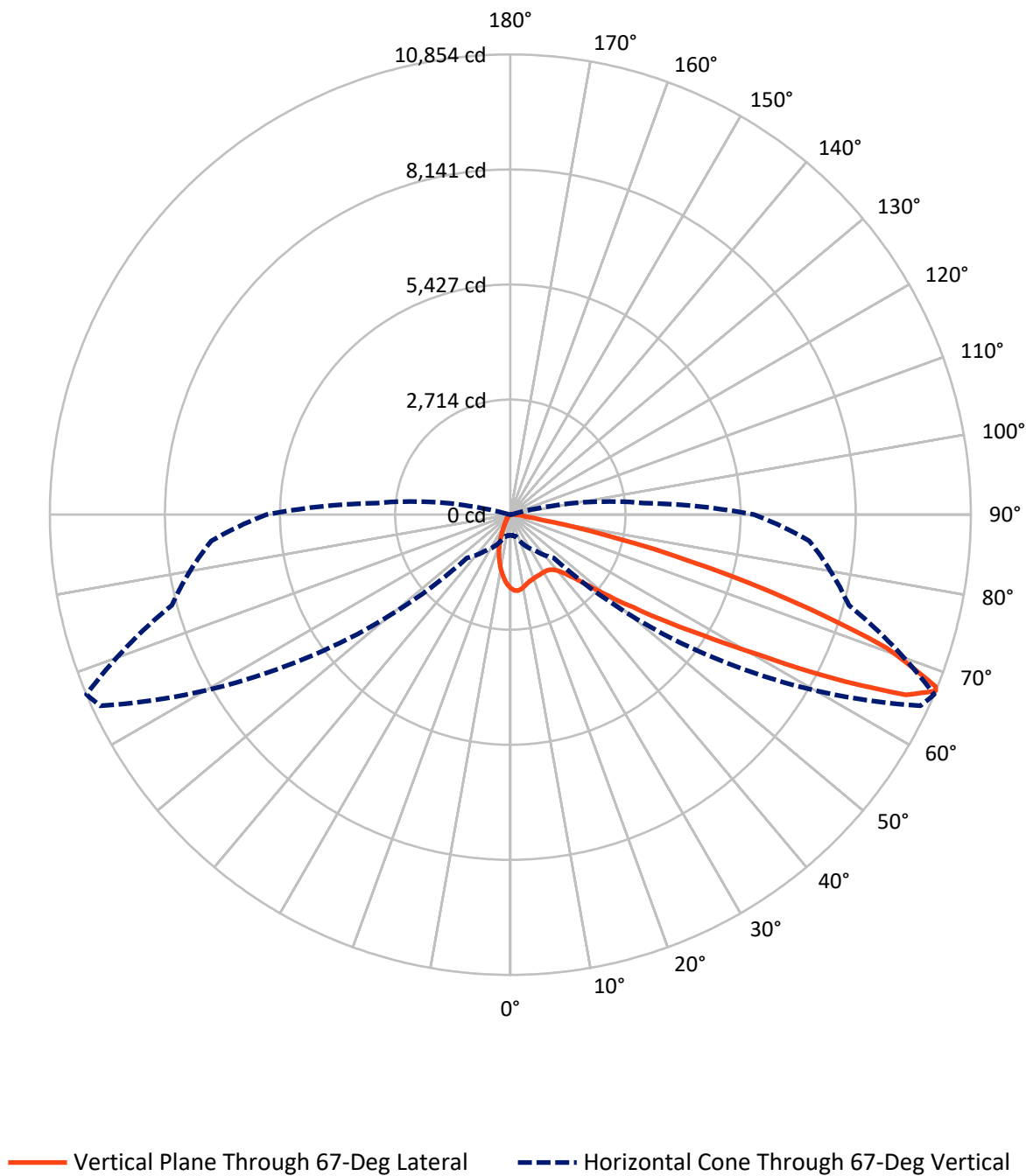


Based on 10 foot mounting height. Maximum calculated value = 17.4 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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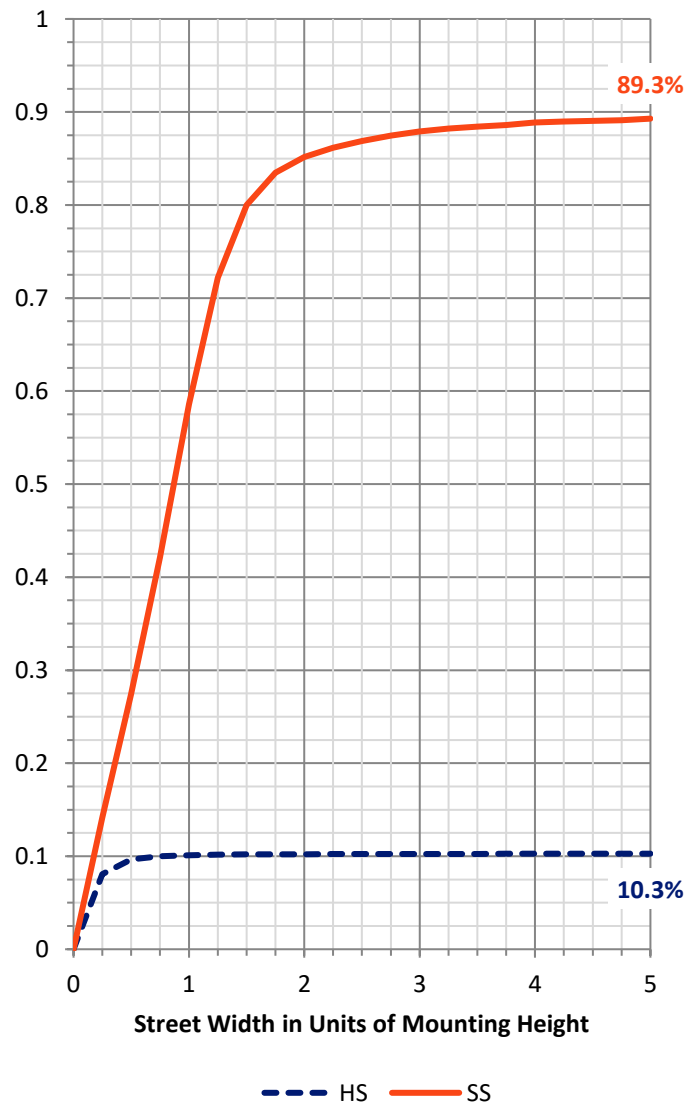
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	818.4	0.0	818.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	7063.6	0.0	7063.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	7882.0	0.0	7882.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	1.8
10°-20°	301.0	3.8
20°-30°	437.7	5.6
30°-40°	682.8	8.7
40°-50°	1209.5	15.3
50°-60°	1914.0	24.3
60°-70°	2192.2	27.8
70°-80°	909.3	11.5
80°-90°	93.9	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°	7882.0	100.0
0°-180°	7882.0	100.0

Coefficient of Utilization



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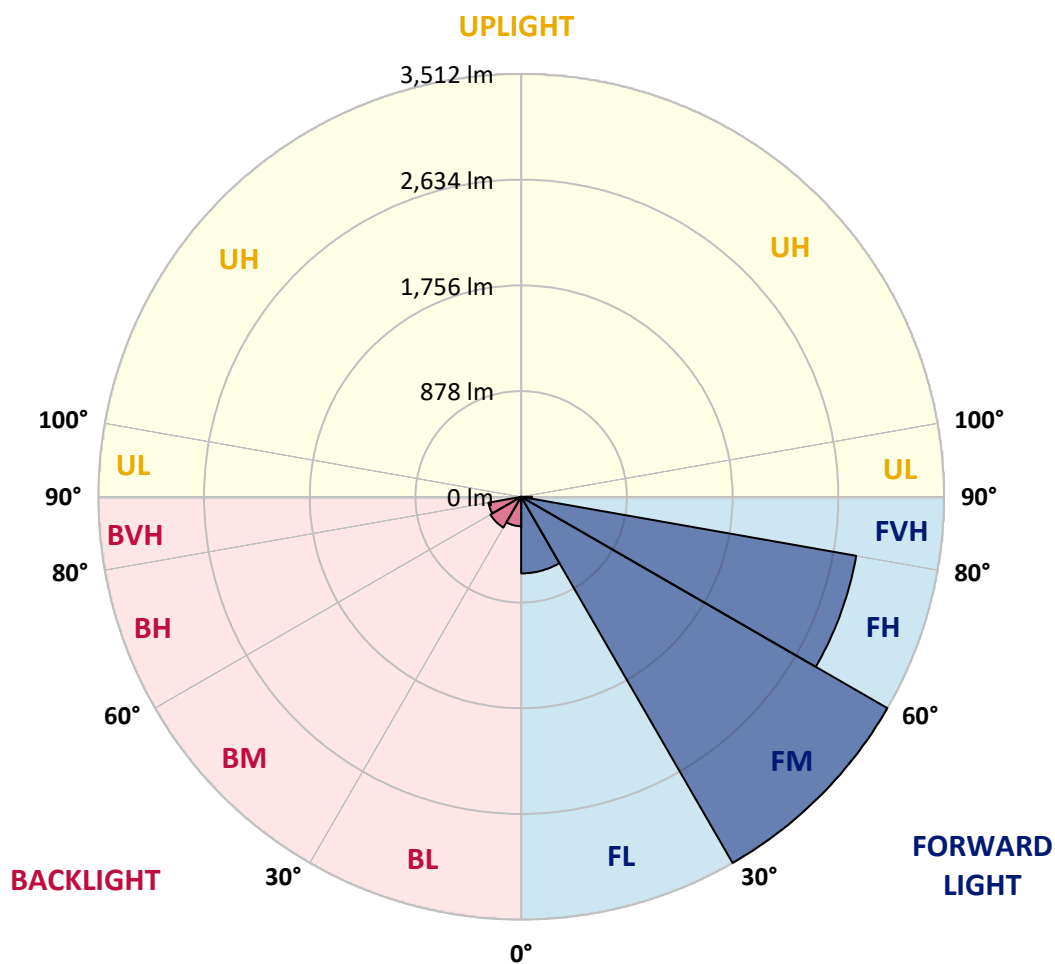
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	636.0	8.1			
FM	(30°-60°)	3512.2	44.6			
FH	(60°-80°)	2825.7	35.9			G2/5000
FVH	(80°-90°)	89.7	1.1			G1/100
BL	(0°-30°)	244.2	3.1	B1/500		
BM	(30°-60°)	294.1	3.7	B1/1000		
BH	(60°-80°)	275.8	3.5	B1/500		G1/500
BVH	(80°-90°)	4.2	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°	1738.4	1738.4	1738.4	1738.4	1738.4	1738.4	1738.4	1738.4	1738.4	1738.4	1738.4
2.5°	1797.1	1800.8	1800.4	1803.1	1809.6	1810.0	1803.6	1791.1	1788.3	1772.3	1744.3
5°	1657.4	1668.0	1674.4	1700.5	1730.0	1765.4	1792.1	1801.6	1800.4	1788.8	1746.5
7.5°	1497.8	1508.5	1515.8	1546.6	1585.7	1646.3	1715.7	1772.7	1777.7	1790.2	1744.7
10°	1391.6	1393.5	1403.6	1433.1	1473.9	1535.9	1618.7	1718.5	1733.6	1779.2	1740.1
12.5°	1304.2	1305.6	1319.0	1350.7	1394.3	1456.9	1543.9	1659.2	1682.6	1765.4	1739.2
15°	1242.2	1247.3	1259.2	1292.3	1338.8	1400.8	1490.0	1615.5	1643.6	1760.3	1747.5
17.5°	1221.5	1227.1	1230.7	1254.7	1296.9	1357.6	1449.1	1587.0	1618.7	1763.1	1763.6
20°	1243.2	1247.3	1239.0	1245.0	1271.1	1325.5	1414.6	1562.6	1600.3	1766.2	1784.2
22.5°	1323.5	1325.5	1302.9	1276.7	1272.1	1302.0	1387.5	1543.3	1583.8	1775.0	1808.6
25°	1461.5	1458.3	1421.5	1364.9	1311.6	1297.9	1371.4	1531.4	1575.5	1784.2	1833.9
27.5°	1628.0	1632.6	1582.0	1499.7	1398.1	1325.5	1369.1	1526.4	1571.8	1790.6	1856.0
30°	1830.2	1836.6	1778.7	1675.3	1529.5	1393.5	1390.3	1525.4	1569.5	1786.5	1857.9
32.5°	2036.6	2044.5	1998.9	1892.3	1705.2	1507.4	1438.1	1535.5	1574.1	1772.3	1847.2
35°	2252.7	2263.8	2233.4	2141.9	1943.2	1672.1	1522.2	1566.3	1595.7	1770.9	1836.6
37.5°	2551.1	2561.1	2504.2	2407.2	2231.5	1892.7	1657.4	1624.2	1646.7	1793.0	1839.4
40°	2996.6	2995.3	2848.1	2699.6	2548.4	2173.1	1847.2	1729.0	1740.6	1859.6	1873.5
42.5°	3482.1	3479.8	3262.3	3036.6	2900.1	2518.4	2096.9	1910.2	1902.4	1982.4	1961.7
45°	3856.3	3855.8	3678.3	3424.0	3323.4	2914.7	2419.5	2162.1	2150.2	2181.9	2124.4
47.5°	4015.9	4018.5	3929.4	3750.6	3792.8	3450.7	2826.4	2527.1	2509.2	2496.3	2409.0
50°	3891.7	3897.2	3904.5	3869.6	4137.2	4171.2	3372.2	3041.7	3032.9	2975.4	2838.9
52.5°	3486.1	3514.3	3600.6	3711.4	4256.7	4862.6	4227.8	3680.6	3633.8	3572.6	3422.3
55°	2803.0	2833.8	2998.0	3266.9	4078.7	5316.9	5426.7	4504.5	4426.3	4243.8	4026.9
57.5°	1855.0	1902.9	2141.1	2483.0	3562.1	5390.0	6623.0	5647.8	5375.7	4875.9	4631.4
60°	1022.0	1068.0	1326.3	1636.1	2572.7	5028.5	7427.6	7136.5	6655.6	5582.6	5365.6
62.5°	629.4	654.3	845.0	1133.2	1542.8	3969.0	7593.9	9007.2	8450.4	6492.4	6252.5
65°	501.1	511.7	605.0	926.4	1106.1	2360.8	7056.5	10433.2	10247.5	7593.9	7046.3
67°	486.4	490.6	534.8	795.3	1042.7	1447.2	5911.8	10665.5	10854.0	8260.5	7071.3
67.5°	489.6	494.2	536.0	759.1	1040.8	1330.0	5517.3	10573.9	10812.1	8313.4	6961.4
70°	472.1	486.4	613.7	758.6	989.8	1105.1	3304.1	9161.6	9409.4	7724.5	5906.7
72.5°	167.3	168.3	265.3	613.7	1076.2	1117.1	1659.2	6716.2	6899.7	5909.0	4258.5
75°	99.3	84.5	88.3	174.7	1028.4	1085.0	957.2	4291.6	4360.1	3386.0	2156.7
77.5°	68.5	59.8	61.6	77.2	391.7	1069.7	760.5	2237.9	2164.9	1187.5	459.3
80°	39.2	34.5	36.8	67.6	142.5	998.1	717.2	907.5	773.8	201.4	126.8
82.5°	20.6	17.5	21.2	55.6	99.3	622.0	718.6	438.5	347.6	68.1	86.5
85°	7.3	6.0	10.2	38.1	66.2	190.7	666.2	368.8	289.6	33.1	65.8
87.5°	1.4	1.4	4.2	15.7	26.7	58.4	394.0	218.8	146.6	19.7	45.1
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°	1738.4	1738.4	1738.4	1738.4	1738.4	1738.4	1738.4	1738.4	1738.4	1738.4	1738.4
2.5°	1732.8	1712.9	1686.3	1653.6	1615.1	1581.0	1555.8	1529.5	1524.0	1514.9	1513.5
5°	1721.3	1687.2	1621.1	1545.2	1464.3	1391.2	1331.9	1279.0	1255.5	1235.2	1233.0
7.5°	1704.2	1653.2	1540.5	1418.3	1291.9	1176.9	1079.5	1010.5	947.1	916.6	912.1
10°	1684.4	1611.3	1450.0	1280.4	1105.7	943.4	798.5	677.2	603.6	560.0	554.5
12.5°	1666.1	1570.5	1357.6	1137.4	905.2	688.3	502.0	386.2	308.9	277.6	274.0
15°	1657.4	1537.4	1271.1	991.2	695.6	438.1	274.5	212.4	187.2	179.7	179.3
17.5°	1656.5	1509.3	1186.5	839.9	487.3	254.7	178.8	163.3	158.1	156.3	156.3
20°	1656.0	1482.6	1102.0	683.2	309.4	169.7	148.9	145.4	141.6	139.3	139.3
22.5°	1661.1	1458.7	1013.7	523.2	194.9	137.4	131.0	127.4	122.7	119.5	119.1
25°	1666.1	1440.4	923.6	372.3	141.2	119.5	113.1	108.0	101.6	97.5	97.0
27.5°	1667.0	1417.4	827.1	249.2	118.1	104.4	96.0	88.3	81.0	76.8	76.3
30°	1653.2	1378.8	719.9	168.3	104.4	90.5	79.5	71.2	64.4	61.1	61.1
32.5°	1626.1	1330.9	602.2	126.8	92.9	77.7	65.8	57.9	53.3	51.9	51.5
35°	1601.7	1279.4	481.4	107.6	83.2	65.8	53.7	48.7	46.0	45.6	45.1
37.5°	1587.4	1238.0	367.7	97.5	74.0	55.1	45.6	41.8	40.4	39.6	40.0
40°	1598.5	1203.6	271.7	89.1	64.8	46.0	38.6	36.8	35.4	35.0	35.0
42.5°	1646.7	1197.6	201.8	81.8	56.0	38.1	33.6	32.2	31.2	30.8	31.2
45°	1773.8	1234.4	156.8	75.0	47.3	32.2	28.5	28.1	27.6	27.6	27.6
47.5°	1964.5	1310.2	130.6	67.0	39.6	27.6	24.8	24.4	23.9	24.4	24.4
50°	2287.7	1449.1	116.8	59.3	32.7	23.5	21.2	21.2	21.2	21.2	21.7
52.5°	2779.1	1722.2	107.6	51.5	26.7	19.7	17.9	17.9	18.3	18.3	18.9
55°	3326.6	2084.4	99.3	43.7	22.5	16.5	14.7	15.2	15.7	16.1	16.1
57.5°	3920.7	2485.7	92.5	35.8	19.3	13.3	12.4	12.9	13.3	14.2	14.2
60°	4637.4	2920.3	82.3	28.1	16.1	10.6	9.7	10.6	11.9	12.9	13.3
62.5°	5424.4	3340.5	69.4	22.1	13.3	8.3	7.8	9.7	11.5	12.4	12.9
65°	5962.3	3472.4	53.3	17.9	10.2	6.0	6.4	8.7	11.0	12.4	12.4
67°	5744.5	3148.3	43.7	15.2	8.3	4.6	6.0	8.7	11.0	11.9	12.4
67.5°	5593.2	3021.3	41.8	14.7	7.8	4.6	6.0	8.7	11.0	12.4	12.4
70°	4550.9	2269.8	35.0	11.0	6.4	4.2	5.0	8.3	10.6	11.9	11.9
72.5°	3162.1	1399.4	31.2	7.8	5.5	3.8	4.6	7.8	10.2	11.5	11.9
75°	1503.3	506.6	26.7	6.0	5.0	3.2	4.2	7.8	10.2	11.5	11.5
77.5°	306.7	117.7	21.7	5.0	4.2	3.2	3.8	7.3	9.7	11.0	11.0
80°	100.6	45.6	16.1	4.6	4.2	3.2	3.8	6.9	9.7	10.6	11.0
82.5°	72.6	23.0	10.6	4.6	4.2	3.2	3.2	6.9	9.2	10.6	10.6
85°	55.6	16.1	6.9	4.6	4.2	3.2	3.2	6.4	8.7	10.2	10.2
87.5°	36.8	6.4	5.5	4.6	4.2	3.2	3.2	6.4	8.3	9.7	10.2
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)