

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: P192950

Luminaire Tested: **GAN-AF-02-LED-U-SL4-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9559.1 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 113
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

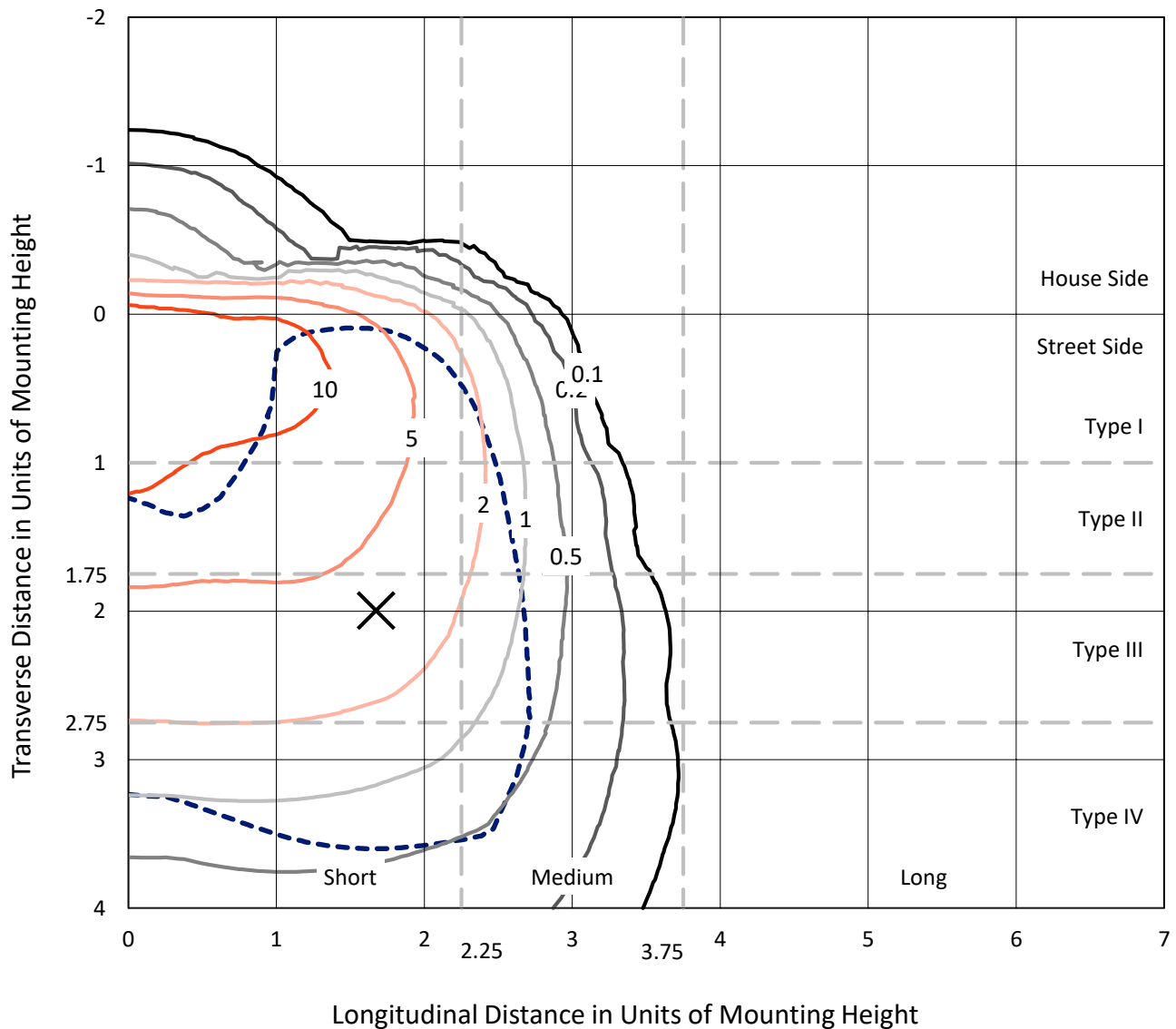


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

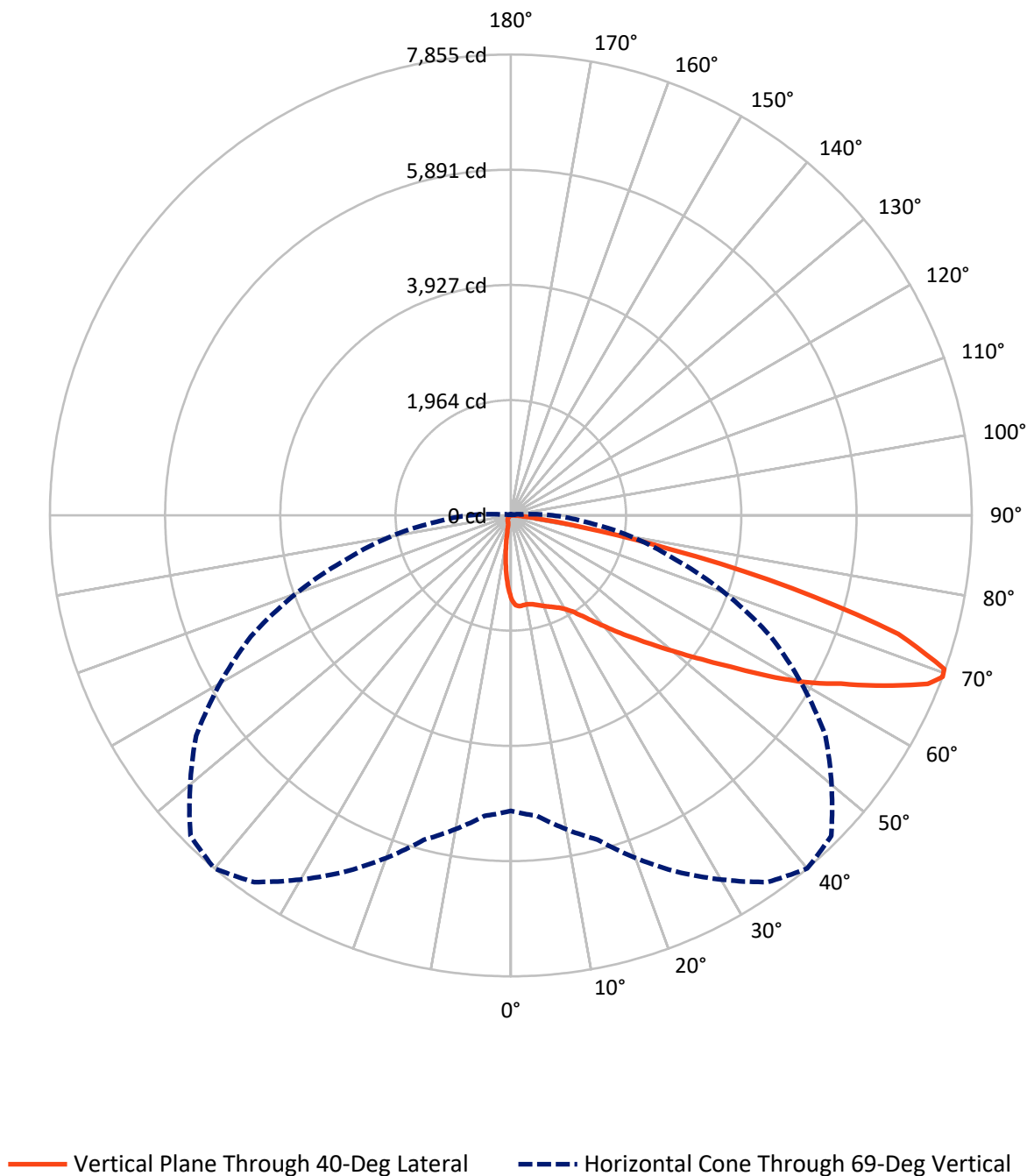


Based on 10 foot mounting height. Maximum calculated value = 15.6 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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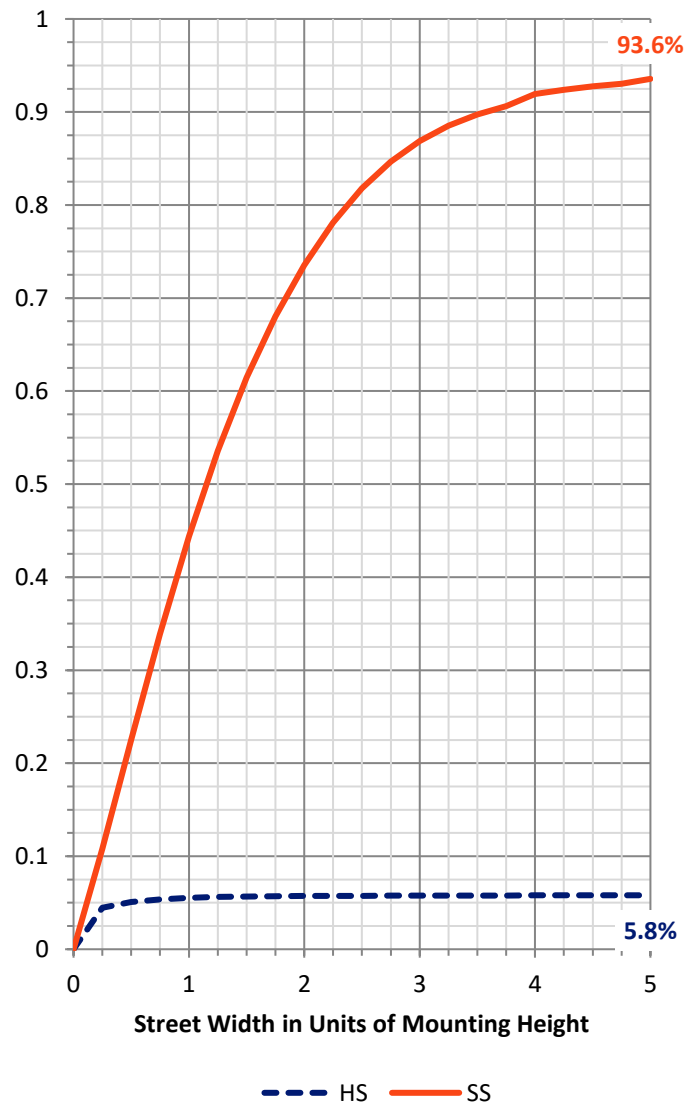
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	559.3	0.0	559.3
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	8999.8	0.0	8999.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	9559.1	0.0	9559.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	1.2
10°-20°	284.8	3.0
20°-30°	479.6	5.0
30°-40°	785.2	8.2
40°-50°	1359.5	14.2
50°-60°	2141.4	22.4
60°-70°	2796.6	29.3
70°-80°	1440.4	15.1
80°-90°	155.8	1.6
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°	9559.1	100.0
0°-180°	9559.1	100.0

Coefficient of Utilization



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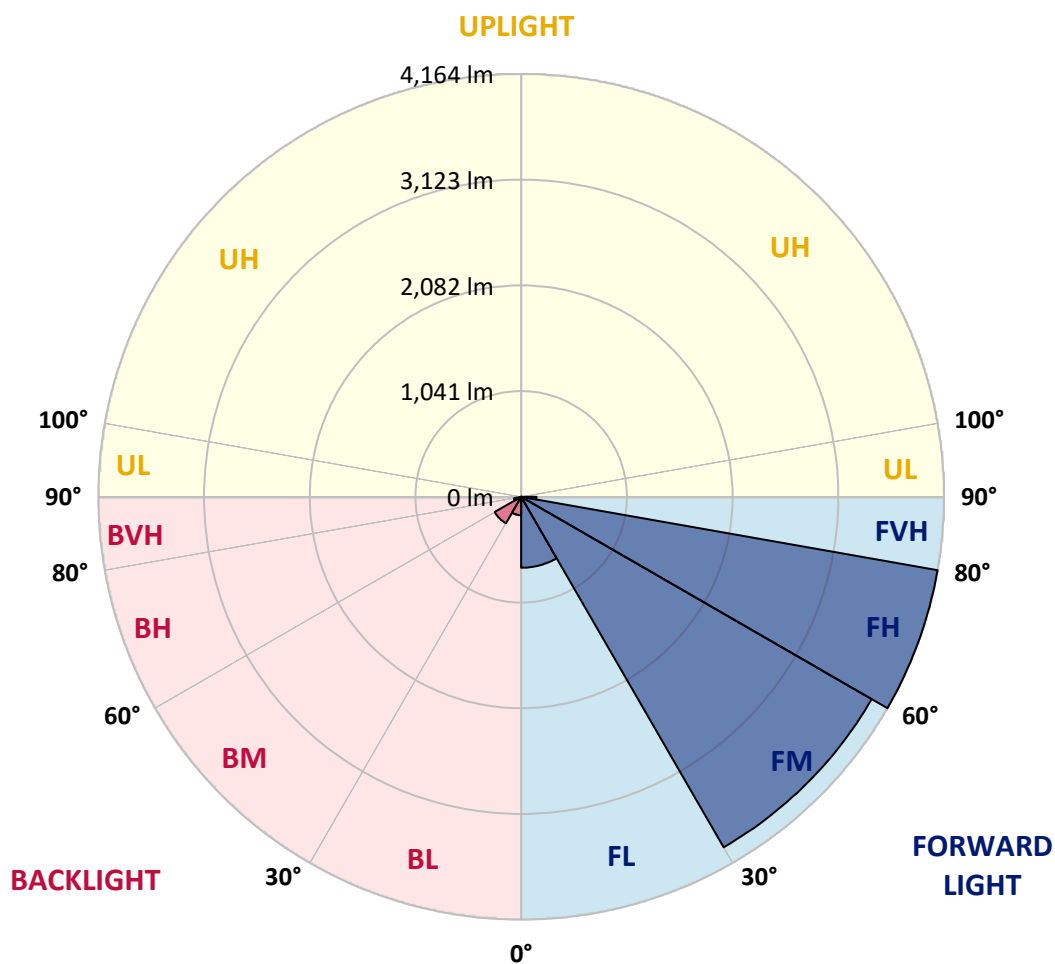
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	699.0	7.3			
FM	(30°-60°)	3985.5	41.7			
FH	(60°-80°)	4164.3	43.6			G2/5000
FVH	(80°-90°)	150.9	1.6			G2/225
BL	(0°-30°)	181.2	1.9	B1/500		
BM	(30°-60°)	300.6	3.1	B1/1000		
BH	(60°-80°)	72.6	0.8	B0/110		G0/110
BVH	(80°-90°)	4.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1428.1	1428.1	1428.1	1428.1	1428.1	1428.1	1428.1	1428.1	1428.1	1428.1	1428.1
2.5°	1568.2	1559.5	1554.5	1547.6	1539.1	1531.7	1528.9	1507.9	1487.9	1460.6	1429.3
5°	1597.2	1594.3	1585.3	1576.1	1565.9	1554.5	1548.2	1523.2	1494.7	1454.9	1400.2
7.5°	1600.0	1596.6	1585.3	1572.7	1558.5	1544.8	1534.0	1509.0	1482.7	1442.4	1375.8
10°	1595.5	1591.5	1582.9	1569.3	1551.7	1538.6	1527.8	1503.9	1481.7	1445.3	1371.3
12.5°	1590.4	1586.3	1582.4	1575.5	1560.2	1551.1	1541.9	1519.2	1499.2	1468.6	1387.8
15°	1595.5	1593.2	1597.7	1594.8	1586.3	1578.4	1569.3	1548.7	1530.6	1505.0	1417.9
17.5°	1617.0	1617.0	1631.4	1633.0	1625.0	1613.6	1600.5	1580.1	1564.7	1543.1	1453.8
20°	1667.8	1665.9	1684.2	1687.6	1668.3	1650.7	1631.4	1606.2	1594.3	1580.7	1489.1
22.5°	1754.8	1746.8	1757.7	1754.1	1716.1	1688.8	1664.9	1634.2	1627.9	1621.6	1528.3
25°	1868.0	1863.4	1870.8	1837.3	1770.1	1733.2	1704.7	1670.0	1670.0	1676.2	1572.7
27.5°	2032.4	2015.4	1990.3	1931.1	1830.4	1783.2	1752.5	1715.5	1725.2	1748.4	1631.4
30°	2200.9	2182.1	2124.6	2033.7	1903.9	1854.3	1818.5	1779.9	1802.6	1845.3	1709.8
32.5°	2367.0	2346.1	2264.6	2149.6	2009.2	1959.6	1924.9	1882.2	1920.3	1992.1	1824.7
35°	2528.0	2509.2	2415.4	2279.9	2149.1	2108.1	2076.3	2039.4	2088.2	2188.4	1986.9
37.5°	2709.0	2688.6	2574.1	2427.3	2319.2	2289.6	2266.2	2229.3	2314.6	2461.5	2212.8
40°	2931.4	2896.8	2742.5	2596.3	2516.1	2501.8	2485.9	2480.8	2613.4	2816.4	2513.8
42.5°	3186.3	3129.5	2919.0	2774.4	2732.3	2742.5	2738.6	2761.3	2987.2	3258.1	2880.3
45°	3441.2	3367.9	3115.2	2964.4	2970.1	3006.0	3028.2	3119.3	3455.6	3764.4	3274.6
47.5°	3657.5	3585.3	3303.6	3169.8	3238.1	3308.7	3369.0	3541.4	3936.8	4262.9	3581.3
50°	3842.4	3774.2	3503.3	3395.8	3549.4	3663.3	3761.0	4016.6	4454.6	4642.4	3796.3
52.5°	3993.8	3948.3	3710.5	3654.6	3905.0	4071.8	4215.1	4521.2	4913.3	4950.9	3963.6
55°	4141.2	4108.7	3932.9	3962.5	4322.7	4549.7	4731.2	5056.6	5308.2	5208.1	4124.1
57.5°	4310.8	4281.1	4186.7	4352.8	4871.8	5157.4	5355.4	5531.2	5655.8	5470.9	4275.5
60°	4483.7	4466.6	4468.9	4786.4	5502.2	5776.4	5885.7	5931.2	5997.2	5718.4	4283.9
62.5°	4648.7	4681.1	4791.4	5268.9	6105.9	6316.4	6371.6	6416.6	6339.2	5757.6	3957.9
65°	4928.0	4981.0	5244.5	5914.8	6769.9	6995.3	7052.1	6898.0	6393.2	5250.1	3219.4
67.5°	5064.6	5161.4	5631.3	6516.7	7414.0	7664.3	7643.3	6929.2	5737.2	4003.5	2066.0
69°	5036.2	5139.1	5720.7	6701.1	7627.9	7854.9	7721.3	6546.3	4887.7	2900.2	1268.3
70°	4923.6	5027.7	5674.6	6694.2	7655.2	7835.1	7576.7	6073.5	4132.6	2120.6	793.2
72.5°	4111.5	4201.4	5037.8	6050.7	7052.1	6905.8	6338.5	4207.7	2013.6	577.6	178.6
75°	2530.9	2580.9	3614.9	4558.2	5326.4	4950.9	4223.1	2093.3	600.3	163.4	99.0
77.5°	1337.2	1360.0	1979.0	2686.8	3376.4	2793.8	2164.4	816.5	276.5	102.3	71.7
80°	790.4	807.4	1065.8	1228.5	1461.3	1220.5	865.5	501.3	198.0	64.3	63.7
82.5°	452.4	463.2	772.7	682.8	575.8	491.5	430.7	475.1	118.9	43.2	66.0
85°	166.2	168.4	434.8	519.5	342.5	203.7	213.9	393.8	31.9	27.4	51.8
87.5°	77.3	75.7	223.7	318.1	200.3	129.2	166.7	86.6	12.6	17.6	14.2
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°	1428.1	1428.1	1428.1	1428.1	1428.1	1428.1	1428.1	1428.1	1428.1	1428.1	1428.1
2.5°	1411.1	1390.1	1352.0	1312.6	1272.9	1242.2	1212.0	1188.0	1180.1	1165.2	1166.5
5°	1367.8	1329.1	1249.5	1168.7	1084.5	1015.1	949.7	896.7	871.2	845.0	845.0
7.5°	1330.3	1274.0	1149.4	1018.0	881.9	767.5	664.7	587.2	544.5	510.4	509.8
10°	1316.1	1239.9	1065.8	877.4	687.9	532.0	409.7	331.2	290.7	264.6	263.5
12.5°	1322.4	1227.8	1001.5	747.7	509.8	342.0	237.3	186.7	169.6	161.6	161.6
15°	1340.5	1224.5	937.1	620.8	360.2	213.9	157.7	144.0	142.8	142.8	142.8
17.5°	1362.8	1225.6	871.2	497.3	245.3	153.1	136.0	134.3	135.4	135.4	135.4
20°	1385.5	1226.2	800.0	383.0	172.9	133.2	128.1	127.5	128.6	128.6	129.2
22.5°	1413.4	1229.0	728.9	286.2	142.8	125.7	121.8	121.8	122.4	122.4	121.8
25°	1445.3	1234.7	654.9	212.2	130.3	120.6	117.2	116.7	117.2	116.7	116.1
27.5°	1485.1	1242.8	572.4	166.2	124.5	115.5	112.6	112.6	112.1	111.6	111.0
30°	1535.2	1251.8	479.6	141.2	118.9	111.0	108.0	107.5	107.0	105.9	105.9
32.5°	1611.3	1271.7	388.1	128.1	112.6	104.7	102.3	102.3	101.3	100.2	99.5
35°	1728.6	1311.0	306.2	120.0	105.9	97.9	95.0	95.0	93.9	93.3	92.8
37.5°	1890.7	1370.6	237.8	112.6	99.0	90.4	87.6	87.1	85.9	84.7	84.2
40°	2106.4	1444.6	187.2	105.9	92.3	83.0	80.9	79.6	77.3	75.7	75.7
42.5°	2377.3	1528.9	151.9	98.5	84.2	76.3	74.6	72.8	68.9	67.2	66.5
45°	2660.6	1604.6	128.6	89.9	76.3	69.4	68.3	65.4	60.3	58.6	58.6
47.5°	2864.9	1622.2	113.2	82.0	68.9	62.1	61.4	56.4	51.8	50.6	50.0
50°	2992.4	1587.5	100.7	74.0	62.1	55.1	53.5	47.2	44.4	43.2	42.7
52.5°	3078.3	1525.5	90.4	67.2	55.7	48.9	44.9	40.4	38.1	37.0	37.0
55°	3147.1	1437.9	80.2	60.8	50.6	43.8	38.1	34.8	32.4	31.2	31.2
57.5°	3166.5	1319.0	70.0	55.7	45.6	38.7	32.4	30.1	27.4	26.8	26.8
60°	3025.9	1104.4	62.1	49.5	41.0	33.6	28.4	25.5	22.7	22.2	21.7
62.5°	2655.5	854.6	54.6	43.8	35.8	29.1	24.5	21.1	18.8	18.8	18.8
65°	2025.6	572.9	47.7	38.1	31.2	24.5	21.1	17.1	16.0	16.0	16.5
67.5°	1212.6	311.8	41.0	32.4	26.8	20.4	17.6	14.7	14.2	14.7	14.7
69°	710.6	183.2	37.0	29.1	23.4	18.2	15.4	13.1	14.2	14.7	14.7
70°	438.6	123.5	34.1	26.2	21.1	16.5	14.2	12.6	13.6	14.2	14.2
72.5°	122.4	63.7	27.4	20.4	17.1	13.6	11.4	11.4	13.1	13.6	13.6
75°	79.6	47.2	21.1	15.4	13.1	10.8	9.8	10.8	12.6	13.1	13.1
77.5°	66.0	38.7	17.1	12.6	10.8	10.3	9.1	9.8	11.4	11.9	11.9
80°	60.3	27.4	13.6	11.4	9.8	9.1	8.5	7.9	10.3	10.8	10.8
82.5°	57.5	21.7	11.9	10.3	9.1	7.9	7.4	7.9	9.1	9.8	10.3
85°	35.8	14.2	10.8	9.8	7.9	7.4	7.4	7.4	8.5	9.1	9.1
87.5°	13.1	11.4	9.8	7.9	6.8	6.8	6.8	6.8	7.4	8.5	8.5
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)