

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: P192940

Luminaire Tested: **GAN-AF-02-LED-U-SL4-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192940
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-SL4-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA 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: 7723.5 lumens
Efficiency: N/A
Efficacy: 90.9 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): 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

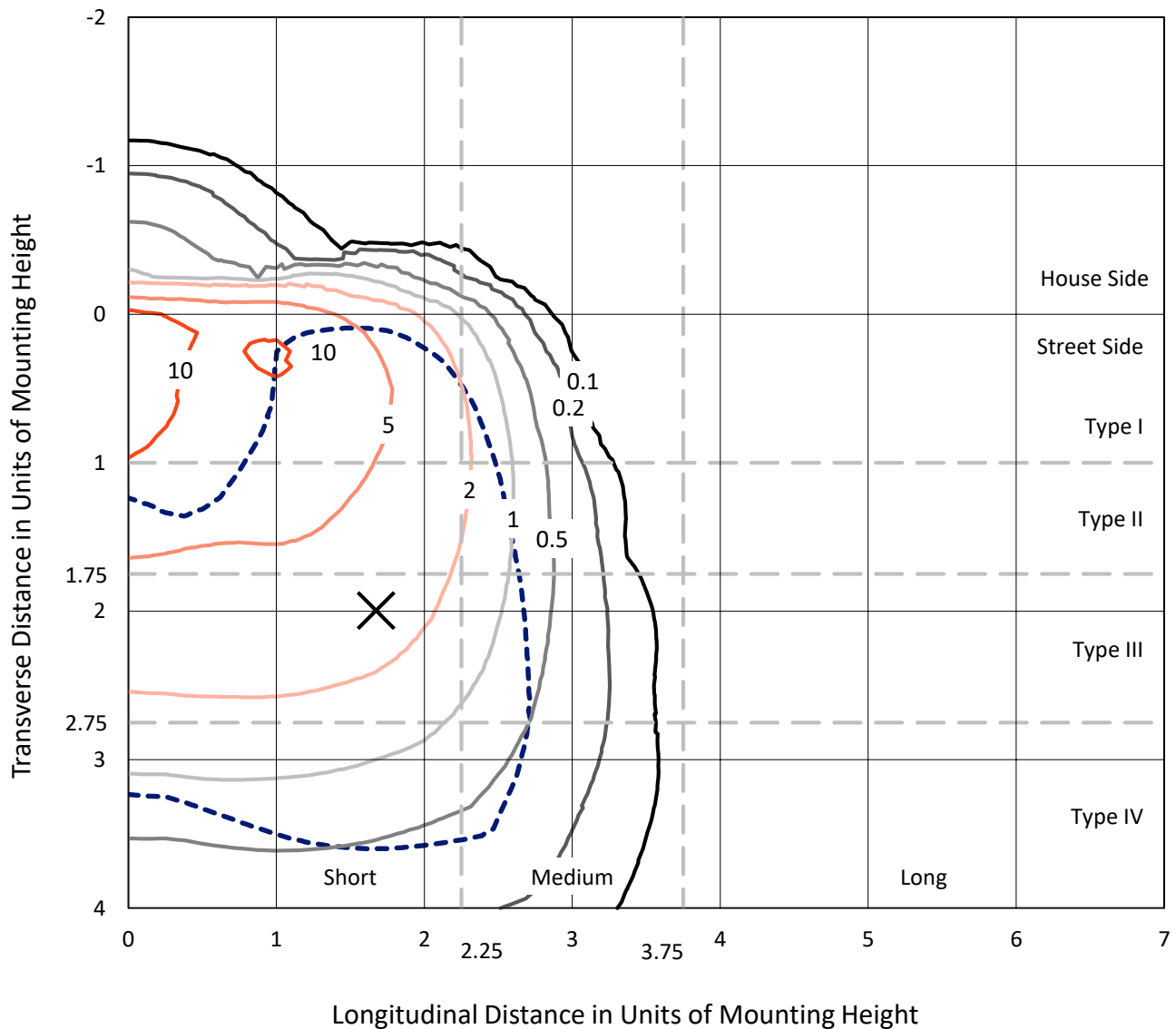


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

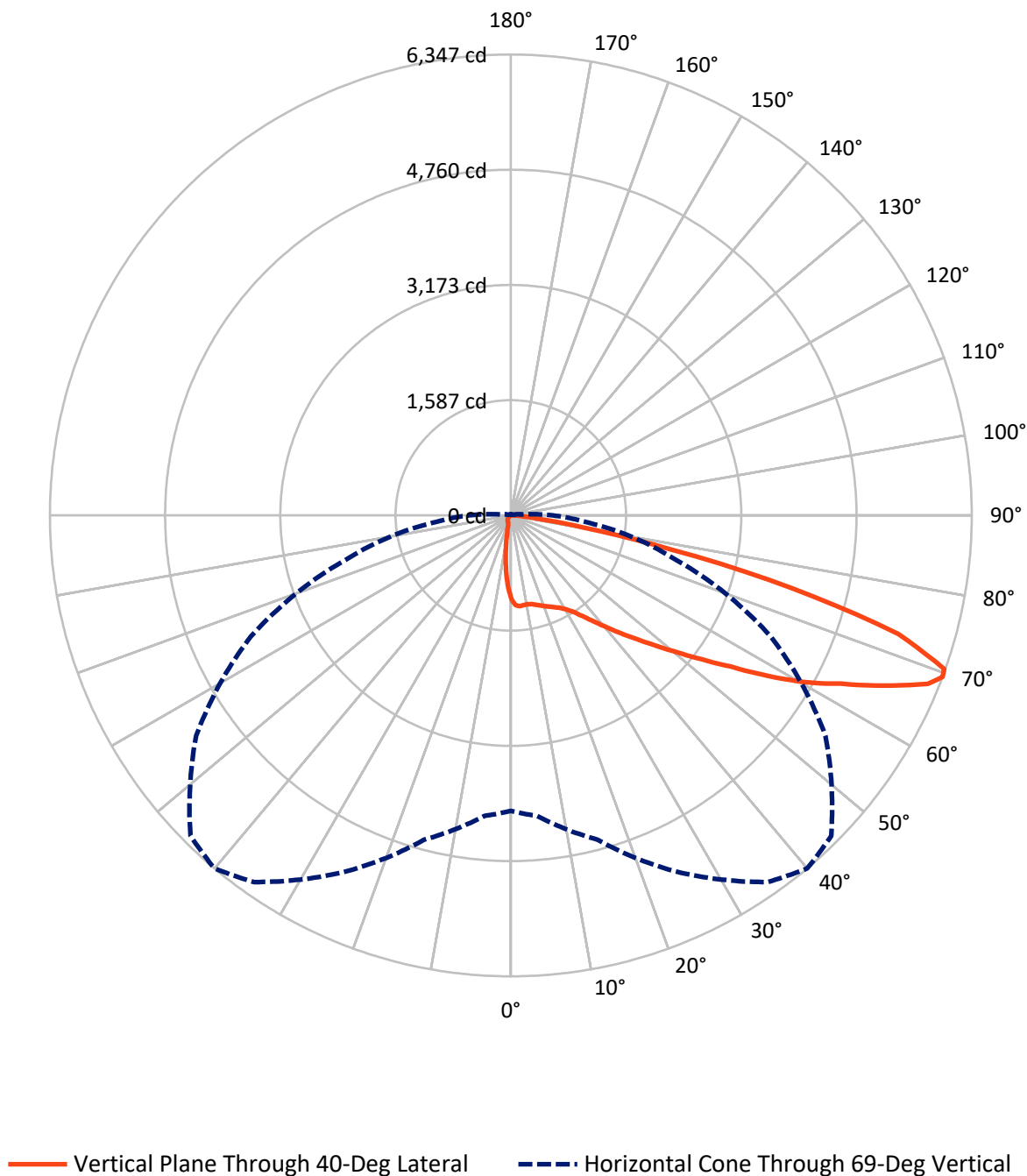


Based on 10 foot mounting height. Maximum calculated value = 12.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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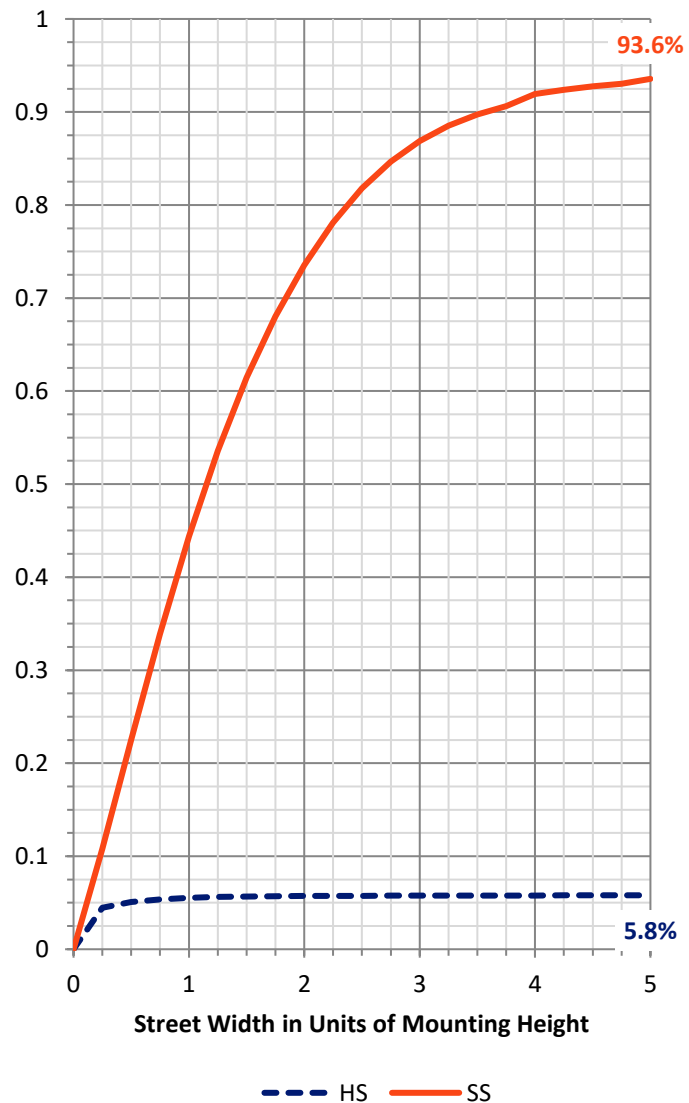
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	451.9	0.0	451.9
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	7271.7	0.0	7271.7
	% Fixture	94.1	0.0	94.1
Total	Lumens	7723.5	0.0	7723.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	1.2
10°-20°	230.1	3.0
20°-30°	387.5	5.0
30°-40°	634.4	8.2
40°-50°	1098.5	14.2
50°-60°	1730.2	22.4
60°-70°	2259.6	29.3
70°-80°	1163.8	15.1
80°-90°	125.9	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°	7723.5	100.0
0°-180°	7723.5	100.0



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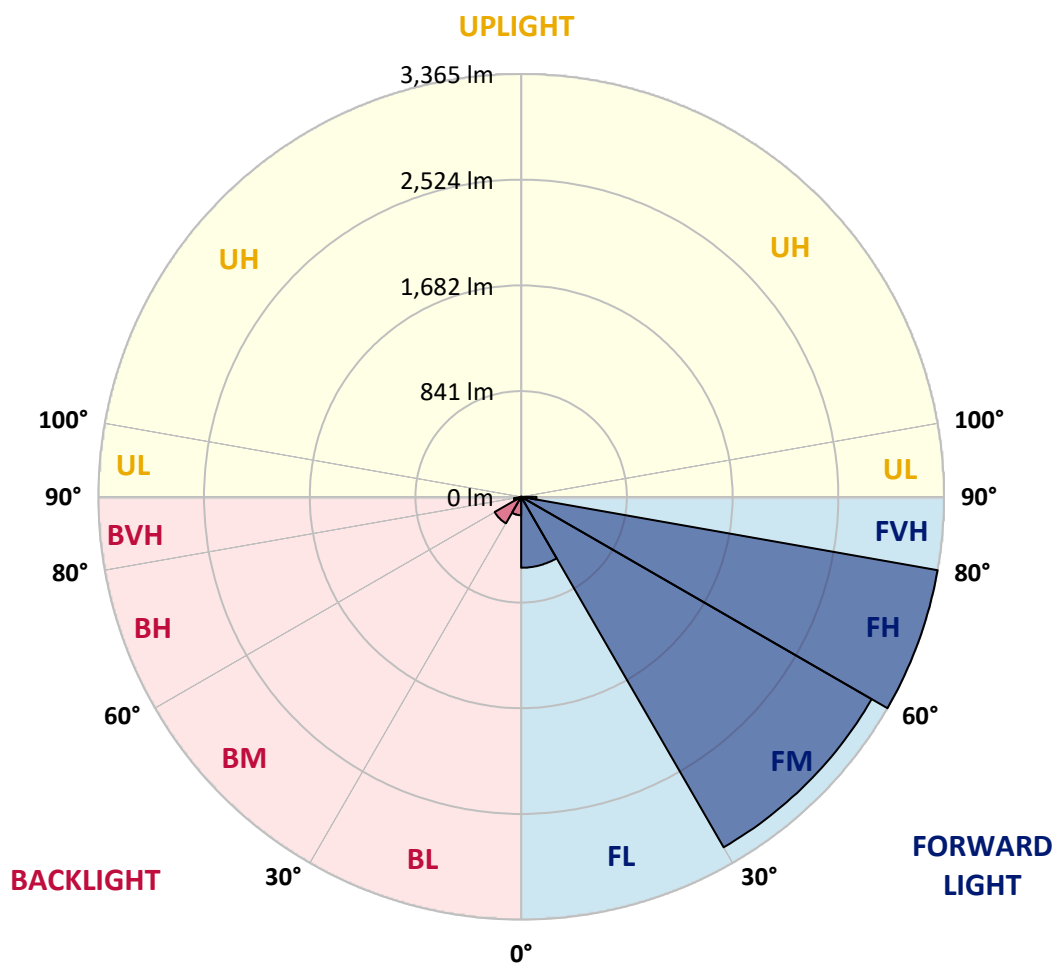
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	564.8	7.3			
FM	(30°-60°)	3220.2	41.7			
FH	(60°-80°)	3364.7	43.6			G2/5000
FVH	(80°-90°)	121.9	1.6			G2/225
BL	(0°-30°)	146.4	1.9	B1/500		
BM	(30°-60°)	242.9	3.1	B1/1000		
BH	(60°-80°)	58.7	0.8	B0/110		G0/110
BVH	(80°-90°)	3.9	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°	1153.9	1153.9	1153.9	1153.9	1153.9	1153.9	1153.9	1153.9	1153.9	1153.9	1153.9
2.5°	1267.1	1260.1	1256.1	1250.5	1243.6	1237.6	1235.2	1218.4	1202.2	1180.1	1154.9
5°	1290.5	1288.1	1280.8	1273.4	1265.2	1256.1	1250.9	1230.7	1207.8	1175.5	1131.4
7.5°	1292.7	1290.1	1280.8	1270.6	1259.2	1248.2	1239.4	1219.3	1198.0	1165.5	1111.6
10°	1289.1	1285.9	1279.0	1268.0	1253.8	1243.2	1234.4	1215.1	1197.2	1167.8	1108.0
12.5°	1285.0	1281.7	1278.6	1273.0	1260.7	1253.2	1245.9	1227.5	1211.3	1186.5	1121.3
15°	1289.1	1287.3	1290.9	1288.6	1281.7	1275.3	1268.0	1251.3	1236.7	1215.9	1145.7
17.5°	1306.5	1306.5	1318.1	1319.5	1313.0	1303.8	1293.2	1276.7	1264.2	1246.7	1174.6
20°	1347.5	1346.1	1360.9	1363.5	1347.9	1333.7	1318.1	1297.8	1288.1	1277.1	1203.2
22.5°	1417.8	1411.4	1420.2	1417.3	1386.6	1364.5	1345.2	1320.4	1315.3	1310.2	1234.8
25°	1509.3	1505.6	1511.6	1484.5	1430.2	1400.3	1377.3	1349.4	1349.4	1354.4	1270.6
27.5°	1642.1	1628.4	1608.2	1560.3	1479.0	1440.8	1416.0	1386.1	1393.9	1412.7	1318.1
30°	1778.3	1763.1	1716.7	1643.0	1538.3	1498.3	1469.3	1438.1	1456.4	1491.0	1381.5
32.5°	1912.5	1895.5	1829.8	1736.9	1623.4	1583.2	1555.3	1520.8	1551.6	1609.5	1474.4
35°	2042.6	2027.5	1951.6	1842.1	1736.4	1703.4	1677.5	1647.7	1687.2	1768.2	1605.3
37.5°	2188.8	2172.3	2079.9	1961.2	1873.9	1850.0	1831.0	1801.2	1870.2	1988.8	1787.9
40°	2368.5	2340.6	2215.9	2097.8	2033.0	2021.4	2008.6	2004.5	2111.6	2275.7	2031.1
42.5°	2574.4	2528.6	2358.5	2241.7	2207.7	2215.9	2212.7	2231.1	2413.6	2632.5	2327.2
45°	2780.4	2721.2	2517.0	2395.2	2399.8	2428.9	2446.8	2520.3	2792.0	3041.6	2645.8
47.5°	2955.1	2896.8	2669.2	2561.1	2616.3	2673.3	2722.0	2861.4	3180.9	3444.3	2893.6
50°	3104.6	3049.4	2830.6	2743.7	2867.8	2959.8	3038.8	3245.2	3599.2	3751.0	3067.4
52.5°	3226.9	3190.2	2998.0	2952.8	3155.2	3289.9	3405.7	3653.1	3969.8	4000.2	3202.5
55°	3345.9	3319.8	3177.7	3201.7	3492.6	3676.0	3822.7	4085.6	4288.9	4208.0	3332.2
57.5°	3482.9	3459.0	3382.7	3516.9	3936.3	4167.0	4327.0	4469.1	4569.8	4420.4	3454.4
60°	3622.7	3609.0	3610.8	3867.3	4445.6	4667.2	4755.5	4792.3	4845.6	4620.3	3461.4
62.5°	3756.0	3782.2	3871.4	4257.2	4933.4	5103.5	5148.1	5184.5	5122.0	4652.0	3197.9
65°	3981.7	4024.6	4237.4	4779.0	5469.9	5652.0	5698.0	5573.5	5165.6	4242.0	2601.1
67.5°	4092.1	4170.2	4550.0	5265.3	5990.3	6192.6	6175.7	5598.7	4635.6	3234.7	1669.3
69°	4069.2	4152.3	4622.2	5414.4	6163.2	6346.7	6238.6	5289.2	3949.1	2343.3	1024.8
70°	3978.1	4062.3	4584.9	5408.8	6185.2	6330.6	6121.8	4907.3	3339.1	1713.4	641.0
72.5°	3322.0	3394.6	4070.5	4888.8	5698.0	5579.8	5121.4	3399.7	1627.0	466.6	144.3
75°	2044.9	2085.3	2920.7	3682.9	4303.6	4000.2	3412.1	1691.4	485.0	131.9	80.0
77.5°	1080.3	1098.8	1599.0	2170.9	2728.1	2257.3	1748.8	659.7	223.4	82.7	57.9
80°	638.6	652.4	861.1	992.6	1180.5	986.2	699.3	405.1	159.9	51.9	51.5
82.5°	365.5	374.2	624.3	551.6	465.2	397.1	348.0	383.8	96.0	35.0	53.3
85°	134.3	136.0	351.3	419.8	276.8	164.6	172.8	318.2	25.7	22.1	41.8
87.5°	62.5	61.1	180.8	257.0	161.8	104.4	134.7	69.9	10.2	14.2	11.5
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°	1153.9	1153.9	1153.9	1153.9	1153.9	1153.9	1153.9	1153.9	1153.9	1153.9	1153.9
2.5°	1140.1	1123.1	1092.4	1060.6	1028.4	1003.6	979.3	960.0	953.5	941.5	942.5
5°	1105.1	1073.9	1009.5	944.3	876.3	820.2	767.3	724.5	703.8	682.8	682.8
7.5°	1074.9	1029.3	928.7	822.5	712.6	620.1	537.0	474.4	440.0	412.4	411.9
10°	1063.4	1001.8	861.1	708.9	555.8	429.8	331.0	267.5	234.9	213.8	212.8
12.5°	1068.4	992.1	809.2	604.1	411.9	276.3	191.7	150.8	137.0	130.6	130.6
15°	1083.1	989.4	757.1	501.6	291.0	172.8	127.4	116.4	115.4	115.4	115.4
17.5°	1101.2	990.2	703.8	401.8	198.2	123.7	110.0	108.5	109.4	109.4	109.4
20°	1119.5	990.8	646.4	309.4	139.8	107.6	103.5	103.0	103.9	103.9	104.4
22.5°	1142.0	993.0	588.9	231.2	115.4	101.6	98.4	98.4	98.9	98.9	98.4
25°	1167.8	997.6	529.2	171.4	105.3	97.5	94.7	94.3	94.7	94.3	93.8
27.5°	1199.8	1004.1	462.5	134.3	100.6	93.3	91.0	91.0	90.5	90.1	89.7
30°	1240.4	1011.4	387.6	114.0	96.0	89.7	87.3	86.9	86.5	85.5	85.5
32.5°	1302.0	1027.5	313.6	103.5	91.0	84.5	82.7	82.7	81.8	81.0	80.5
35°	1396.7	1059.3	247.4	97.0	85.5	79.1	76.8	76.8	75.8	75.4	75.0
37.5°	1527.7	1107.5	192.2	91.0	80.0	73.1	70.8	70.4	69.4	68.5	68.1
40°	1701.9	1167.2	151.3	85.5	74.6	67.0	65.3	64.4	62.5	61.1	61.1
42.5°	1920.8	1235.2	122.7	79.5	68.1	61.6	60.2	58.9	55.6	54.3	53.7
45°	2149.6	1296.5	103.9	72.6	61.6	56.0	55.1	52.9	48.7	47.3	47.3
47.5°	2314.7	1310.7	91.4	66.2	55.6	50.1	49.6	45.6	41.8	40.9	40.4
50°	2417.8	1282.7	81.4	59.8	50.1	44.6	43.2	38.1	35.8	35.0	34.5
52.5°	2487.2	1232.6	73.1	54.3	45.1	39.6	36.3	32.7	30.8	29.9	29.9
55°	2542.8	1161.8	64.8	49.1	40.9	35.4	30.8	28.1	26.2	25.2	25.2
57.5°	2558.5	1065.8	56.6	45.1	36.8	31.2	26.2	24.4	22.1	21.7	21.7
60°	2444.9	892.3	50.1	40.0	33.1	27.1	23.0	20.6	18.3	17.9	17.5
62.5°	2145.7	690.5	44.1	35.4	29.0	23.5	19.7	17.1	15.2	15.2	15.2
65°	1636.7	462.9	38.6	30.8	25.2	19.7	17.1	13.7	12.9	12.9	13.3
67.5°	979.7	252.0	33.1	26.2	21.7	16.5	14.2	11.9	11.5	11.9	11.9
69°	574.1	148.0	29.9	23.5	18.9	14.7	12.4	10.6	11.5	11.9	11.9
70°	354.4	99.8	27.6	21.2	17.1	13.3	11.5	10.2	11.0	11.5	11.5
72.5°	98.9	51.5	22.1	16.5	13.7	11.0	9.2	9.2	10.6	11.0	11.0
75°	64.4	38.1	17.1	12.4	10.6	8.7	7.8	8.7	10.2	10.6	10.6
77.5°	53.3	31.2	13.7	10.2	8.7	8.3	7.3	7.8	9.2	9.7	9.7
80°	48.7	22.1	11.0	9.2	7.8	7.3	6.9	6.4	8.3	8.7	8.7
82.5°	46.4	17.5	9.7	8.3	7.3	6.4	6.0	6.4	7.3	7.8	8.3
85°	29.0	11.5	8.7	7.8	6.4	6.0	6.0	6.0	6.9	7.3	7.3
87.5°	10.6	9.2	7.8	6.4	5.5	5.5	5.5	5.5	6.0	6.9	6.9
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)