

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: P192959

Luminaire Tested: **GAN-AF-01-LED-U-SL4-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192959
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-01-LED-U-SL4-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE 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: 5366.8 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 67
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



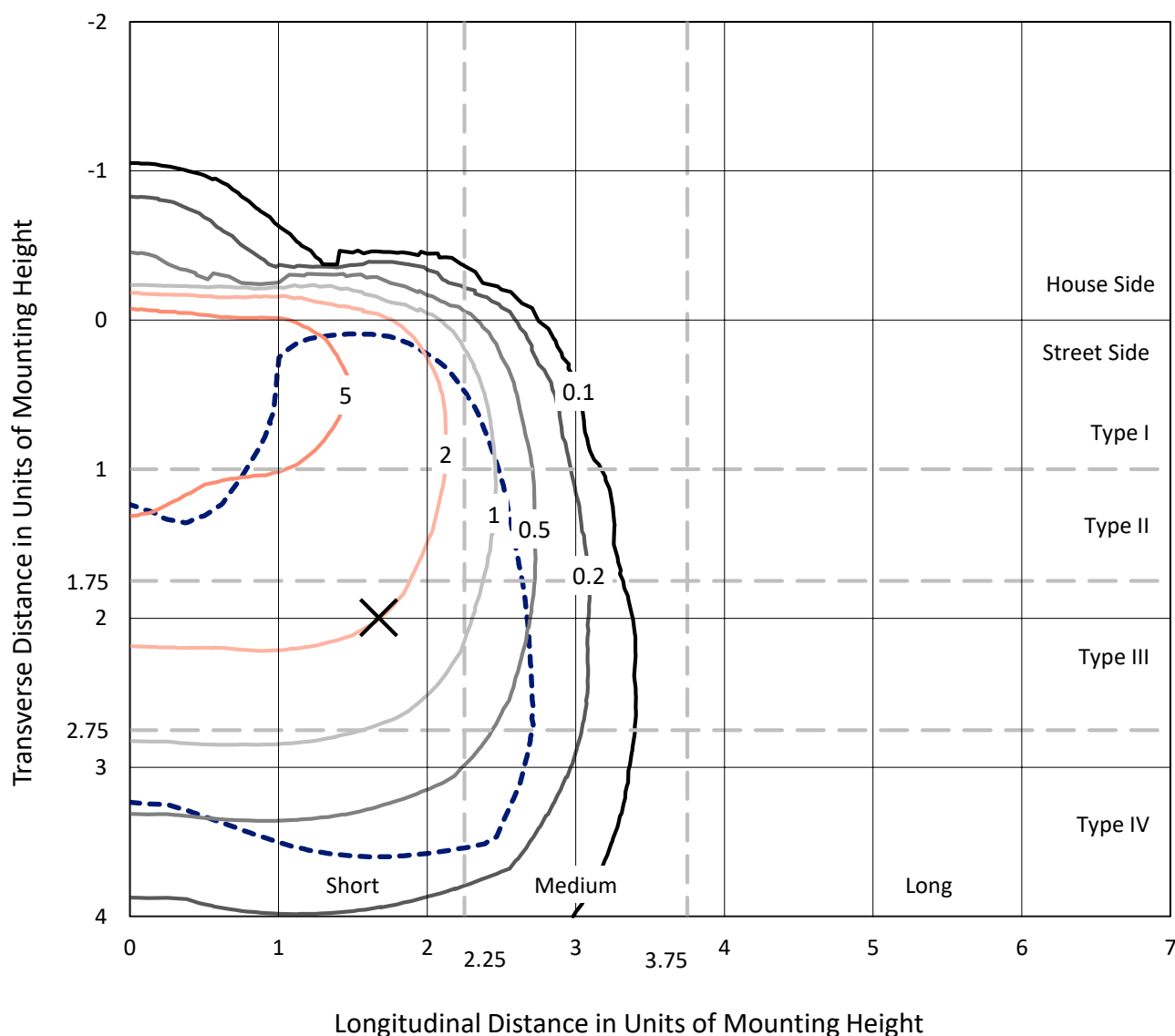
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

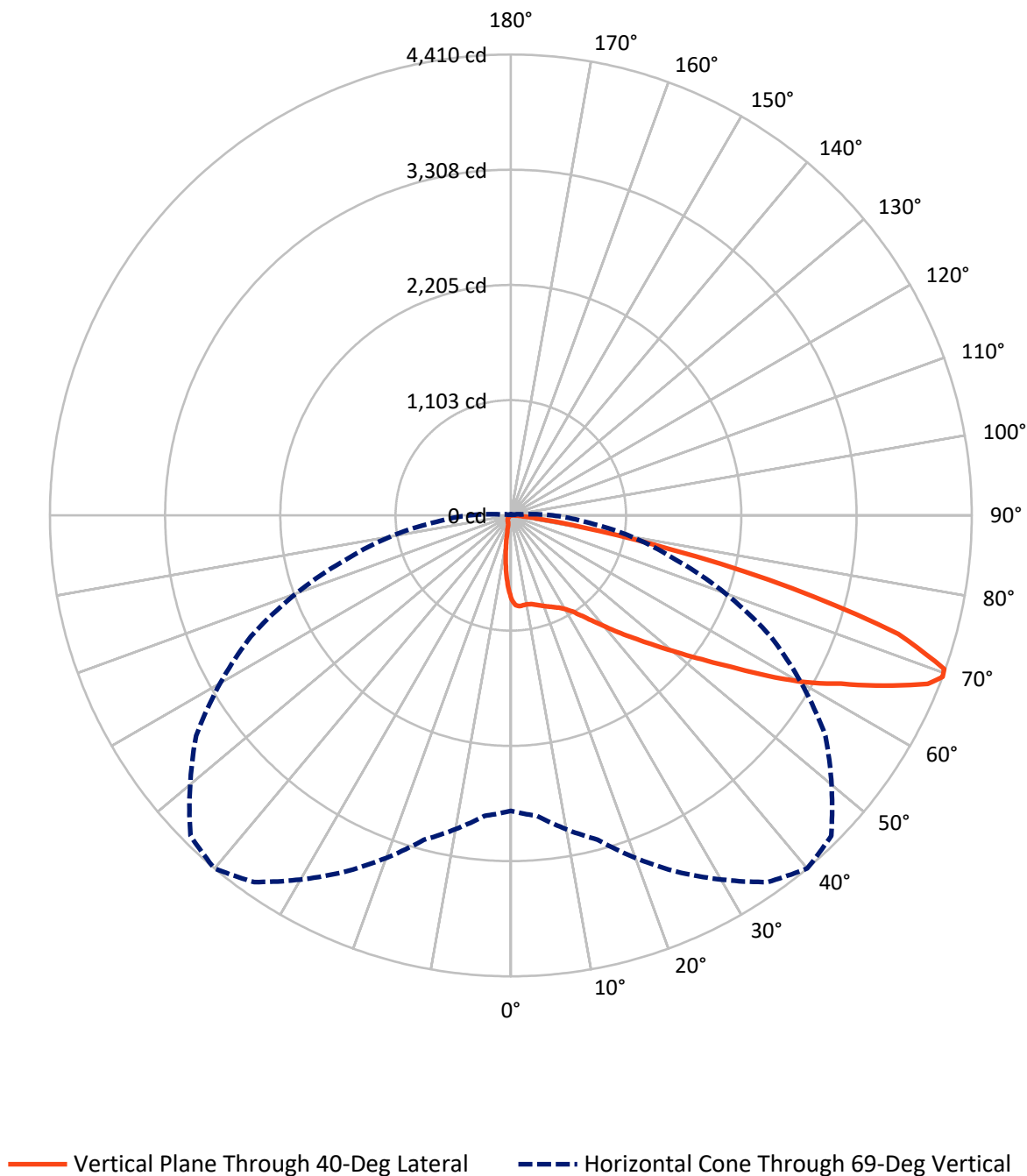


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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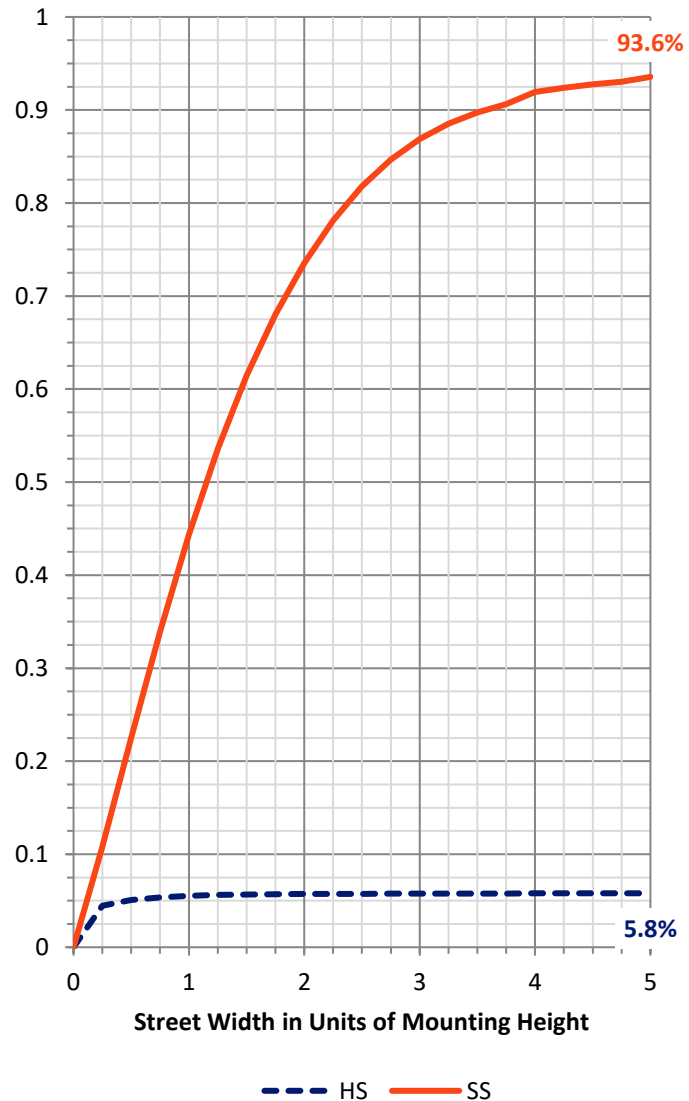
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	314.0	0.0	314.0
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	5052.8	0.0	5052.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	5366.8	0.0	5366.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	1.2
10°-20°	159.9	3.0
20°-30°	269.3	5.0
30°-40°	440.8	8.2
40°-50°	763.3	14.2
50°-60°	1202.3	22.4
60°-70°	1570.1	29.3
70°-80°	808.7	15.1
80°-90°	87.5	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°	5366.8	100.0
0°-180°	5366.8	100.0



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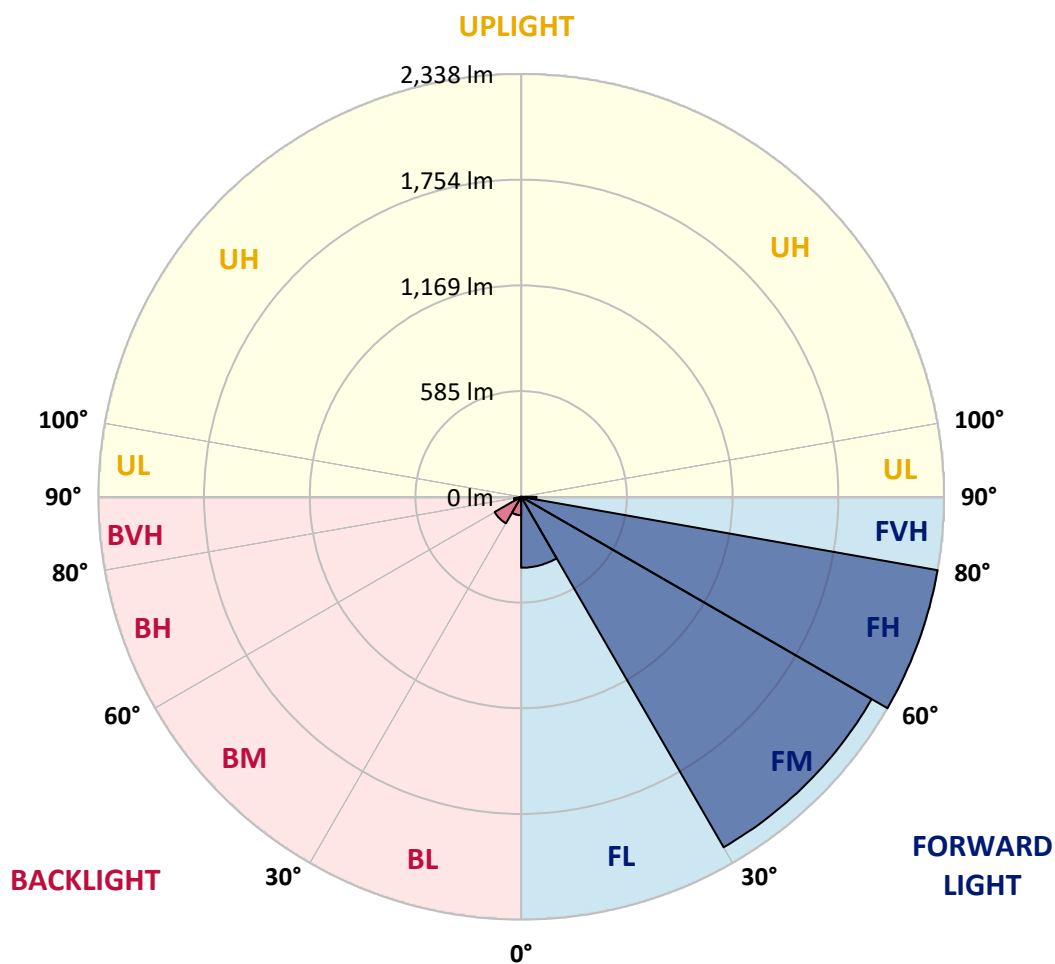
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	392.5	7.3			
FM	(30°-60°)	2237.6	41.7			
FH	(60°-80°)	2338.0	43.6			G2/5000
FVH	(80°-90°)	84.7	1.6			G1/100
BL	(0°-30°)	101.7	1.9	B0/110		
BM	(30°-60°)	168.8	3.1	B0/220		
BH	(60°-80°)	40.8	0.8	B0/110		G0/110
BVH	(80°-90°)	2.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	801.9	801.9	801.9	801.9	801.9	801.9	801.9	801.9	801.9	801.9	801.9
2.5°	880.4	875.6	872.8	868.9	864.1	860.0	858.3	846.5	835.4	820.0	802.5
5°	896.7	895.2	890.0	884.9	879.1	872.8	869.2	855.2	839.2	816.8	786.2
7.5°	898.3	896.4	890.0	883.0	874.9	867.3	861.3	847.2	832.4	809.8	772.5
10°	895.7	893.5	888.8	881.0	871.2	863.8	857.6	844.3	831.9	811.4	769.8
12.5°	892.8	890.7	888.4	884.6	875.9	870.8	865.8	853.0	841.8	824.5	779.1
15°	895.7	894.5	897.0	895.4	890.7	886.2	881.0	869.6	859.4	844.9	796.1
17.5°	907.8	907.8	915.9	916.8	912.4	906.0	898.6	887.0	878.5	866.3	816.1
20°	936.4	935.4	945.5	947.5	936.7	926.7	915.9	901.8	895.2	887.4	836.1
22.5°	985.2	980.7	986.8	984.9	963.4	948.2	934.7	917.4	914.0	910.4	858.0
25°	1048.8	1046.2	1050.4	1031.5	993.8	973.1	957.1	937.6	937.6	941.2	883.0
27.5°	1141.1	1131.5	1117.5	1084.2	1027.7	1001.2	983.9	963.1	968.6	981.7	915.9
30°	1235.6	1225.2	1192.9	1141.8	1068.9	1041.1	1021.0	999.2	1012.1	1036.0	960.0
32.5°	1328.9	1317.1	1271.4	1206.9	1128.0	1100.2	1080.7	1056.7	1078.2	1118.4	1024.6
35°	1419.4	1408.8	1356.1	1280.1	1206.5	1183.6	1165.7	1144.9	1172.4	1228.6	1115.5
37.5°	1520.9	1509.4	1445.2	1362.8	1302.1	1285.4	1272.5	1251.7	1299.5	1381.9	1242.4
40°	1645.9	1626.4	1539.8	1457.6	1412.6	1404.6	1395.7	1392.8	1467.3	1581.3	1411.3
42.5°	1788.9	1757.0	1638.8	1557.7	1534.0	1539.8	1537.5	1550.3	1677.1	1829.2	1617.0
45°	1932.0	1890.8	1749.0	1664.3	1667.6	1687.7	1700.2	1751.2	1940.0	2113.5	1838.5
47.5°	2053.4	2012.9	1854.7	1779.8	1818.0	1857.6	1891.5	1988.3	2210.4	2393.4	2010.7
50°	2157.4	2119.0	1966.8	1906.5	1992.8	2056.7	2111.6	2255.0	2501.1	2606.4	2131.4
52.5°	2242.2	2216.7	2083.1	2051.9	2192.4	2286.0	2366.5	2538.4	2758.5	2779.5	2225.3
55°	2325.0	2306.8	2208.0	2224.6	2426.8	2554.4	2656.3	2839.0	2980.1	2924.0	2315.4
57.5°	2420.2	2403.6	2350.5	2443.8	2735.2	2895.5	3006.7	3105.3	3175.4	3071.6	2400.4
60°	2517.4	2507.7	2509.0	2687.2	3089.1	3243.2	3304.4	3330.0	3367.1	3210.5	2405.2
62.5°	2609.9	2628.1	2690.1	2958.2	3428.0	3546.2	3577.2	3602.5	3559.0	3232.6	2222.2
65°	2766.8	2796.5	2944.4	3320.7	3800.9	3927.4	3959.3	3872.7	3589.3	2947.6	1807.4
67.5°	2843.5	2897.8	3161.6	3658.6	4162.4	4303.0	4291.2	3890.2	3221.1	2247.7	1159.9
69°	2827.5	2885.3	3211.7	3762.3	4282.6	4410.0	4335.0	3675.4	2744.1	1628.3	712.1
70°	2764.3	2822.7	3185.9	3758.4	4297.9	4398.9	4253.9	3409.9	2320.2	1190.6	445.3
72.5°	2308.4	2358.8	2828.4	3397.1	3959.3	3877.2	3558.7	2362.4	1130.5	324.3	100.3
75°	1420.9	1449.0	2029.5	2559.2	2990.4	2779.5	2371.0	1175.3	337.1	91.7	55.6
77.5°	750.7	763.5	1111.0	1508.5	1895.6	1568.5	1215.2	458.5	155.2	57.5	40.2
80°	443.7	453.3	598.3	689.8	820.3	685.3	485.8	281.5	111.1	36.0	35.7
82.5°	253.9	260.0	433.9	383.4	323.3	276.0	241.8	266.7	66.7	24.2	37.0
85°	93.3	94.5	244.0	291.6	192.3	114.4	120.0	221.0	17.9	15.3	29.1
87.5°	43.4	42.5	125.5	178.5	112.4	72.5	93.6	48.5	7.0	10.0	7.9
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°	801.9	801.9	801.9	801.9	801.9	801.9	801.9	801.9	801.9	801.9	801.9
2.5°	792.2	780.4	759.1	737.0	714.7	697.4	680.4	667.0	662.5	654.3	654.9
5°	768.0	746.2	701.6	656.2	608.9	569.9	533.1	503.4	489.1	474.4	474.4
7.5°	746.9	715.2	645.2	571.5	495.2	430.9	373.1	329.6	305.7	286.6	286.3
10°	738.9	696.1	598.3	492.6	386.2	298.8	230.0	186.0	163.3	148.6	147.9
12.5°	742.4	689.4	562.2	419.8	286.3	192.0	133.2	104.8	95.2	90.6	90.6
15°	752.7	687.5	526.2	348.5	202.2	120.0	88.5	80.9	80.2	80.2	80.2
17.5°	765.2	688.2	489.1	279.1	137.6	86.0	76.4	75.4	76.1	76.1	76.1
20°	777.8	688.5	449.2	215.0	97.1	74.8	71.9	71.6	72.2	72.2	72.5
22.5°	793.6	690.0	409.1	160.7	80.2	70.6	68.4	68.4	68.8	68.8	68.4
25°	811.4	693.2	367.6	119.2	73.2	67.7	65.8	65.4	65.8	65.4	65.1
27.5°	833.7	697.7	321.3	93.3	69.9	64.9	63.3	63.3	63.0	62.6	62.3
30°	861.8	702.7	269.4	79.2	66.7	62.3	60.7	60.4	60.1	59.4	59.4
32.5°	904.6	714.0	217.9	71.9	63.3	58.8	57.5	57.5	56.9	56.3	55.9
35°	970.6	736.0	171.9	67.4	59.4	54.9	53.3	53.3	52.7	52.5	52.1
37.5°	1061.6	769.5	133.6	63.3	55.6	50.8	49.1	48.8	48.2	47.6	47.3
40°	1182.6	811.1	105.1	59.4	51.8	46.7	45.4	44.7	43.4	42.5	42.5
42.5°	1334.7	858.3	85.3	55.2	47.3	42.8	41.8	40.9	38.7	37.7	37.3
45°	1493.8	900.9	72.2	50.5	42.8	39.0	38.4	36.7	33.9	32.9	32.9
47.5°	1608.4	910.7	63.6	46.0	38.7	34.9	34.5	31.5	29.1	28.4	28.1
50°	1680.0	891.2	56.6	41.5	34.9	31.0	30.0	26.6	24.9	24.2	23.9
52.5°	1728.3	856.5	50.8	37.7	31.3	27.5	25.2	22.7	21.5	20.8	20.8
55°	1766.9	807.2	45.1	34.2	28.4	24.6	21.5	19.4	18.2	17.6	17.6
57.5°	1777.7	740.4	39.4	31.3	25.5	21.8	18.2	16.9	15.3	15.0	15.0
60°	1698.9	620.0	34.9	27.8	23.1	18.9	16.0	14.4	12.8	12.4	12.1
62.5°	1490.9	479.8	30.7	24.6	20.1	16.3	13.7	11.8	10.5	10.5	10.5
65°	1137.3	321.7	26.9	21.5	17.6	13.7	11.8	9.7	9.0	9.0	9.3
67.5°	680.8	175.1	23.1	18.2	15.0	11.5	10.0	8.3	7.9	8.3	8.3
69°	399.1	102.8	20.8	16.3	13.1	10.3	8.6	7.3	7.9	8.3	8.3
70°	246.3	69.3	19.1	14.6	11.8	9.3	7.9	7.0	7.6	7.9	7.9
72.5°	68.8	35.7	15.3	11.5	9.7	7.6	6.3	6.3	7.3	7.6	7.6
75°	44.7	26.6	11.8	8.6	7.3	6.1	5.5	6.1	7.0	7.3	7.3
77.5°	37.0	21.8	9.7	7.0	6.1	5.8	5.1	5.5	6.3	6.7	6.7
80°	33.9	15.3	7.6	6.3	5.5	5.1	4.8	4.5	5.8	6.1	6.1
82.5°	32.2	12.1	6.7	5.8	5.1	4.5	4.2	4.5	5.1	5.5	5.8
85°	20.1	7.9	6.1	5.5	4.5	4.2	4.2	4.2	4.8	5.1	5.1
87.5°	7.3	6.3	5.5	4.5	3.9	3.9	3.9	3.9	4.2	4.8	4.8
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)