

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: P323006

Luminaire Tested: **GAN-SA2C-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7711 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

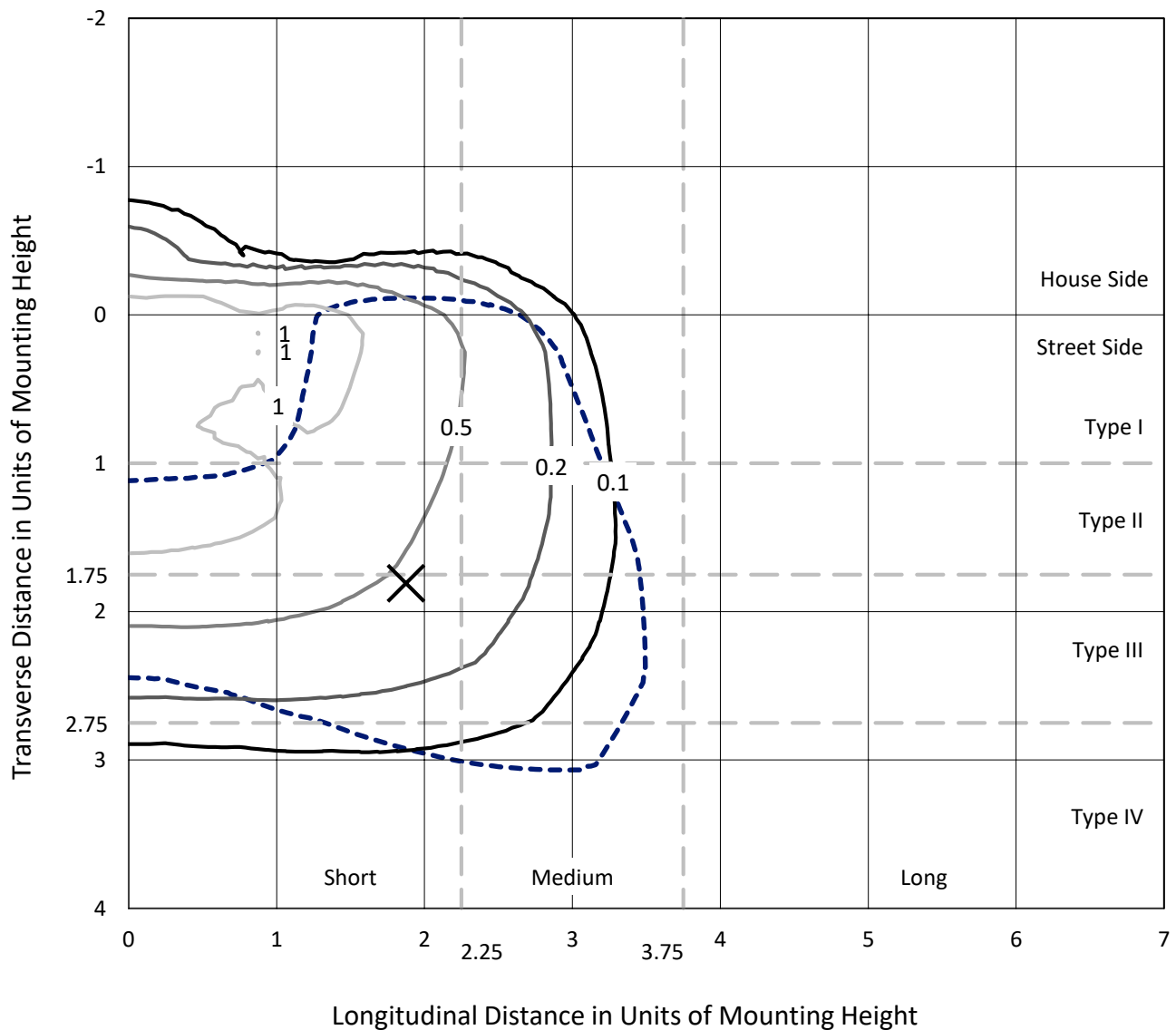
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

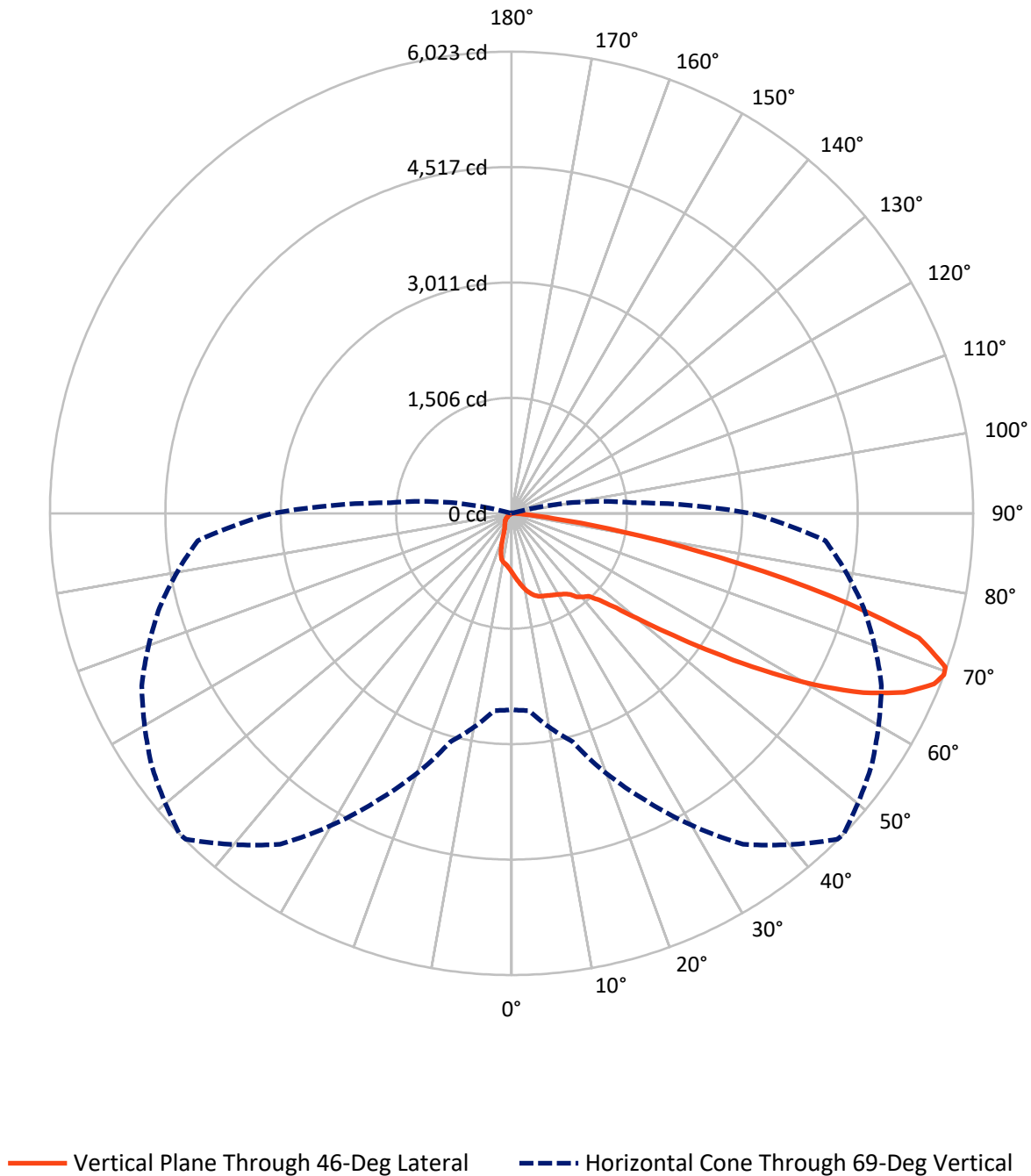
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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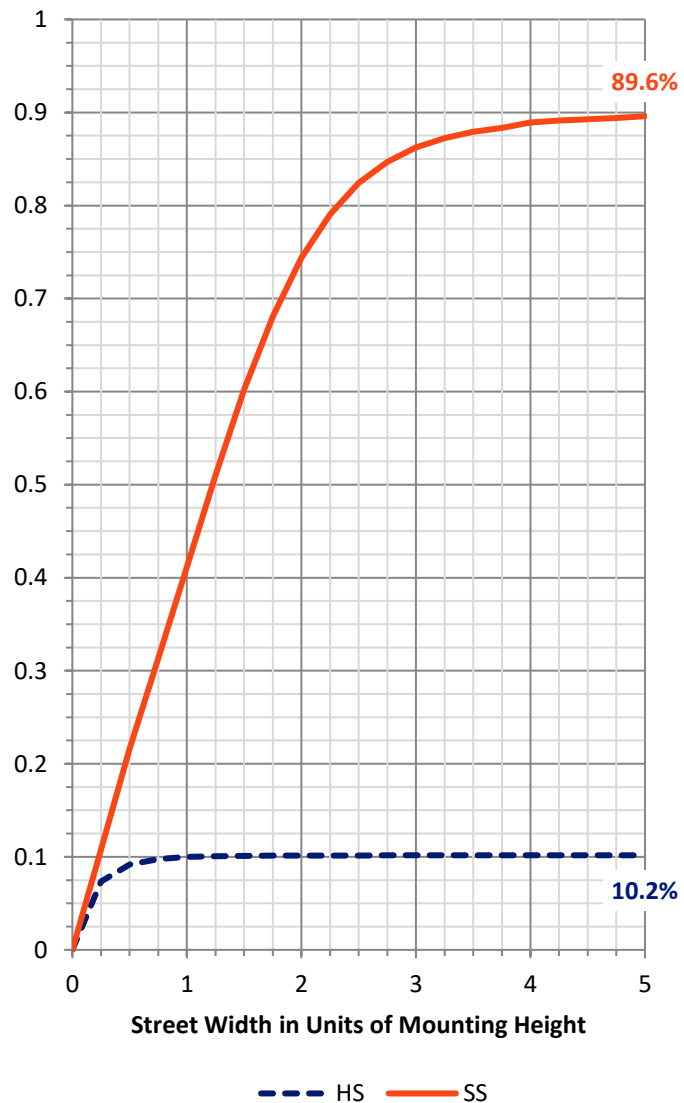
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	791.4	0.0	791.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	6919.7	0.0	6919.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	7711.0	0.0	7711.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	1.0
10°-20°	233.3	3.0
20°-30°	366.9	4.8
30°-40°	526.1	6.8
40°-50°	909.4	11.8
50°-60°	1796.6	23.3
60°-70°	2510.8	32.6
70°-80°	1213.0	15.7
80°-90°	78.0	1.0
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°	7711.0	100.0
0°-180°	7711.0	100.0

Coefficient of Utilization



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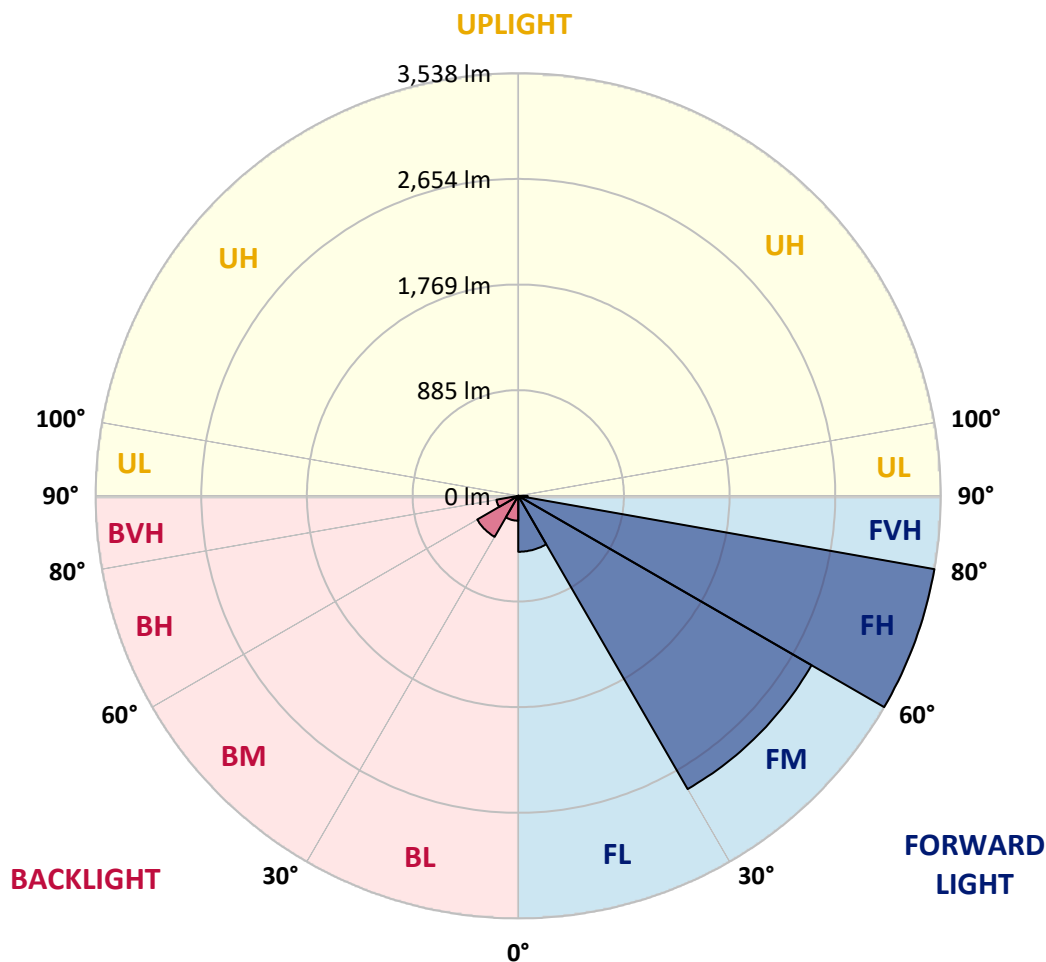
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	468.5	6.1			
FM	(30°-60°)	2835.5	36.8			
FH	(60°-80°)	3538.3	45.9			G2/5000
FVH	(80°-90°)	77.3	1.0			G1/100
BL	(0°-30°)	208.6	2.7	B1/500		
BM	(30°-60°)	396.6	5.1	B1/1000		
BH	(60°-80°)	185.6	2.4	B1/500		G1/500
BVH	(80°-90°)	0.7	0.0			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°	45°	46°	55°	65°	75°	85°
0°	772.6	772.6	772.6	772.6	772.6	772.6	772.6	772.6	772.6	772.6	772.6
2.5°	858.3	857.2	852.2	850.0	837.7	830.5	827.6	818.5	805.5	792.5	778.0
5°	955.9	955.6	946.2	937.1	914.0	892.3	888.3	867.3	838.1	810.6	783.1
7.5°	1055.7	1051.0	1041.6	1024.2	990.6	955.9	952.7	923.0	881.4	841.7	802.3
10°	1140.3	1137.4	1125.1	1098.7	1059.3	1019.9	1015.9	979.4	932.4	883.6	833.4
12.5°	1206.1	1203.9	1187.7	1154.8	1112.8	1072.0	1066.5	1034.0	983.8	929.2	869.9
15°	1246.2	1245.1	1225.3	1190.2	1149.0	1113.5	1108.8	1080.3	1033.6	976.5	909.6
17.5°	1255.6	1256.0	1235.4	1200.0	1166.0	1140.7	1137.0	1115.4	1076.3	1019.5	949.4
20°	1234.7	1239.0	1220.6	1189.8	1168.9	1155.5	1152.6	1139.6	1106.7	1053.2	981.2
22.5°	1205.0	1207.2	1194.5	1173.9	1165.2	1167.8	1166.3	1159.1	1131.3	1082.1	1012.7
25°	1186.9	1186.9	1179.3	1162.0	1167.8	1183.3	1183.7	1182.2	1160.2	1117.5	1051.0
27.5°	1186.2	1184.0	1175.4	1162.4	1178.3	1202.1	1203.6	1213.3	1199.6	1160.5	1098.7
30°	1215.1	1212.6	1194.2	1177.2	1197.4	1223.1	1226.7	1248.0	1241.2	1207.2	1151.9
32.5°	1282.7	1273.7	1232.9	1205.0	1220.2	1250.9	1255.6	1289.6	1300.5	1264.7	1203.2
35°	1375.3	1346.7	1287.8	1257.8	1259.2	1291.4	1295.8	1345.7	1377.8	1317.5	1243.0
37.5°	1502.9	1488.8	1393.0	1312.8	1319.3	1368.1	1380.7	1435.0	1425.9	1346.4	1288.2
40°	1782.8	1760.7	1658.8	1466.8	1376.7	1430.3	1434.2	1463.2	1463.9	1411.8	1382.2
42.5°	2163.8	2154.8	2047.4	1746.2	1489.9	1471.8	1479.1	1527.9	1582.5	1549.9	1548.5
45°	2585.7	2581.0	2467.2	2117.2	1718.8	1608.1	1617.2	1682.6	1787.1	1794.3	1840.2
47.5°	2925.2	2923.1	2857.6	2531.1	2069.1	1839.2	1842.1	1911.5	2095.1	2185.9	2259.3
50°	3234.7	3245.2	3193.5	2979.1	2546.3	2201.1	2194.2	2240.5	2535.5	2684.1	2775.2
52.5°	3664.9	3679.8	3534.8	3397.0	3047.1	2650.1	2644.7	2693.1	3064.8	3176.1	3192.4
55°	4044.9	4019.6	3905.0	3865.2	3657.7	3204.7	3203.3	3245.9	3576.7	3624.1	3654.1
57.5°	4212.7	4202.9	4258.2	4349.3	4297.3	3860.2	3856.9	3824.4	4034.8	4039.9	4132.1
60°	4318.6	4330.5	4500.1	4781.0	4910.8	4565.5	4544.6	4346.1	4472.3	4461.1	4559.8
62.5°	4239.1	4262.6	4567.7	5035.9	5370.0	5181.2	5151.6	4824.0	4846.1	4807.4	4899.2
65°	3816.8	3853.3	4353.3	4987.8	5597.7	5662.5	5632.4	5246.0	5142.9	5079.3	5028.3
67.5°	3099.1	3120.8	3642.9	4569.5	5495.1	5949.5	5943.4	5615.8	5367.1	5033.4	4637.8
69°	2561.2	2582.5	3085.0	4129.2	5269.1	6011.0	6022.9	5734.4	5324.4	4754.3	4109.3
70°	2169.2	2192.0	2660.2	3751.7	5007.0	5982.4	6003.8	5723.2	5202.2	4431.0	3645.4
72.5°	1137.8	1157.3	1637.8	2584.7	4081.8	5493.3	5558.0	5239.5	4409.7	3218.1	2155.5
75°	357.6	368.8	639.6	1351.1	2794.7	4271.2	4286.1	4110.0	3131.3	1770.1	897.7
77.5°	136.3	133.0	212.9	497.8	1412.9	2689.5	2780.3	2568.4	1643.2	625.8	207.2
80°	73.4	73.8	110.6	206.1	604.5	1382.2	1458.8	1244.8	583.9	195.2	47.7
82.5°	31.8	33.3	62.2	109.2	277.7	509.8	548.1	456.3	223.1	131.2	17.7
85°	6.9	7.6	30.0	59.3	113.2	143.2	150.0	147.9	142.1	102.0	6.9
87.5°	0.0	0.0	13.4	21.3	28.6	32.5	28.6	37.2	78.5	68.7	3.6
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°	772.6	772.6	772.6	772.6	772.6	772.6	772.6	772.6	772.6	772.6	772.6
2.5°	773.3	766.8	755.6	743.3	734.7	725.6	718.4	715.1	711.5	709.0	712.2
5°	771.9	759.2	737.5	716.6	701.4	689.1	679.0	675.0	671.0	668.1	667.8
7.5°	784.5	766.8	733.6	702.8	679.3	662.7	649.0	643.2	638.5	636.3	634.5
10°	808.8	786.0	741.5	701.4	671.0	642.8	613.2	590.4	575.6	568.7	566.2
12.5°	840.2	811.7	756.7	709.0	664.9	610.6	547.7	493.5	458.4	446.9	440.0
15°	877.1	841.7	776.6	718.7	642.5	543.4	436.7	365.9	333.3	326.8	319.6
17.5°	912.5	873.5	800.5	720.6	593.3	434.2	320.0	271.9	259.2	263.6	264.6
20°	943.6	904.9	824.0	704.6	504.0	325.7	247.7	235.7	240.4	248.7	250.2
22.5°	975.1	935.3	845.6	662.7	389.7	247.3	223.1	226.0	230.7	239.0	240.4
25°	1013.4	972.2	865.9	585.7	292.5	210.4	211.9	216.2	220.9	228.5	229.2
27.5°	1057.5	1018.8	879.3	485.5	216.9	193.4	198.1	204.6	209.3	216.6	218.0
30°	1116.1	1080.3	883.6	381.8	181.9	178.2	180.4	188.4	195.2	201.7	202.8
32.5°	1171.0	1141.0	869.1	288.1	168.5	164.1	164.1	168.8	176.8	182.9	184.4
35°	1221.6	1202.1	822.9	210.8	158.4	151.1	147.5	147.5	152.6	157.6	159.1
37.5°	1288.5	1287.8	748.0	168.1	148.6	140.3	132.7	126.9	125.1	126.2	126.9
40°	1403.1	1404.2	650.4	150.8	140.3	129.1	117.5	107.0	97.3	94.0	93.6
42.5°	1582.1	1565.8	548.1	142.4	133.0	117.5	100.1	86.0	70.9	66.2	65.8
45°	1866.3	1769.7	439.6	134.9	125.5	104.5	82.8	63.6	51.3	47.7	47.7
47.5°	2280.2	2037.6	340.6	126.5	115.3	89.7	62.5	45.9	37.6	35.8	36.2
50°	2708.3	2300.1	261.0	116.1	103.0	74.1	46.3	33.3	28.6	28.6	28.9
52.5°	3087.9	2492.5	203.5	104.8	87.9	58.2	35.1	26.0	23.9	23.5	23.9
55°	3443.3	2616.5	155.8	91.8	69.8	43.4	26.8	21.3	19.9	19.2	18.8
57.5°	3786.1	2677.9	116.8	74.1	50.6	31.5	21.3	18.1	16.6	15.5	15.2
60°	4014.2	2628.0	80.3	54.6	35.1	22.8	17.7	15.5	13.7	12.7	12.3
62.5°	4142.9	2491.7	51.7	39.4	24.9	17.0	14.1	13.0	10.5	9.4	9.4
65°	4090.8	2266.9	36.2	28.2	18.1	12.7	10.5	10.5	7.6	6.1	5.8
67.5°	3625.2	1915.1	27.5	21.0	13.0	9.4	8.0	9.0	4.7	2.9	2.9
69°	3119.0	1587.2	23.5	17.4	10.8	7.6	6.9	8.3	3.3	2.2	1.8
70°	2710.8	1369.2	21.3	15.2	9.0	6.5	6.1	8.0	3.3	1.8	1.4
72.5°	1621.9	763.6	16.3	10.8	5.8	5.1	5.1	9.0	3.3	1.8	1.4
75°	655.5	269.0	11.9	7.6	4.3	4.3	6.1	11.6	2.9	1.4	1.1
77.5°	148.6	58.9	6.9	4.7	2.9	4.3	7.2	9.0	1.8	0.7	0.0
80°	36.2	14.5	4.3	2.9	1.8	3.3	5.4	5.1	0.4	0.0	0.0
82.5°	11.9	5.1	1.8	1.4	0.4	1.1	2.5	1.4	0.0	0.0	0.0
85°	5.1	2.9	0.7	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0
87.5°	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)