

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: P322796

Luminaire Tested: **GAN-SA2B-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322796
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-SA2B-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA 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: 7088 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

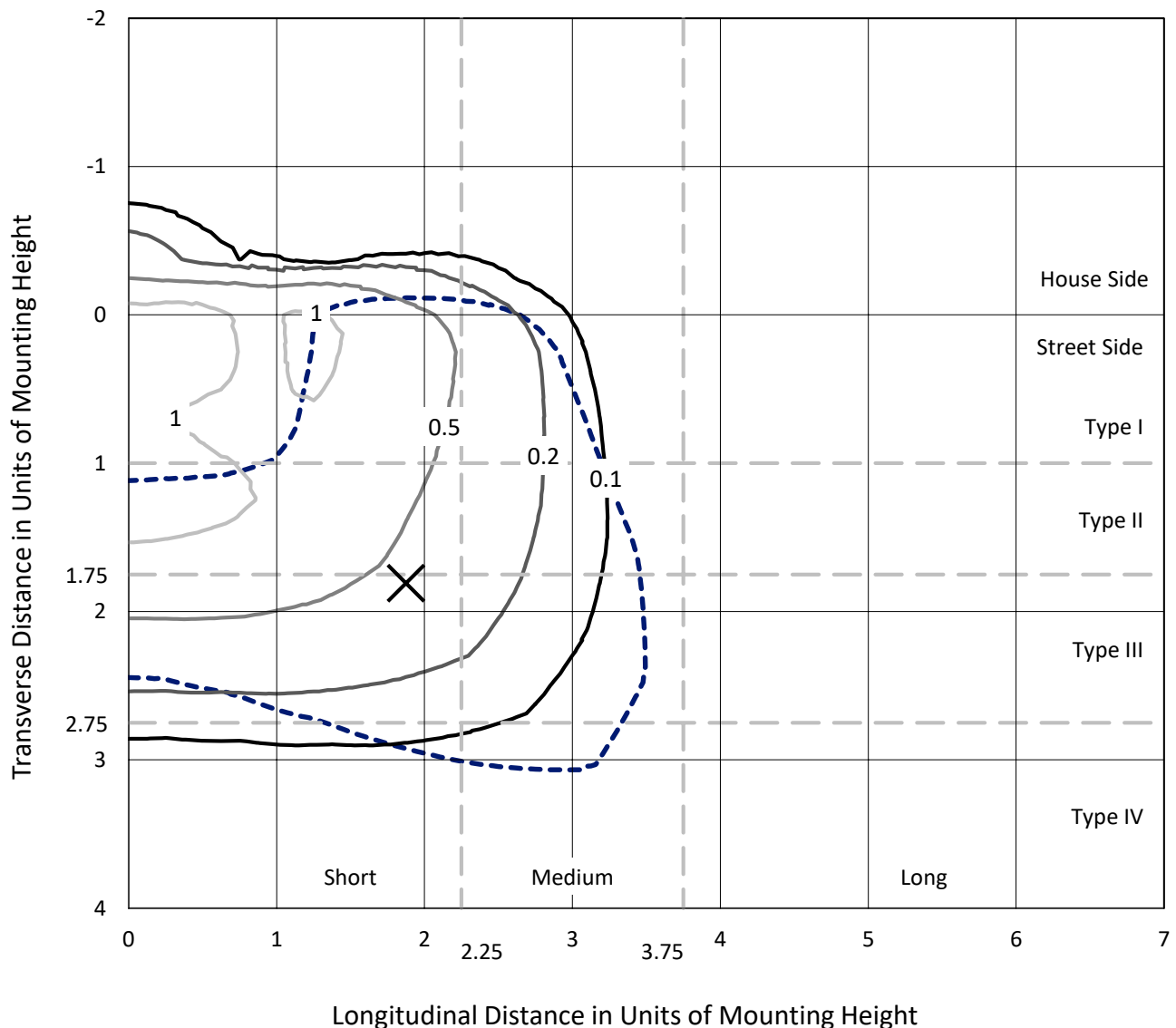
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

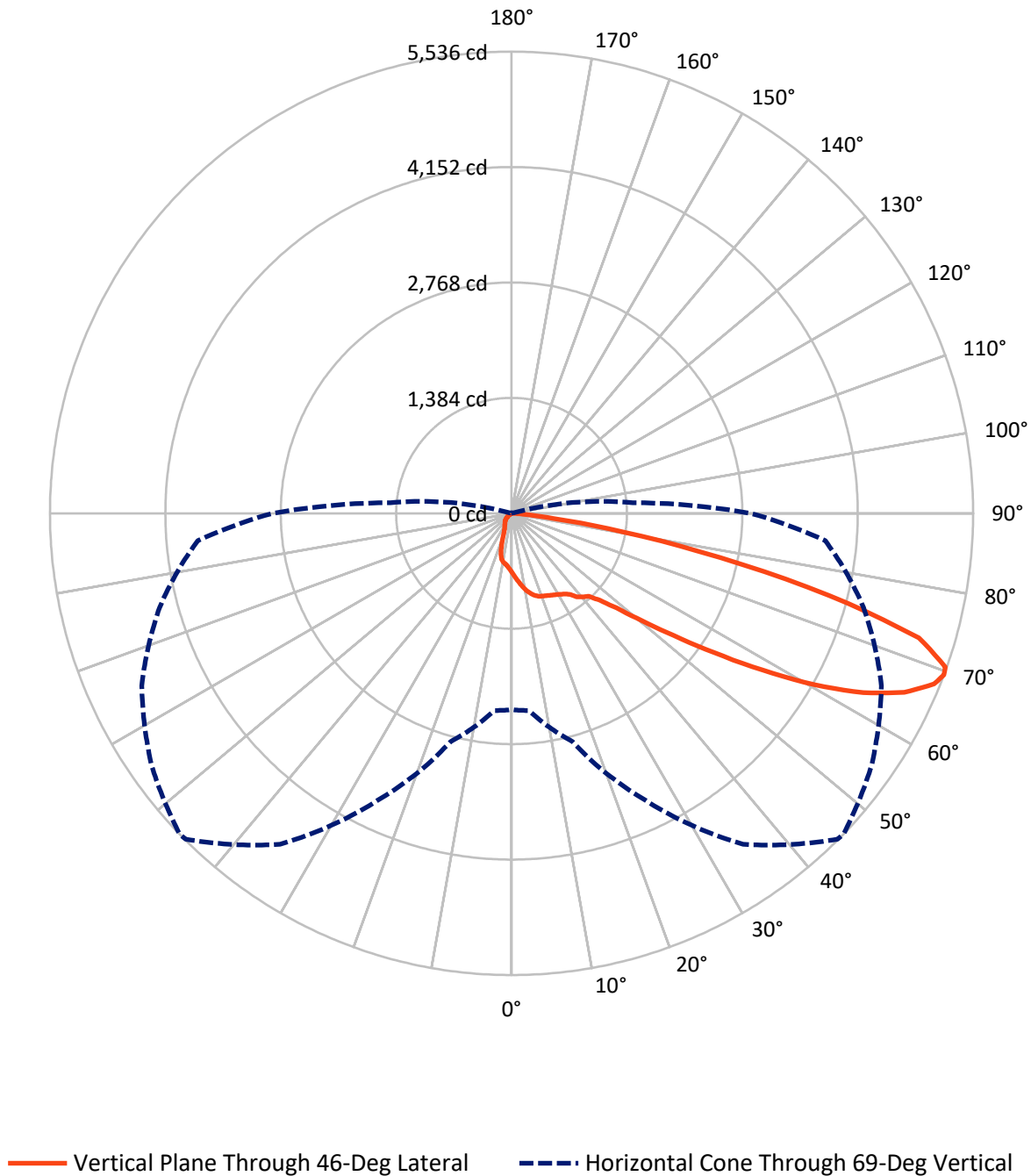
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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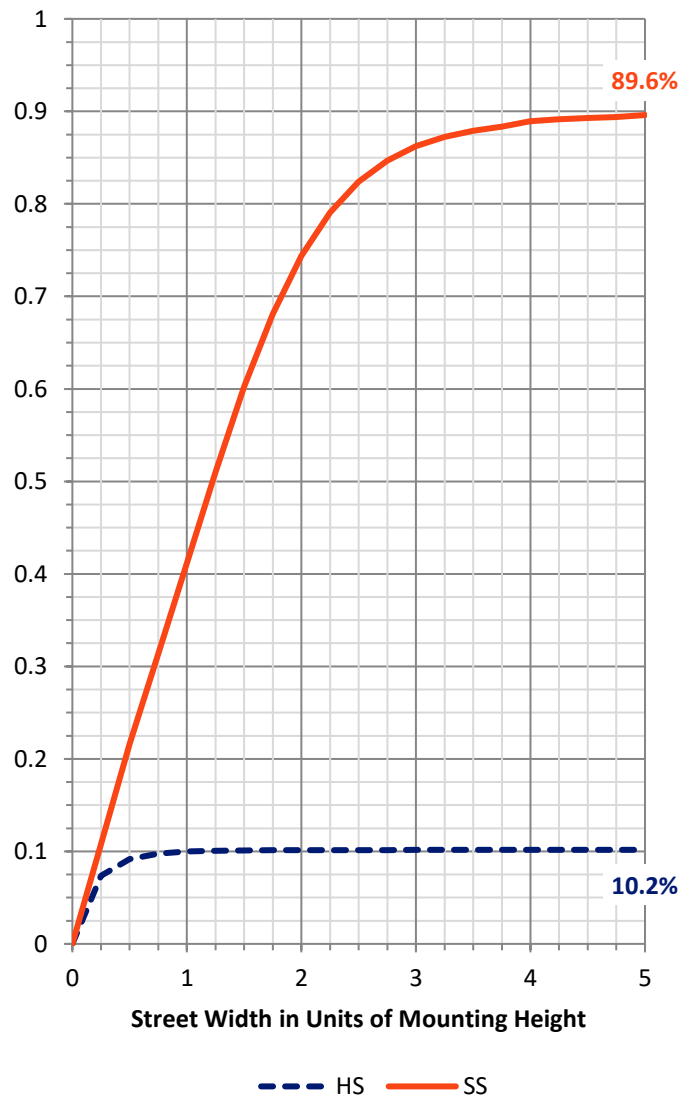
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	727.4	0.0	727.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	6360.6	0.0	6360.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	7088.0	0.0	7088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	1.0
10°-20°	214.5	3.0
20°-30°	337.3	4.8
30°-40°	483.6	6.8
40°-50°	835.9	11.8
50°-60°	1651.4	23.3
60°-70°	2308.0	32.6
70°-80°	1115.0	15.7
80°-90°	71.7	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°	7088.0	100.0
0°-180°	7088.0	100.0

Coefficient of Utilization



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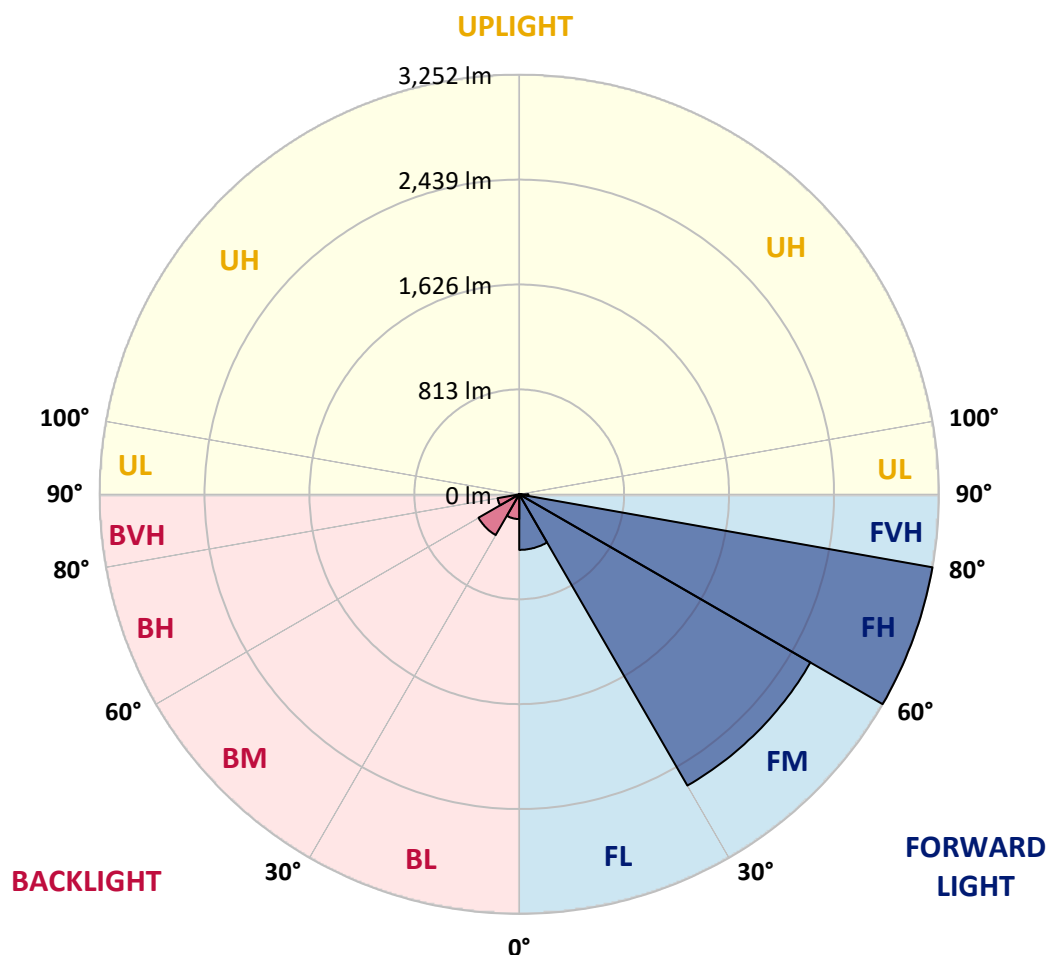
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	430.7	6.1			
FM	(30°-60°)	2606.4	36.8			
FH	(60°-80°)	3252.4	45.9			G2/5000
FVH	(80°-90°)	71.1	1.0			G1/100
BL	(0°-30°)	191.7	2.7	B1/500		
BM	(30°-60°)	364.5	5.1	B1/1000		
BH	(60°-80°)	170.6	2.4	B1/500		G1/500
BVH	(80°-90°)	0.6	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°	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2
2.5°	789.0	788.0	783.3	781.3	770.0	763.4	760.7	752.4	740.4	728.5	715.2
5°	878.7	878.4	869.7	861.4	840.1	820.2	816.5	797.3	770.3	745.1	719.8
7.5°	970.4	966.1	957.4	941.5	910.6	878.7	875.7	848.4	810.2	773.7	737.4
10°	1048.2	1045.5	1034.2	1010.0	973.7	937.5	933.8	900.3	857.1	812.2	766.0
12.5°	1108.7	1106.7	1091.7	1061.5	1022.9	985.4	980.4	950.5	904.3	854.1	799.6
15°	1145.5	1144.5	1126.3	1094.0	1056.1	1023.6	1019.3	993.0	950.1	897.6	836.1
17.5°	1154.2	1154.5	1135.6	1103.0	1071.8	1048.5	1045.2	1025.2	989.3	937.2	872.7
20°	1134.9	1138.9	1121.9	1093.7	1074.4	1062.1	1059.5	1047.5	1017.3	968.1	901.9
22.5°	1107.7	1109.7	1098.0	1079.1	1071.1	1073.4	1072.1	1065.5	1039.9	994.7	930.9
25°	1091.0	1091.0	1084.1	1068.1	1073.4	1087.7	1088.1	1086.7	1066.4	1027.2	966.1
27.5°	1090.4	1088.4	1080.4	1068.4	1083.1	1105.0	1106.3	1115.3	1102.7	1066.8	1010.0
30°	1117.0	1114.6	1097.7	1082.1	1100.7	1124.3	1127.6	1147.2	1140.9	1109.7	1058.8
32.5°	1179.1	1170.8	1133.2	1107.7	1121.6	1149.9	1154.2	1185.4	1195.4	1162.5	1106.0
35°	1264.2	1237.9	1183.8	1156.2	1157.5	1187.1	1191.1	1236.9	1266.5	1211.0	1142.6
37.5°	1381.5	1368.5	1280.5	1206.7	1212.7	1257.5	1269.2	1319.0	1310.7	1237.6	1184.1
40°	1638.7	1618.5	1524.7	1348.3	1265.5	1314.7	1318.4	1344.9	1345.6	1297.8	1270.5
42.5°	1989.0	1980.7	1882.0	1605.2	1369.5	1352.9	1359.6	1404.4	1454.6	1424.7	1423.4
45°	2376.8	2372.5	2267.8	1946.1	1579.9	1478.2	1486.5	1546.7	1642.7	1649.4	1691.6
47.5°	2688.9	2686.9	2626.7	2326.6	1901.9	1690.6	1693.2	1757.0	1925.9	2009.3	2076.7
50°	2973.4	2983.0	2935.5	2738.4	2340.6	2023.2	2016.9	2059.5	2330.6	2467.2	2551.0
52.5°	3368.8	3382.5	3249.2	3122.6	2800.9	2436.0	2431.0	2475.5	2817.2	2919.5	2934.5
55°	3718.1	3694.9	3589.5	3552.9	3362.2	2945.8	2944.5	2983.7	3287.7	3331.3	3358.9
57.5°	3872.3	3863.3	3914.2	3997.9	3950.1	3548.3	3545.3	3515.4	3708.8	3713.5	3798.2
60°	3969.7	3980.7	4136.5	4394.7	4514.1	4196.7	4177.4	3994.9	4110.9	4100.6	4191.4
62.5°	3896.6	3918.2	4198.7	4629.0	4936.1	4762.6	4735.4	4434.3	4454.6	4419.0	4503.4
65°	3508.4	3542.0	4001.6	4584.8	5145.5	5205.0	5177.4	4822.1	4727.4	4668.9	4622.1
67.5°	2848.7	2868.7	3348.6	4200.3	5051.1	5468.8	5463.2	5162.1	4933.5	4626.7	4263.1
69°	2354.2	2373.8	2835.8	3795.6	4843.4	5525.3	5536.3	5271.1	4894.2	4370.2	3777.3
70°	1994.0	2014.9	2445.3	3448.6	4602.5	5499.1	5518.7	5260.8	4781.9	4073.0	3350.9
72.5°	1045.8	1063.8	1505.5	2375.8	3752.0	5049.4	5108.9	4816.1	4053.4	2958.1	1981.4
75°	328.7	339.0	587.9	1241.9	2568.9	3926.2	3939.8	3777.9	2878.3	1627.1	825.2
77.5°	125.3	122.3	195.7	457.6	1298.7	2472.2	2555.6	2360.9	1510.4	575.3	190.4
80°	67.5	67.8	101.7	189.4	555.7	1270.5	1341.0	1144.2	536.7	179.5	43.9
82.5°	29.2	30.6	57.2	100.4	255.2	468.6	503.8	419.4	205.0	120.6	16.3
85°	6.3	7.0	27.6	54.5	104.0	131.6	137.9	135.9	130.6	93.7	6.3
87.5°	0.0	0.0	12.3	19.6	26.3	29.9	26.3	34.2	72.1	63.1	3.3
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°	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2
2.5°	710.9	704.9	694.6	683.3	675.3	667.0	660.3	657.4	654.0	651.7	654.7
5°	709.5	697.9	678.0	658.7	644.7	633.4	624.1	620.5	616.8	614.1	613.8
7.5°	721.2	704.9	674.3	646.1	624.4	609.2	596.5	591.2	586.9	584.9	583.2
10°	743.4	722.5	681.6	644.7	616.8	590.9	563.6	542.7	529.1	522.8	520.4
12.5°	772.3	746.1	695.6	651.7	611.2	561.3	503.5	453.6	421.4	410.8	404.4
15°	806.2	773.7	713.8	660.7	590.6	499.5	401.5	336.3	306.4	300.4	293.8
17.5°	838.8	802.9	735.8	662.3	545.4	399.1	294.1	249.9	238.3	242.3	243.3
20°	867.4	831.8	757.4	647.7	463.3	299.4	227.6	216.7	221.0	228.6	230.0
22.5°	896.3	859.7	777.3	609.2	358.3	227.3	205.0	207.7	212.0	219.7	221.0
25°	931.5	893.6	795.9	538.4	268.9	193.4	194.7	198.7	203.1	210.0	210.7
27.5°	972.1	936.5	808.2	446.3	199.4	177.8	182.1	188.1	192.4	199.1	200.4
30°	1025.9	993.0	812.2	350.9	167.2	163.8	165.8	173.1	179.5	185.4	186.4
32.5°	1076.4	1048.8	798.9	264.9	154.9	150.9	150.9	155.2	162.5	168.2	169.5
35°	1122.9	1105.0	756.4	193.7	145.6	138.9	135.6	135.6	140.2	144.9	146.2
37.5°	1184.4	1183.8	687.6	154.5	136.6	128.9	122.0	116.6	115.0	116.0	116.6
40°	1289.8	1290.8	597.9	138.6	128.9	118.6	108.0	98.4	89.4	86.4	86.1
42.5°	1454.3	1439.3	503.8	130.9	122.3	108.0	92.1	79.1	65.1	60.8	60.5
45°	1715.5	1626.8	404.1	124.0	115.3	96.0	76.1	58.5	47.2	43.9	43.9
47.5°	2096.0	1873.0	313.1	116.3	106.0	82.4	57.5	42.2	34.6	32.9	33.2
50°	2489.5	2114.3	239.9	106.7	94.7	68.1	42.5	30.6	26.3	26.3	26.6
52.5°	2838.4	2291.1	187.1	96.4	80.8	53.5	32.2	23.9	21.9	21.6	21.9
55°	3165.1	2405.1	143.2	84.4	64.1	39.9	24.6	19.6	18.3	17.6	17.3
57.5°	3480.2	2461.6	107.3	68.1	46.5	28.9	19.6	16.6	15.3	14.3	14.0
60°	3689.9	2415.7	73.8	50.2	32.2	20.9	16.3	14.3	12.6	11.6	11.3
62.5°	3808.2	2290.4	47.5	36.2	22.9	15.6	13.0	12.0	9.6	8.6	8.6
65°	3760.3	2083.7	33.2	25.9	16.6	11.6	9.6	9.6	7.0	5.6	5.3
67.5°	3332.3	1760.4	25.3	19.3	12.0	8.6	7.3	8.3	4.3	2.7	2.7
69°	2867.0	1458.9	21.6	16.0	10.0	7.0	6.3	7.6	3.0	2.0	1.7
70°	2491.8	1258.5	19.6	14.0	8.3	6.0	5.6	7.3	3.0	1.7	1.3
72.5°	1490.8	701.9	15.0	10.0	5.3	4.7	4.7	8.3	3.0	1.7	1.3
75°	602.5	247.3	11.0	7.0	4.0	4.0	5.6	10.6	2.7	1.3	1.0
77.5°	136.6	54.2	6.3	4.3	2.7	4.0	6.6	8.3	1.7	0.7	0.0
80°	33.2	13.3	4.0	2.7	1.7	3.0	5.0	4.7	0.3	0.0	0.0
82.5°	11.0	4.7	1.7	1.3	0.3	1.0	2.3	1.3	0.0	0.0	0.0
85°	4.7	2.7	0.7	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0
87.5°	3.0	1.0	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)