

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: P322386

Luminaire Tested: **GAN-SA2A-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5522 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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



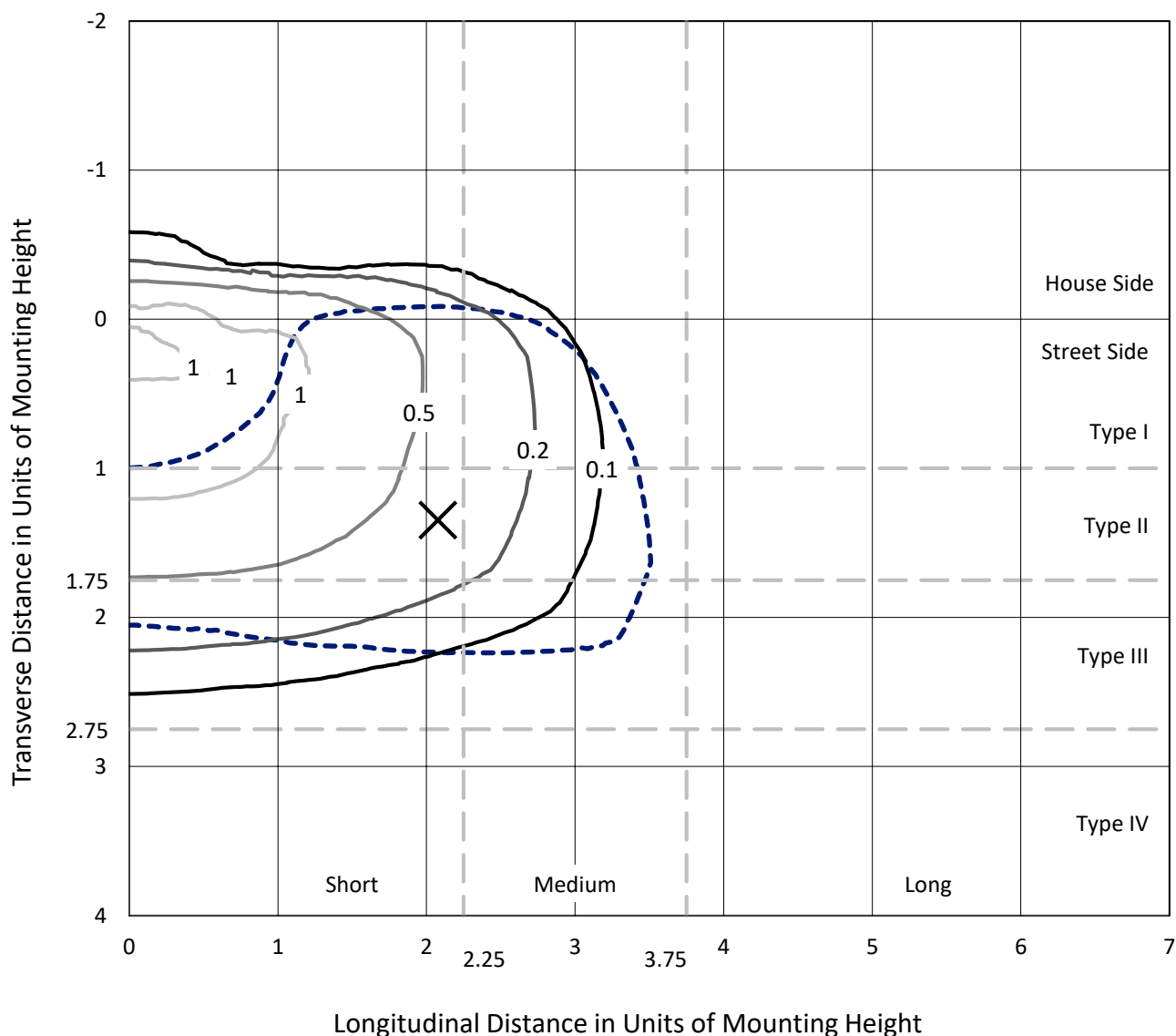
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

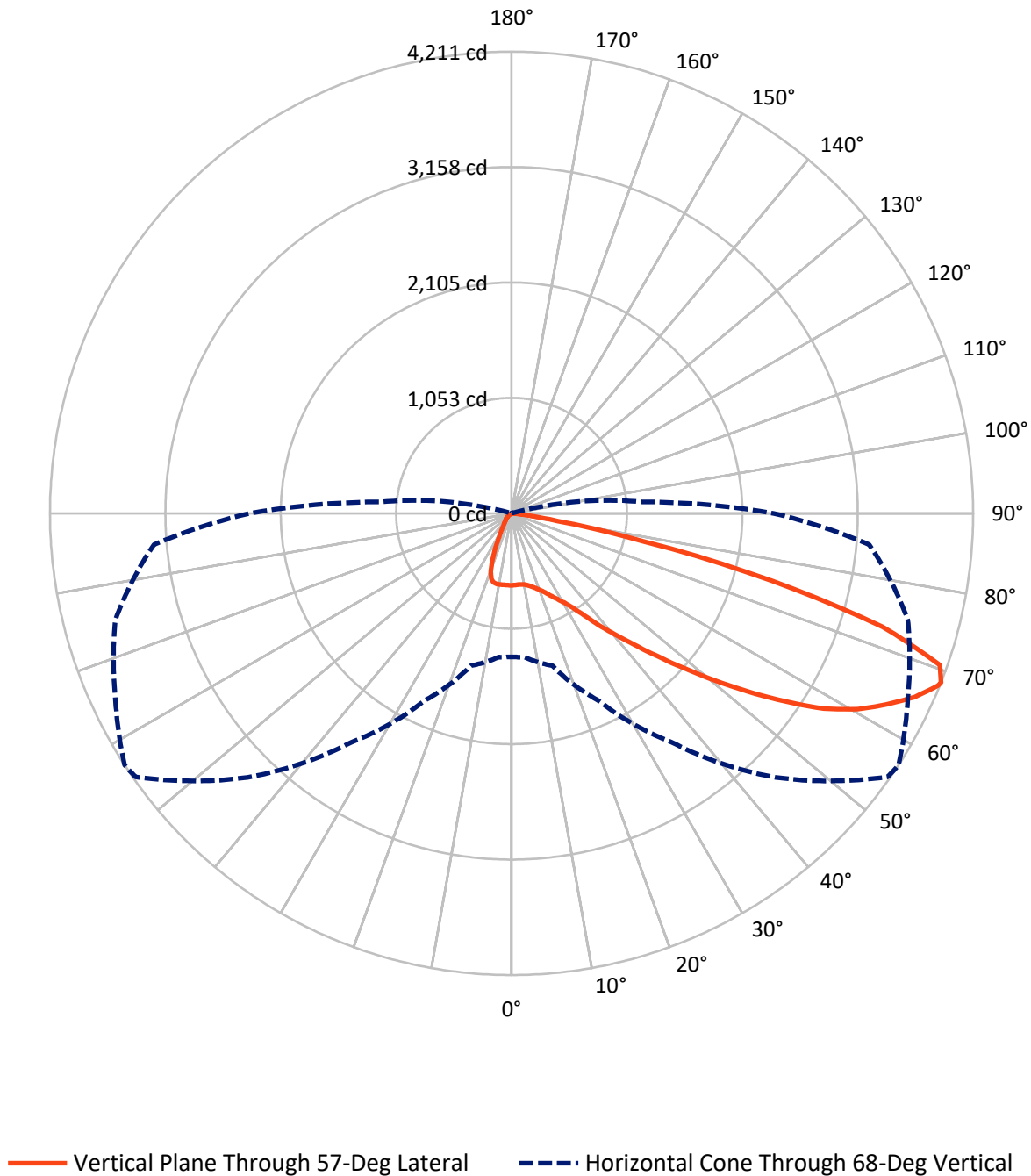
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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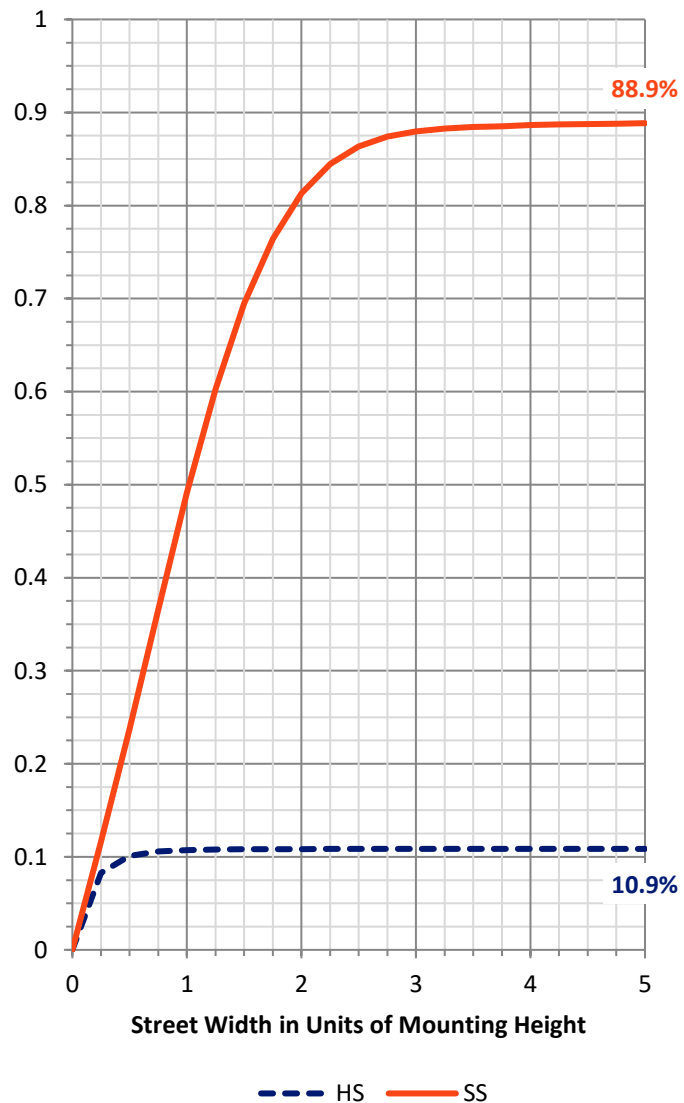
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	605.5	0.0	605.5
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	4916.5	0.0	4916.5
	% Fixture	89.0	0.0	89.0
Total	Lumens	5522.0	0.0	5522.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	1.1
10°-20°	170.2	3.1
20°-30°	293.5	5.3
30°-40°	506.7	9.2
40°-50°	866.6	15.7
50°-60°	1386.5	25.1
60°-70°	1602.0	29.0
70°-80°	612.1	11.1
80°-90°	22.9	0.4
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°	5522.0	100.0
0°-180°	5522.0	100.0

Coefficient of Utilization



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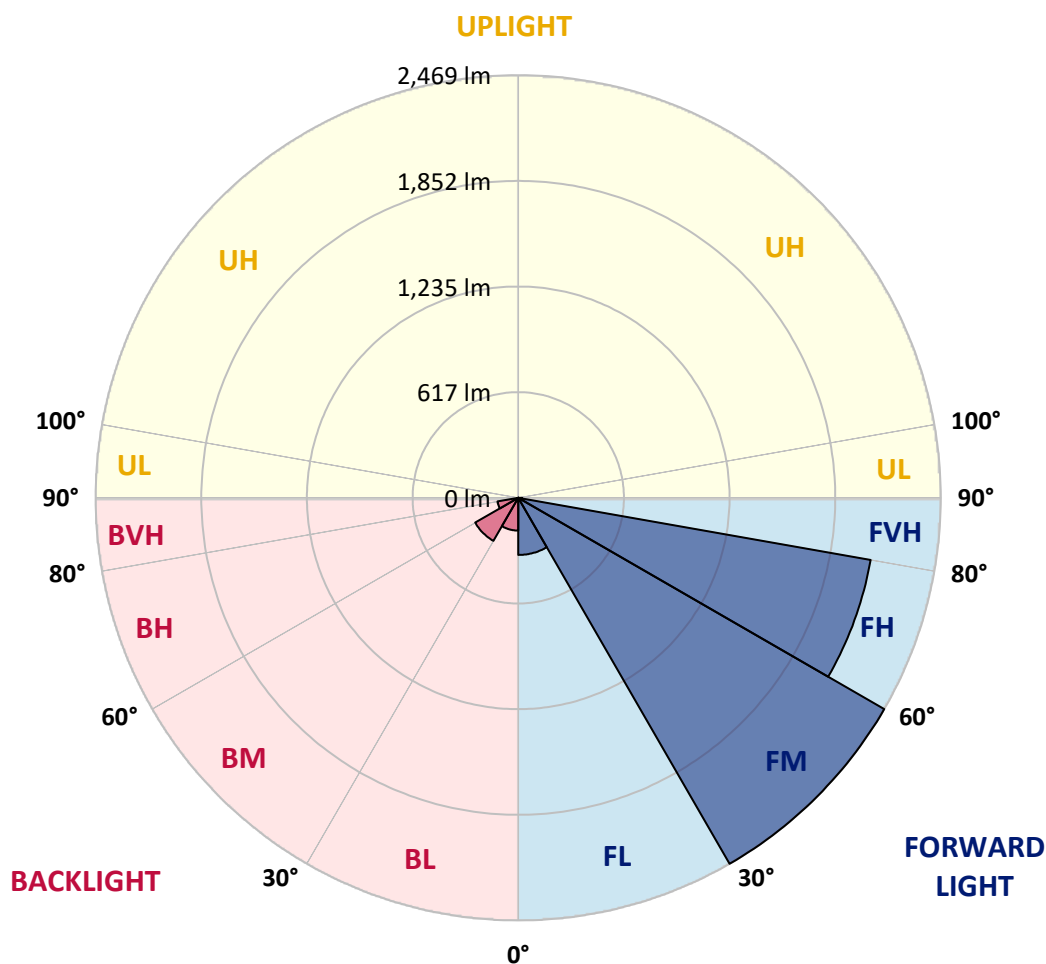
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	333.8	6.0			
FM	(30°-60°)	2469.4	44.7			
FH	(60°-80°)	2090.8	37.9			G2/5000
FVH	(80°-90°)	22.5	0.4			G1/100
BL	(0°-30°)	191.4	3.5	B1/500		
BM	(30°-60°)	290.4	5.3	B1/1000		
BH	(60°-80°)	123.3	2.2	B1/500		G1/500
BVH	(80°-90°)	0.4	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	656.2	656.2	656.2	656.2	656.2	656.2	656.2	656.2	656.2	656.2	656.2
2.5°	640.8	643.6	645.7	647.0	648.6	652.0	653.0	654.6	655.4	655.4	657.2
5°	615.4	618.6	623.0	626.7	634.0	643.4	650.2	652.8	657.5	661.6	664.0
7.5°	591.9	595.6	600.8	609.4	622.0	637.1	651.2	654.9	664.0	672.9	677.3
10°	576.8	579.7	586.4	598.7	615.2	636.3	656.2	660.6	676.3	691.1	699.5
12.5°	571.6	574.2	581.2	595.1	615.4	640.2	667.6	674.2	697.2	718.8	730.6
15°	579.1	579.7	587.2	600.3	620.4	649.9	686.7	694.5	723.5	751.7	766.3
17.5°	608.4	606.0	609.9	615.7	631.6	662.7	706.8	718.6	757.2	790.4	804.2
20°	681.5	681.5	672.6	656.9	657.2	682.5	734.0	747.3	794.5	832.9	845.5
22.5°	806.6	804.2	786.5	748.1	712.8	716.7	767.1	784.4	839.5	880.4	884.6
25°	957.0	954.1	926.7	872.6	811.5	772.1	812.0	831.9	893.0	929.3	920.7
27.5°	1116.2	1113.9	1086.7	1019.6	932.7	860.3	865.6	884.4	947.6	983.3	955.9
30°	1270.5	1271.3	1244.4	1175.5	1077.1	972.9	933.5	944.4	1000.6	1036.9	997.7
32.5°	1417.3	1418.3	1395.1	1318.1	1226.2	1103.7	1027.5	1024.6	1062.2	1098.0	1053.0
35°	1548.1	1550.7	1534.8	1475.0	1377.6	1249.4	1149.4	1142.6	1149.6	1190.1	1137.9
37.5°	1674.2	1675.8	1663.8	1613.4	1531.9	1409.4	1303.4	1293.8	1278.6	1309.7	1249.9
40°	1812.3	1808.4	1794.6	1748.9	1678.9	1586.2	1469.0	1452.3	1425.9	1453.6	1397.2
42.5°	1940.8	1936.4	1938.7	1887.0	1828.0	1767.9	1661.9	1633.2	1617.8	1649.7	1577.9
45°	2101.4	2099.0	2106.9	2062.0	2014.2	1970.6	1883.1	1851.8	1845.0	1882.3	1796.4
47.5°	2259.9	2265.6	2289.9	2270.8	2251.5	2213.1	2117.3	2103.2	2107.4	2152.6	2027.0
50°	2392.0	2398.8	2465.4	2487.3	2515.2	2492.8	2396.7	2388.1	2404.5	2445.3	2275.0
52.5°	2487.6	2501.4	2584.2	2685.2	2787.0	2802.2	2706.4	2698.5	2720.7	2727.0	2466.7
55°	2553.9	2566.1	2659.9	2844.7	3052.1	3117.3	3057.8	3027.5	3023.3	2961.5	2668.2
57.5°	2565.6	2564.3	2699.1	2947.9	3259.9	3428.3	3390.7	3361.0	3275.3	3178.2	2899.3
60°	2499.3	2506.9	2663.3	2983.7	3390.5	3663.6	3666.4	3627.8	3494.4	3388.9	3123.3
62.5°	2295.1	2325.9	2483.9	2889.9	3388.9	3758.4	3868.5	3839.0	3679.5	3561.5	3350.5
65°	1964.0	1975.0	2125.7	2568.8	3159.9	3718.7	4050.5	4039.6	3846.4	3729.1	3467.2
67.5°	1434.3	1410.5	1568.7	2022.8	2675.3	3487.3	4181.1	4194.9	3975.1	3763.6	3342.9
68°	1308.9	1316.0	1439.2	1887.8	2548.4	3405.6	4189.7	4210.9	3987.9	3741.1	3275.1
70°	780.2	793.8	903.7	1299.8	1938.7	2943.2	4096.8	4145.1	3911.6	3509.5	2832.7
72.5°	199.2	215.4	319.3	581.7	1107.4	2073.7	3458.3	3540.1	3396.2	2847.1	1912.3
75°	82.0	86.2	114.1	191.7	412.5	934.2	2279.5	2454.4	2354.4	1704.5	864.3
77.5°	56.7	59.5	73.4	106.3	178.6	316.7	1117.5	1243.9	1120.7	581.7	188.5
80°	40.7	43.1	52.5	70.8	102.6	113.1	364.2	421.2	334.5	127.7	46.7
82.5°	24.3	26.1	39.2	50.4	62.4	54.0	90.6	102.9	96.9	63.4	20.9
85°	12.0	14.1	26.4	36.0	33.7	22.7	27.7	30.8	38.1	38.6	11.2
87.5°	0.8	1.6	15.4	21.7	9.4	5.2	8.1	9.9	13.6	19.1	4.7
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°	656.2	656.2	656.2	656.2	656.2	656.2	656.2	656.2	656.2	656.2	656.2
2.5°	658.0	658.2	656.4	655.6	656.2	653.0	651.7	652.2	652.2	653.0	651.7
5°	664.5	664.5	661.4	657.2	654.9	648.8	644.9	643.9	643.1	642.6	641.5
7.5°	678.6	677.0	671.6	662.4	654.6	641.5	631.6	626.4	623.8	622.7	622.0
10°	701.3	698.5	689.3	672.3	654.3	631.1	609.4	594.0	581.2	576.0	572.9
12.5°	731.9	727.7	712.3	684.1	652.5	609.7	562.7	517.5	475.5	458.2	449.6
15°	767.1	761.1	736.8	694.0	641.8	561.4	459.3	380.2	321.9	300.0	290.6
17.5°	802.9	795.1	758.3	700.3	609.7	461.4	322.2	243.4	204.4	194.0	190.3
20°	838.9	827.4	776.8	695.6	537.1	332.6	212.5	177.8	166.6	163.5	162.4
22.5°	873.1	855.4	793.5	677.3	425.3	223.2	168.2	157.2	153.5	151.7	151.2
25°	902.9	878.1	808.1	620.9	301.1	168.7	151.4	147.8	143.1	139.7	140.0
27.5°	930.8	900.8	817.0	528.0	200.8	144.1	140.2	135.3	126.6	121.7	121.7
30°	964.5	931.1	823.5	406.3	147.8	127.4	124.3	116.7	105.0	98.4	98.4
32.5°	1015.2	977.1	819.4	285.1	122.5	112.0	104.7	94.3	81.5	75.2	74.9
35°	1092.7	1048.1	789.6	187.0	108.1	97.4	85.6	72.8	61.6	56.4	56.1
37.5°	1197.2	1143.1	722.7	133.7	96.9	83.8	69.7	55.6	47.3	43.9	43.6
40°	1332.7	1253.6	627.2	108.4	86.4	70.8	53.8	43.1	37.3	34.7	35.0
42.5°	1495.4	1371.9	512.6	93.5	76.2	58.2	42.0	33.9	30.3	28.5	27.9
45°	1676.0	1488.6	392.4	83.3	66.1	47.0	32.9	26.9	24.0	23.0	23.0
47.5°	1874.7	1602.1	287.2	74.4	55.1	36.3	26.4	21.9	19.6	18.8	18.5
50°	2055.2	1681.0	207.1	65.0	45.2	28.7	21.4	18.3	16.7	15.7	15.7
52.5°	2205.6	1705.8	152.5	54.8	36.6	23.0	17.8	15.7	14.1	13.3	13.3
55°	2337.9	1695.6	113.3	45.2	29.5	18.8	15.1	13.3	12.0	11.2	11.2
57.5°	2464.8	1662.7	84.6	36.8	23.8	15.1	12.8	11.2	9.9	9.4	9.4
60°	2568.5	1607.9	62.9	29.8	19.1	12.3	10.7	9.1	8.1	7.3	7.3
62.5°	2652.6	1547.3	46.2	24.5	15.1	9.7	8.4	7.6	6.0	5.2	5.2
65°	2653.1	1446.8	34.7	20.4	11.7	7.6	6.3	6.0	3.9	3.1	2.9
67.5°	2461.2	1247.3	26.6	17.5	9.1	5.7	4.7	5.0	2.1	1.3	1.0
68°	2391.5	1196.6	25.1	17.2	8.6	5.5	4.4	5.0	1.8	1.0	0.8
70°	2016.3	952.0	20.1	16.7	7.6	4.2	3.7	5.0	1.6	0.8	0.5
72.5°	1289.6	552.5	14.9	13.3	5.7	3.1	2.3	4.4	1.6	0.5	0.3
75°	548.8	171.3	10.2	9.4	3.4	2.3	1.6	2.9	1.0	0.3	0.0
77.5°	115.7	38.6	6.0	5.7	2.3	1.6	1.0	0.8	0.3	0.0	0.0
80°	29.8	11.2	3.1	2.9	1.3	0.8	0.5	0.0	0.0	0.0	0.0
82.5°	9.4	4.4	1.8	1.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.7	2.6	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	0.8	0.3	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)