

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: P322036

Luminaire Tested: **GAN-SA2B-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6115 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
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

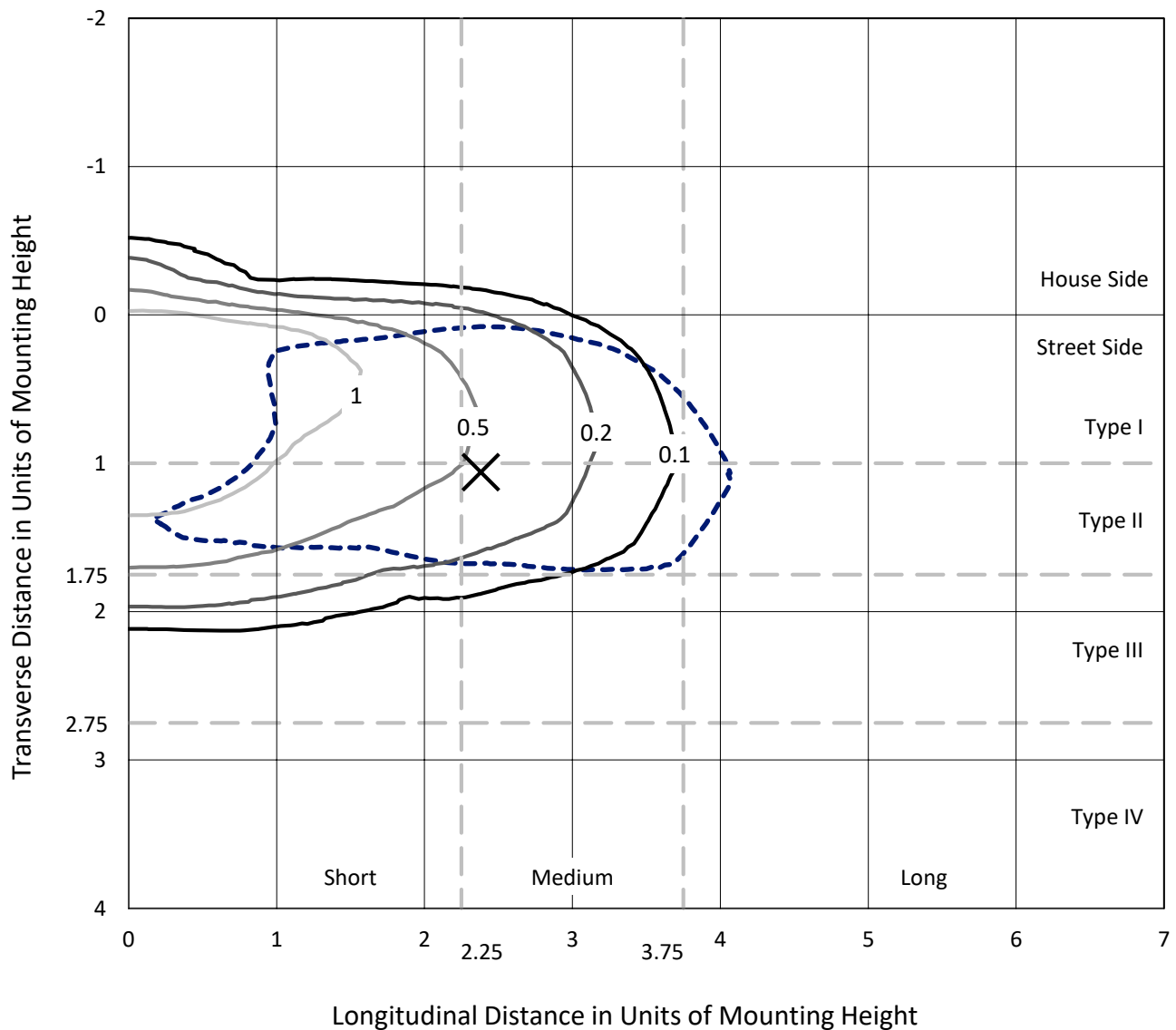


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Iso-Footcandle Lines of Horizontal Illumination

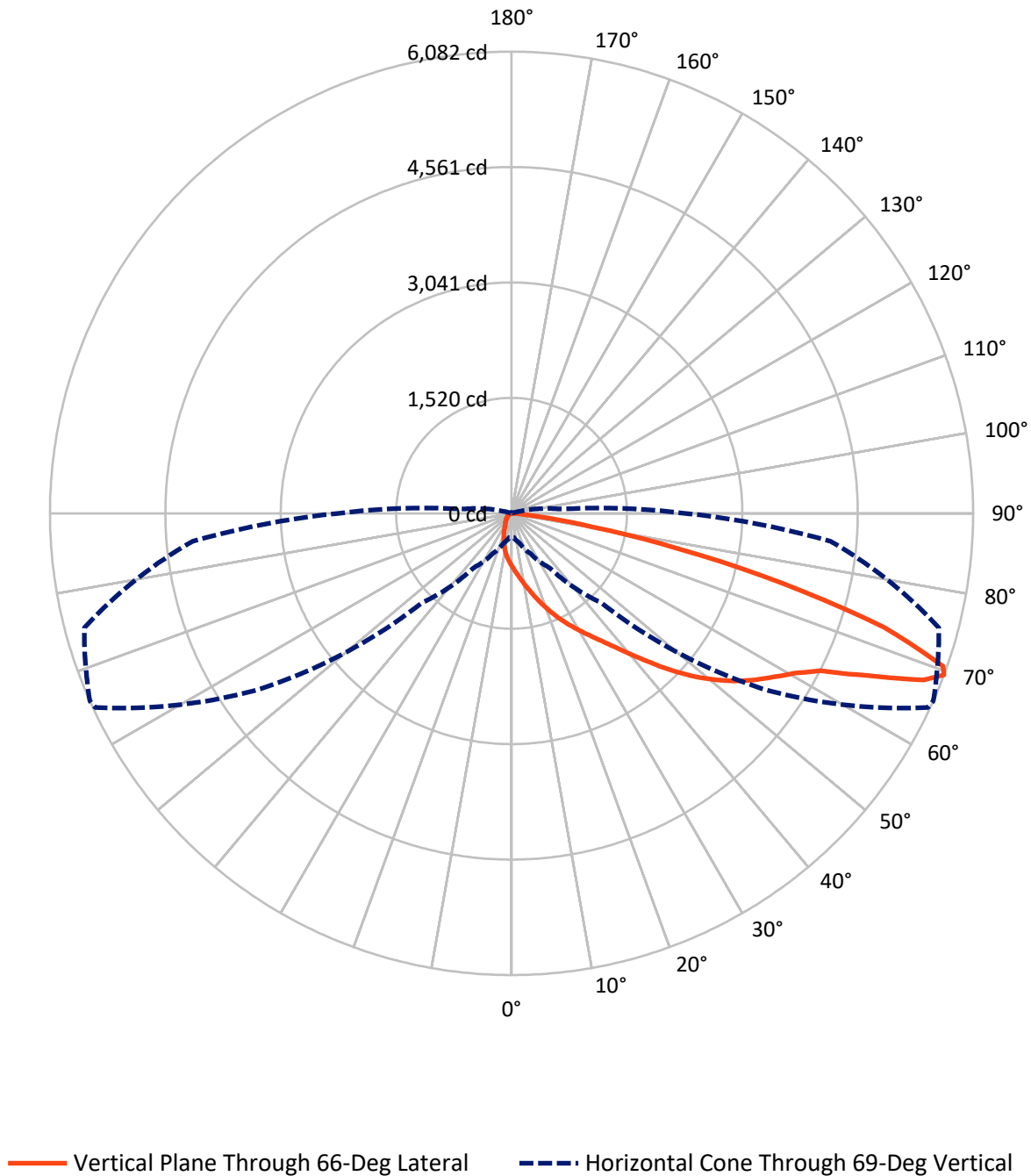
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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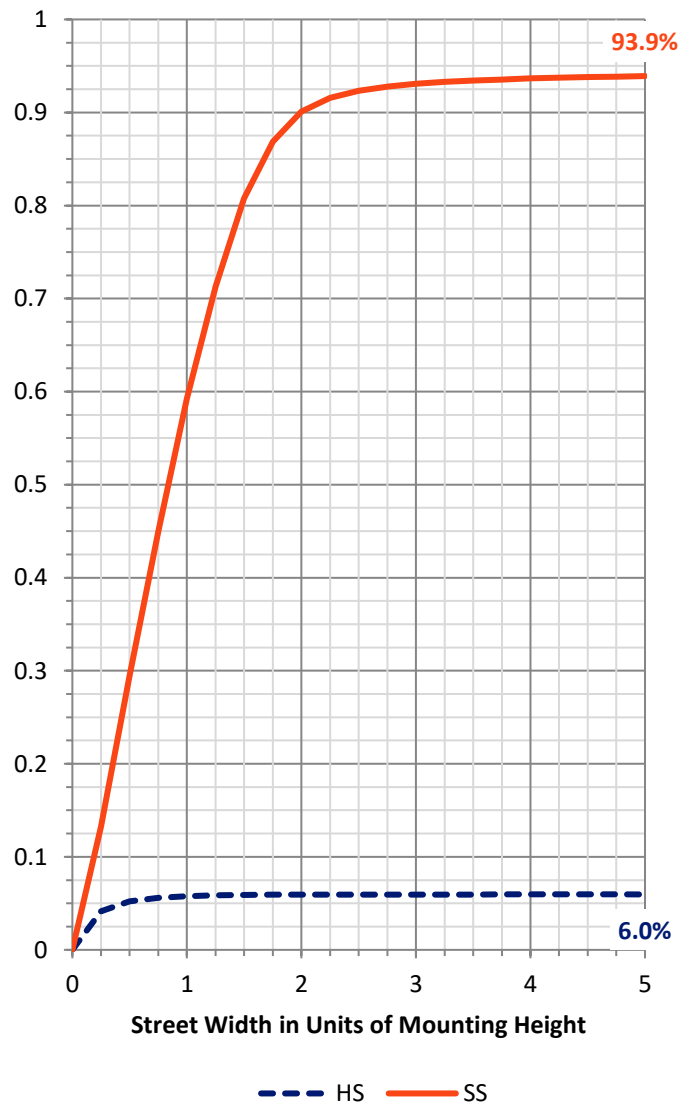
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	366.8	0.0	366.8
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	5748.2	0.0	5748.2
	% Fixture	94.0	0.0	94.0
Total	Lumens	6115.0	0.0	6115.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.3	1.1
10°-20°	200.2	3.3
20°-30°	348.6	5.7
30°-40°	611.7	10.0
40°-50°	1023.8	16.7
50°-60°	1504.9	24.6
60°-70°	1545.2	25.3
70°-80°	762.8	12.5
80°-90°	50.4	0.8
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°	6115.0	100.0
0°-180°	6115.0	100.0

Coefficient of Utilization



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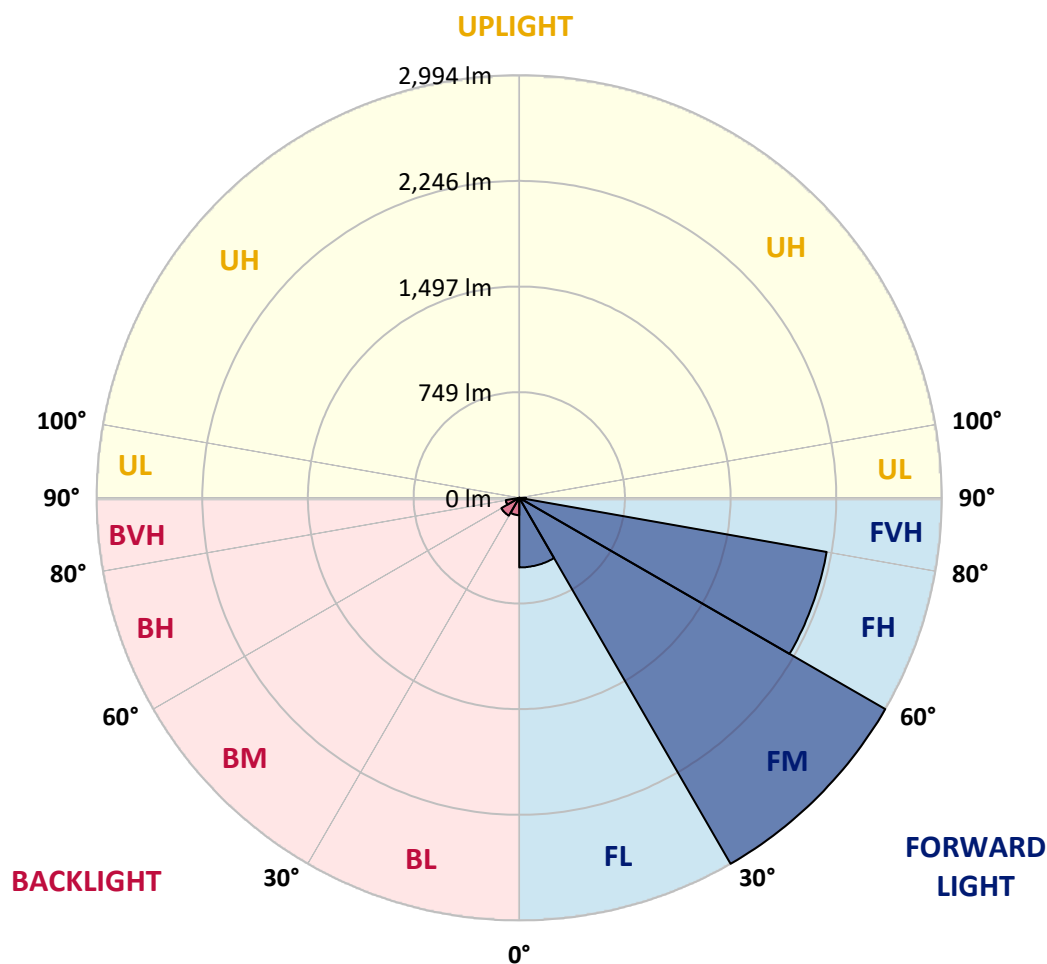
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	493.4	8.1			
FM	(30°-60°)	2994.2	49.0			
FH	(60°-80°)	2211.4	36.2			G2/5000
FVH	(80°-90°)	49.2	0.8			G1/100
BL	(0°-30°)	122.7	2.0	B1/500		
BM	(30°-60°)	146.3	2.4	B0/220		
BH	(60°-80°)	96.7	1.6	B0/110		G0/110
BVH	(80°-90°)	1.2	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	695.9	695.9	695.9	695.9	695.9	695.9	695.9	695.9	695.9	695.9	695.9
2.5°	819.1	815.6	814.1	807.7	796.7	788.3	772.0	753.1	749.6	731.3	709.0
5°	925.4	922.5	920.4	911.4	900.1	878.9	849.3	814.1	807.4	772.6	727.9
7.5°	999.4	1004.6	1004.6	998.8	984.6	968.6	932.3	884.4	876.0	822.5	753.1
10°	1042.7	1049.1	1054.0	1059.0	1056.9	1050.5	1016.3	962.2	952.1	881.2	782.5
12.5°	1046.8	1053.2	1067.1	1087.7	1107.8	1122.3	1100.8	1048.5	1036.9	949.2	817.3
15°	1024.1	1030.8	1052.3	1092.4	1140.9	1183.3	1190.2	1144.1	1132.2	1030.2	860.9
17.5°	984.6	989.0	1019.8	1075.2	1151.3	1229.2	1271.3	1246.6	1235.6	1122.9	909.4
20°	955.3	958.5	985.5	1045.0	1144.9	1257.9	1348.0	1355.5	1343.9	1222.2	962.0
22.5°	1005.5	1011.3	1012.2	1040.4	1127.5	1272.1	1415.3	1462.7	1454.0	1327.6	1013.7
25°	1142.9	1149.6	1127.5	1110.1	1142.3	1278.5	1473.1	1572.5	1565.5	1441.2	1065.6
27.5°	1324.4	1331.4	1302.9	1250.9	1219.9	1302.6	1524.5	1684.0	1683.7	1561.4	1121.7
30°	1502.8	1509.7	1480.7	1428.7	1357.3	1370.9	1569.0	1800.8	1802.5	1685.5	1181.2
32.5°	1689.8	1698.5	1668.6	1601.8	1527.2	1488.8	1631.4	1918.1	1928.0	1829.2	1248.3
35°	1902.4	1903.6	1861.5	1791.5	1705.5	1646.5	1731.6	2049.7	2073.2	2007.3	1333.4
37.5°	2111.0	2119.4	2084.8	1974.4	1895.4	1828.6	1880.6	2214.1	2247.5	2224.8	1444.7
40°	2265.5	2283.2	2278.3	2159.2	2084.2	2036.6	2065.6	2409.5	2451.9	2478.1	1585.0
42.5°	2362.5	2375.8	2398.5	2326.8	2258.8	2266.6	2284.1	2637.2	2689.5	2766.8	1746.2
45°	2473.7	2480.1	2499.0	2467.3	2421.4	2500.4	2515.8	2893.7	2948.6	3077.3	1925.1
47.5°	2609.6	2624.8	2630.0	2600.9	2580.0	2707.2	2739.2	3126.9	3203.9	3409.8	2114.4
50°	2782.8	2786.8	2795.8	2776.9	2756.0	2885.0	2939.6	3371.8	3441.8	3743.5	2301.2
52.5°	2952.1	2966.6	2998.0	2986.1	2977.6	3036.3	3118.2	3592.5	3670.6	4021.8	2487.7
55°	3000.9	3013.4	3121.7	3195.8	3264.3	3222.8	3289.0	3790.3	3874.8	4270.4	2667.2
57.5°	2806.0	2831.3	3018.9	3211.7	3496.1	3512.6	3523.7	3993.3	4069.1	4460.9	2853.9
60°	2313.4	2318.3	2626.2	2957.0	3457.7	3765.6	3866.4	4211.5	4275.1	4638.4	3077.6
62.5°	1471.4	1521.6	1859.4	2326.5	3052.3	3729.0	4280.9	4541.4	4564.6	4851.3	3398.2
65°	700.8	733.4	976.8	1437.4	2210.9	3260.5	4567.0	5138.3	5148.7	5273.3	3826.6
67.5°	388.0	403.7	519.6	773.7	1292.5	2305.8	4451.4	5845.2	5855.1	5704.3	4202.5
69°	303.5	316.9	408.1	583.2	876.3	1657.3	4028.2	6052.3	6081.6	5827.8	4215.8
70°	257.6	270.7	351.4	492.6	704.6	1280.6	3585.5	6000.9	6032.0	5816.2	4116.2
72.5°	157.7	165.3	234.1	346.8	472.3	644.2	2211.2	5074.9	5127.5	5335.2	3537.6
75°	106.3	110.4	146.4	239.3	337.8	331.7	1148.7	3577.1	3691.0	4150.2	2612.8
77.5°	76.1	79.9	98.2	154.8	236.7	219.0	520.2	2223.1	2247.5	2489.1	1424.9
80°	43.3	46.8	69.4	92.1	160.6	146.1	206.8	1061.9	1074.1	1067.4	475.7
82.5°	22.7	25.6	38.0	60.7	103.1	95.6	86.0	355.5	357.2	297.1	104.3
85°	4.4	5.2	18.9	41.5	53.2	41.5	35.1	83.4	85.1	75.2	25.8
87.5°	0.0	0.3	7.6	9.3	10.5	10.7	11.3	16.3	17.4	23.5	7.0
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°	695.9	695.9	695.9	695.9	695.9	695.9	695.9	695.9	695.9	695.9	695.9
2.5°	699.1	688.6	668.6	645.4	627.4	609.6	595.7	581.2	576.0	573.3	573.0
5°	706.1	684.0	641.6	598.0	562.3	528.6	504.5	481.6	470.8	465.9	463.8
7.5°	717.7	682.3	614.0	547.5	496.1	454.0	420.6	395.6	383.1	377.9	375.8
10°	731.3	679.9	581.8	494.0	428.4	384.8	351.7	327.0	313.4	307.6	304.7
12.5°	747.3	675.9	544.6	440.0	370.6	327.0	287.0	256.5	240.8	234.1	230.9
15°	767.1	671.8	505.7	389.2	319.8	266.6	222.8	202.1	199.0	197.8	198.1
17.5°	786.5	665.4	463.3	338.9	266.3	208.2	185.9	184.7	185.3	185.3	185.3
20°	804.0	650.9	417.1	296.0	215.5	175.7	171.1	169.0	167.6	166.4	165.0
22.5°	817.6	631.4	372.6	253.3	176.0	160.9	153.6	147.3	142.0	138.5	136.8
25°	826.9	605.6	332.0	212.3	158.3	146.4	133.3	122.6	114.4	109.5	107.5
27.5°	833.9	577.7	295.7	177.8	146.1	129.5	112.4	99.6	91.2	86.8	85.1
30°	838.8	546.0	263.7	156.3	132.4	111.8	93.5	81.0	74.9	72.6	71.4
32.5°	843.5	510.9	233.5	146.1	119.7	95.6	78.4	68.8	65.1	62.2	61.3
35°	855.1	478.4	204.8	135.3	106.6	81.6	67.4	60.4	56.6	54.9	54.3
37.5°	882.7	454.3	177.2	124.3	93.5	70.6	59.0	54.0	50.5	48.8	48.2
40°	927.1	442.1	153.9	112.4	80.7	62.2	53.4	48.8	45.0	42.4	41.8
42.5°	992.5	443.8	137.7	100.5	70.6	55.5	48.2	42.7	38.6	36.3	35.7
45°	1071.7	456.6	126.3	88.9	62.2	50.2	42.4	36.6	32.8	30.8	30.2
47.5°	1157.7	477.2	117.0	78.4	55.5	45.3	36.6	30.5	27.3	25.6	25.3
50°	1248.3	497.2	107.5	68.3	49.7	40.4	30.8	25.3	22.7	21.2	20.6
52.5°	1340.1	520.5	98.8	59.0	44.7	34.6	25.6	20.6	18.6	17.4	16.8
55°	1438.9	537.9	90.3	51.7	39.8	29.3	21.2	17.1	15.4	13.9	13.7
57.5°	1555.0	564.9	81.6	44.7	34.0	24.4	17.4	13.7	12.2	10.7	10.5
60°	1711.9	596.6	72.3	39.5	27.9	20.0	14.2	11.0	9.3	8.1	7.8
62.5°	1918.7	631.7	60.7	34.6	22.7	16.3	11.3	8.7	6.7	5.2	5.2
65°	2181.0	688.9	49.7	29.0	18.6	13.4	8.7	6.4	3.8	2.3	2.3
67.5°	2334.0	698.8	40.1	23.8	15.1	11.3	7.3	4.4	1.2	0.3	0.0
69°	2284.9	641.6	34.0	20.3	13.1	10.7	6.7	3.2	0.6	0.0	0.0
70°	2192.6	586.7	29.9	18.0	11.9	10.2	6.4	2.3	0.6	0.0	0.0
72.5°	1811.8	417.7	22.7	13.4	8.7	9.0	5.8	1.5	0.6	0.0	0.0
75°	1319.8	253.8	16.3	9.3	5.5	6.7	4.1	0.6	0.3	0.0	0.0
77.5°	734.2	119.7	10.2	5.2	3.5	4.1	2.0	0.0	0.0	0.0	0.0
80°	238.5	32.5	4.6	2.9	2.0	2.3	0.9	0.0	0.0	0.0	0.0
82.5°	44.1	9.3	2.6	1.5	0.6	0.6	0.0	0.0	0.0	0.0	0.0
85°	9.6	3.8	1.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	1.2	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)