

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: P318186

Luminaire Tested: **GAN-SA2A-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6879 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

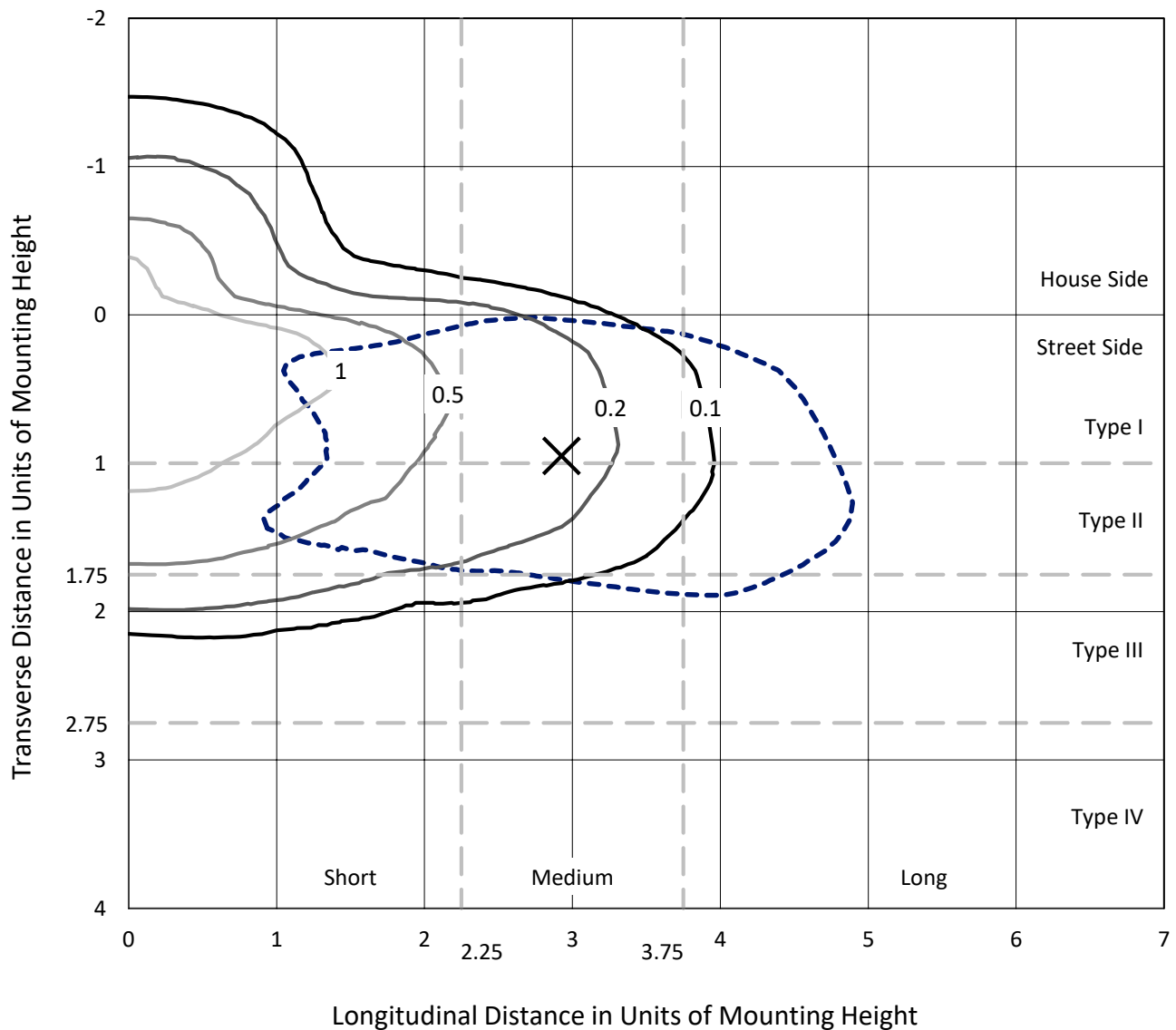
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

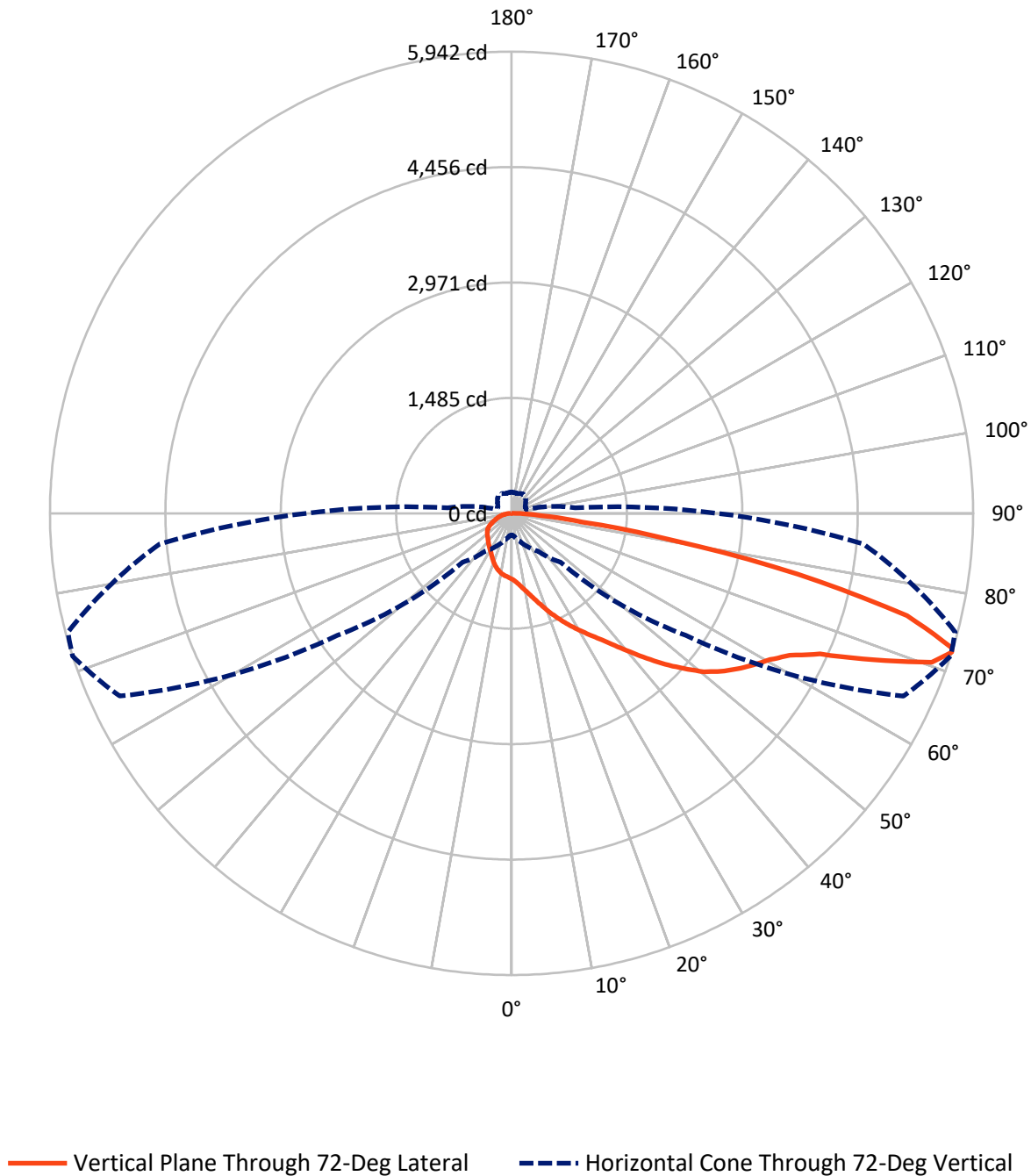
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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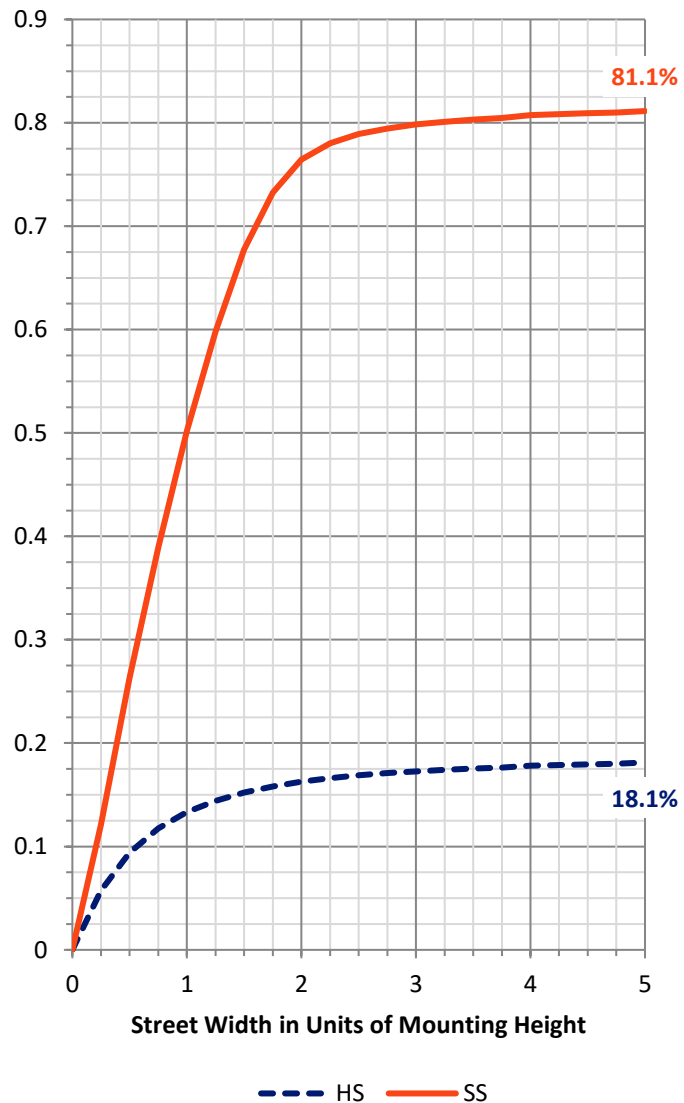
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1276.1	0.0	1276.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	5602.9	0.0	5602.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	6879.0	0.0	6879.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	1.2
10°-20°	274.0	4.0
20°-30°	480.2	7.0
30°-40°	712.0	10.4
40°-50°	1041.3	15.1
50°-60°	1432.9	20.8
60°-70°	1595.2	23.2
70°-80°	1080.9	15.7
80°-90°	177.7	2.6
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°	6879.0	100.0
0°-180°	6879.0	100.0

Coefficient of Utilization



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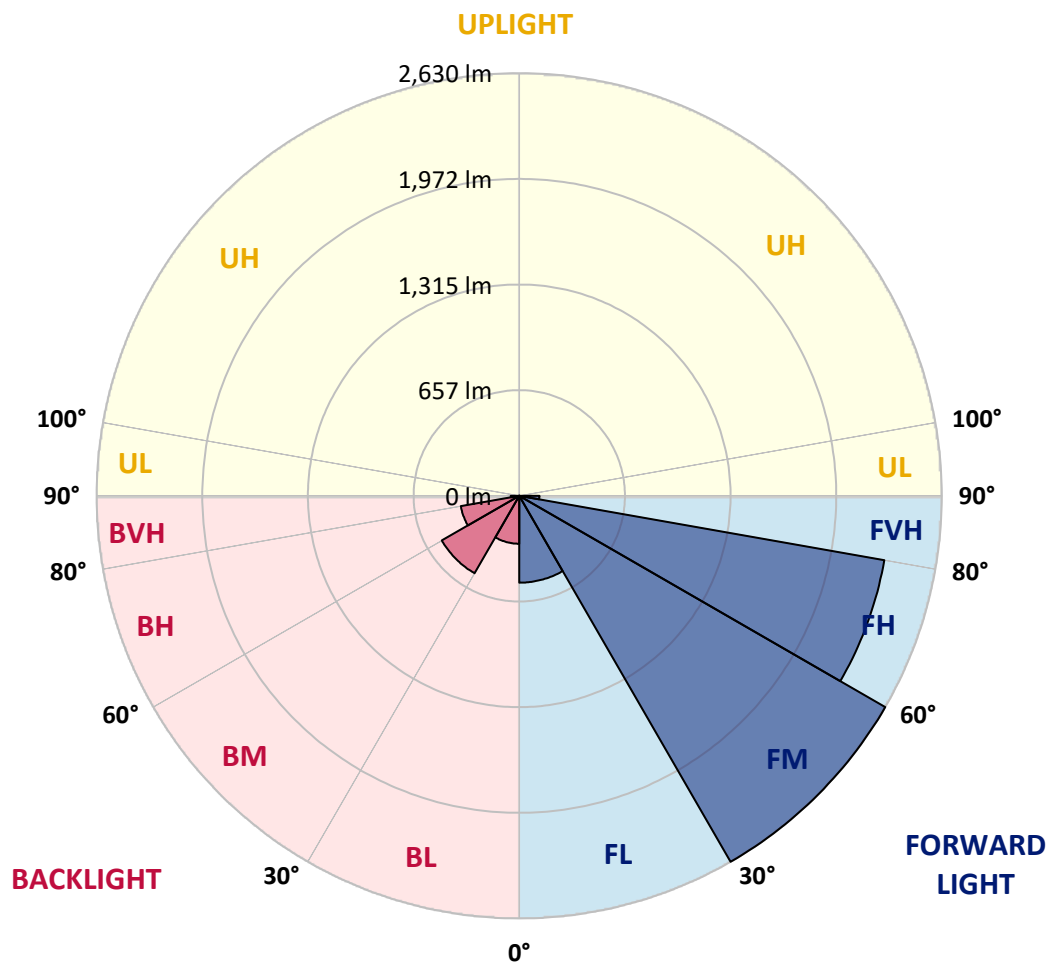
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	540.7	7.9			
FM	(30°-60°)	2629.9	38.2			
FH	(60°-80°)	2306.9	33.5			G2/5000
FVH	(80°-90°)	125.3	1.8			G2/225
BL	(0°-30°)	298.3	4.3	B1/500		
BM	(30°-60°)	556.3	8.1	B1/1000		
BH	(60°-80°)	369.2	5.4	B1/500		G1/500
BVH	(80°-90°)	52.3	0.8			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3
2.5°	934.9	933.5	928.5	928.5	919.0	911.0	895.8	885.6	873.5	869.3	855.1
5°	1025.4	1025.8	1019.7	1015.4	1001.4	984.4	958.6	935.1	911.7	902.2	873.1
7.5°	1101.4	1100.4	1098.8	1095.2	1082.2	1064.7	1029.9	995.0	960.5	946.3	896.0
10°	1150.2	1152.3	1153.7	1155.4	1149.9	1137.4	1104.5	1062.1	1016.8	997.4	923.5
12.5°	1174.8	1178.6	1185.2	1196.6	1205.6	1204.2	1180.3	1135.3	1081.5	1057.1	957.9
15°	1189.3	1194.2	1204.7	1225.0	1250.4	1264.8	1258.4	1217.7	1157.8	1127.7	999.8
17.5°	1198.3	1202.3	1218.4	1245.6	1283.3	1321.7	1338.5	1304.4	1244.0	1209.6	1047.9
20°	1204.4	1207.5	1227.6	1259.6	1308.4	1369.5	1416.4	1407.9	1339.0	1294.4	1098.1
22.5°	1218.2	1220.8	1240.0	1272.2	1326.2	1405.0	1491.5	1504.3	1439.2	1388.7	1151.8
25°	1256.5	1256.5	1272.6	1295.1	1345.8	1435.8	1555.0	1611.6	1541.5	1482.7	1201.6
27.5°	1329.7	1329.0	1334.9	1342.8	1381.1	1467.1	1611.6	1706.3	1647.6	1583.4	1249.9
30°	1416.4	1421.2	1421.9	1418.1	1436.1	1506.2	1663.9	1806.3	1754.4	1685.3	1299.4
32.5°	1528.0	1531.1	1527.5	1514.9	1512.3	1561.6	1715.3	1911.0	1870.0	1791.6	1344.6
35°	1669.6	1663.7	1652.6	1627.0	1602.6	1635.7	1774.1	2015.7	1999.8	1920.2	1406.9
37.5°	1821.4	1821.7	1807.9	1749.9	1716.3	1730.5	1855.1	2134.3	2156.8	2073.2	1486.8
40°	1943.2	1949.6	1958.1	1881.8	1838.3	1857.9	1958.1	2271.9	2342.5	2254.7	1590.7
42.5°	2028.2	2035.6	2059.7	2011.9	1966.6	2003.1	2079.4	2418.8	2551.0	2464.0	1712.5
45°	2118.2	2122.3	2139.3	2118.7	2089.8	2172.0	2216.1	2570.9	2771.5	2687.2	1848.7
47.5°	2213.0	2217.2	2234.8	2221.0	2205.9	2329.7	2358.6	2714.2	2982.8	2932.3	1994.1
50°	2330.0	2332.8	2349.4	2324.5	2329.3	2448.6	2486.1	2845.6	3204.2	3152.6	2140.0
52.5°	2489.6	2490.3	2513.3	2490.8	2468.5	2535.8	2595.7	2969.5	3377.8	3353.4	2285.9
55°	2614.7	2622.3	2697.6	2692.8	2680.1	2614.9	2687.4	3087.5	3532.7	3544.4	2440.8
57.5°	2534.9	2564.5	2717.0	2824.5	2929.2	2811.8	2811.3	3220.3	3676.8	3731.7	2611.1
60°	2220.1	2260.3	2485.1	2723.6	3051.2	3154.2	3068.5	3382.6	3822.2	3917.4	2824.5
62.5°	1585.5	1651.9	1956.5	2337.3	2884.0	3381.2	3592.0	3640.0	4020.0	4132.5	3101.9
65°	801.5	851.7	1107.1	1565.9	2304.2	3232.9	4160.9	4203.8	4363.6	4463.6	3529.0
67.5°	487.0	505.9	630.5	870.9	1412.6	2518.3	4346.6	5143.4	5028.7	5081.8	4137.9
70°	358.8	372.8	450.5	578.4	812.4	1477.8	3776.7	5813.9	5738.6	5732.7	4588.0
72°	279.5	289.7	358.4	467.3	594.0	886.6	2737.4	5566.4	5941.8	5912.0	4546.7
72.5°	265.0	274.0	336.6	439.8	561.4	803.7	2461.2	5399.4	5927.2	5913.7	4493.4
75°	208.7	215.1	249.2	340.1	439.4	456.0	1348.7	4184.3	5258.0	5476.6	4041.5
77.5°	172.7	173.6	191.6	247.5	342.5	322.4	662.5	2903.2	3765.1	4005.5	2862.9
80°	140.7	141.9	150.4	173.6	259.1	238.5	314.5	1669.4	2108.0	2110.6	1361.5
82.5°	112.0	112.3	121.7	127.0	186.2	170.5	180.2	783.8	921.1	886.1	489.4
85°	78.9	77.2	118.9	104.2	121.7	109.4	99.5	310.3	380.9	364.3	153.2
87.5°	26.3	27.2	52.8	67.5	71.1	62.1	44.3	118.9	143.8	142.6	48.6
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°	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3
2.5°	850.6	843.0	831.8	819.5	809.8	799.9	792.5	788.7	784.5	780.9	785.2
5°	859.6	845.3	821.7	798.5	781.4	766.2	755.3	749.7	744.4	740.9	741.4
7.5°	874.2	851.3	811.5	777.6	753.9	737.6	726.4	722.7	719.3	718.4	719.6
10°	889.9	856.0	798.0	753.0	726.0	712.5	707.5	710.1	712.5	714.6	717.0
12.5°	907.6	860.3	778.3	724.1	701.1	695.9	700.9	712.2	720.5	725.5	728.6
15°	930.9	864.1	755.6	695.2	679.8	685.7	702.5	722.2	736.6	745.9	747.3
17.5°	952.2	863.8	726.4	666.0	662.5	679.8	705.1	732.8	752.3	765.3	767.9
20°	974.2	857.4	692.6	637.6	645.0	673.4	706.3	739.7	763.2	778.3	781.9
22.5°	994.8	846.3	655.4	611.8	630.3	664.9	701.8	735.7	759.1	771.4	775.2
25°	1008.8	826.9	617.7	590.0	617.3	654.4	687.1	714.4	731.9	738.1	739.0
27.5°	1015.9	801.5	582.2	571.1	603.8	637.4	659.9	673.4	678.4	677.9	676.9
30°	1016.8	768.1	551.6	555.7	588.1	612.3	622.9	620.3	613.9	603.0	604.0
32.5°	1013.8	730.5	526.1	541.0	568.2	581.7	582.2	569.6	552.6	535.3	530.6
35°	1014.7	693.5	503.6	524.4	544.1	550.0	544.5	526.1	502.9	480.6	475.8
37.5°	1025.1	661.3	484.1	505.2	517.3	518.7	510.9	491.5	474.4	452.6	450.7
40°	1050.0	638.3	465.7	483.7	490.5	491.2	480.1	466.4	467.8	456.2	456.0
42.5°	1094.8	628.4	449.3	461.2	465.4	466.8	458.3	449.6	461.9	454.3	451.7
45°	1152.6	630.8	435.6	439.1	447.0	453.6	448.4	437.7	442.5	409.5	398.6
47.5°	1219.3	645.9	424.7	420.2	433.7	446.2	438.2	422.1	405.3	372.6	366.4
50°	1297.5	669.4	414.7	401.5	419.2	436.3	428.2	405.3	379.9	364.1	361.9
52.5°	1379.0	698.0	404.8	380.9	401.0	428.7	424.7	401.5	370.2	354.6	351.7
55°	1471.4	726.9	392.2	356.9	381.3	425.2	423.0	387.7	362.9	354.1	352.0
57.5°	1586.2	759.8	375.7	332.1	362.9	412.4	405.7	379.4	355.3	348.7	347.9
60°	1735.9	808.4	351.7	305.5	340.4	392.7	391.3	367.4	343.2	338.5	337.5
62.5°	1960.5	888.7	318.8	279.0	315.3	359.3	372.3	351.0	330.4	330.2	330.7
65°	2308.7	1009.5	283.0	255.8	289.9	331.1	350.3	334.2	317.4	322.1	322.8
67.5°	2712.3	1109.7	248.0	233.1	264.1	304.4	330.4	317.4	300.1	312.4	312.7
70°	2846.6	1020.2	217.2	210.6	237.3	278.5	308.9	298.9	281.4	293.7	292.5
72°	2649.0	823.6	197.3	193.5	217.2	257.2	289.7	281.6	264.3	272.6	269.5
72.5°	2586.7	785.2	192.3	189.3	211.8	251.8	284.7	277.4	260.1	267.2	264.3
75°	2307.5	681.9	165.3	166.0	184.7	225.3	256.8	254.4	236.6	237.3	236.4
77.5°	1673.6	500.0	139.3	144.0	157.3	198.0	228.6	227.1	207.7	204.2	203.5
80°	776.7	255.1	113.5	115.6	129.3	165.6	194.9	193.0	177.4	172.9	170.3
82.5°	266.0	121.3	85.3	86.7	100.2	133.4	169.1	167.9	154.9	146.1	140.7
85°	95.0	60.4	59.7	58.3	71.5	104.9	147.3	140.9	121.7	103.7	103.3
87.5°	30.8	25.8	30.8	30.6	41.7	71.1	107.1	91.2	88.3	73.4	72.0
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)