

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: P192849

Luminaire Tested: **GAN-AF-01-LED-U-SL3-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-SL3-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3392.5 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 34
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: 28.75 FT

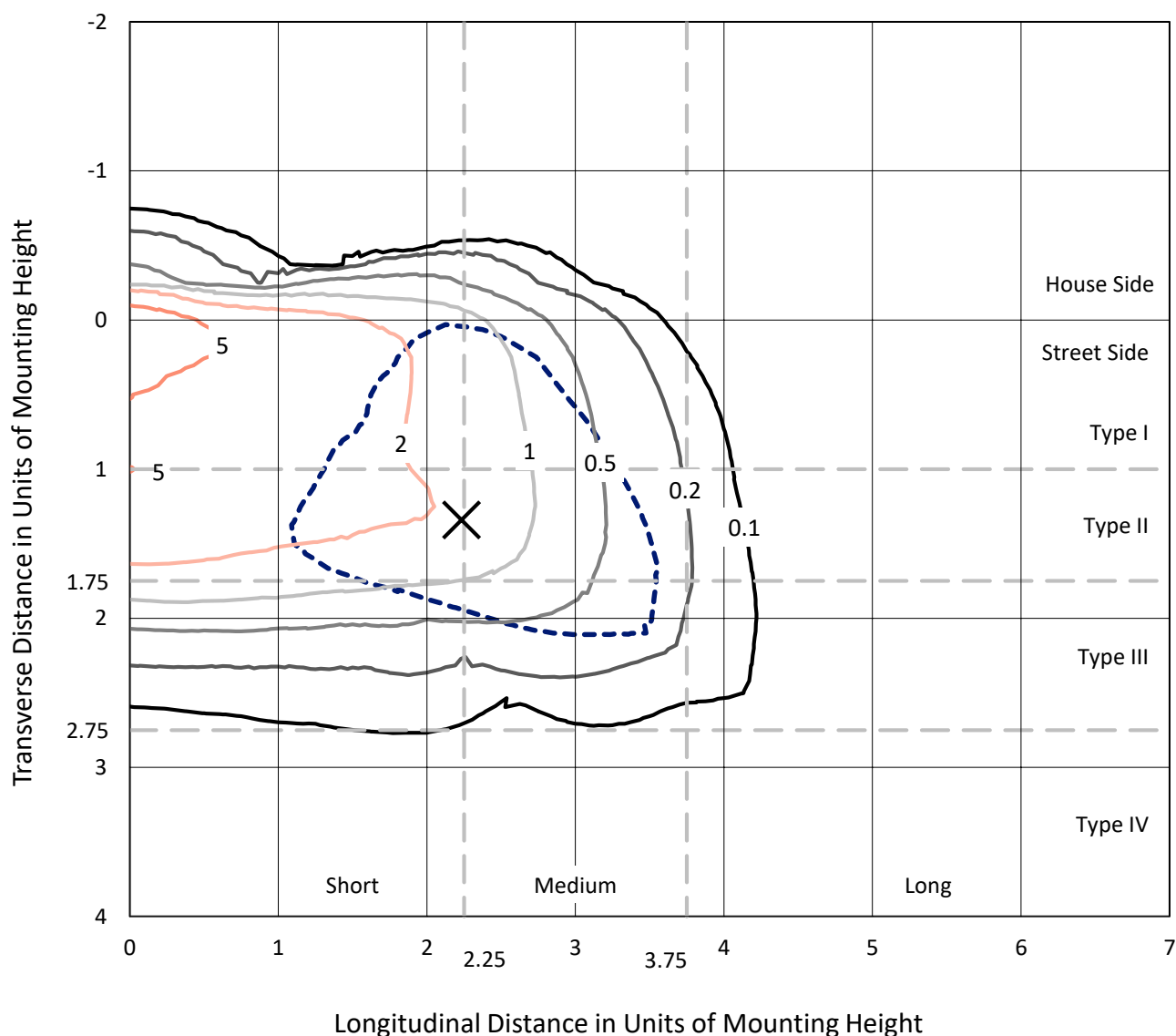


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

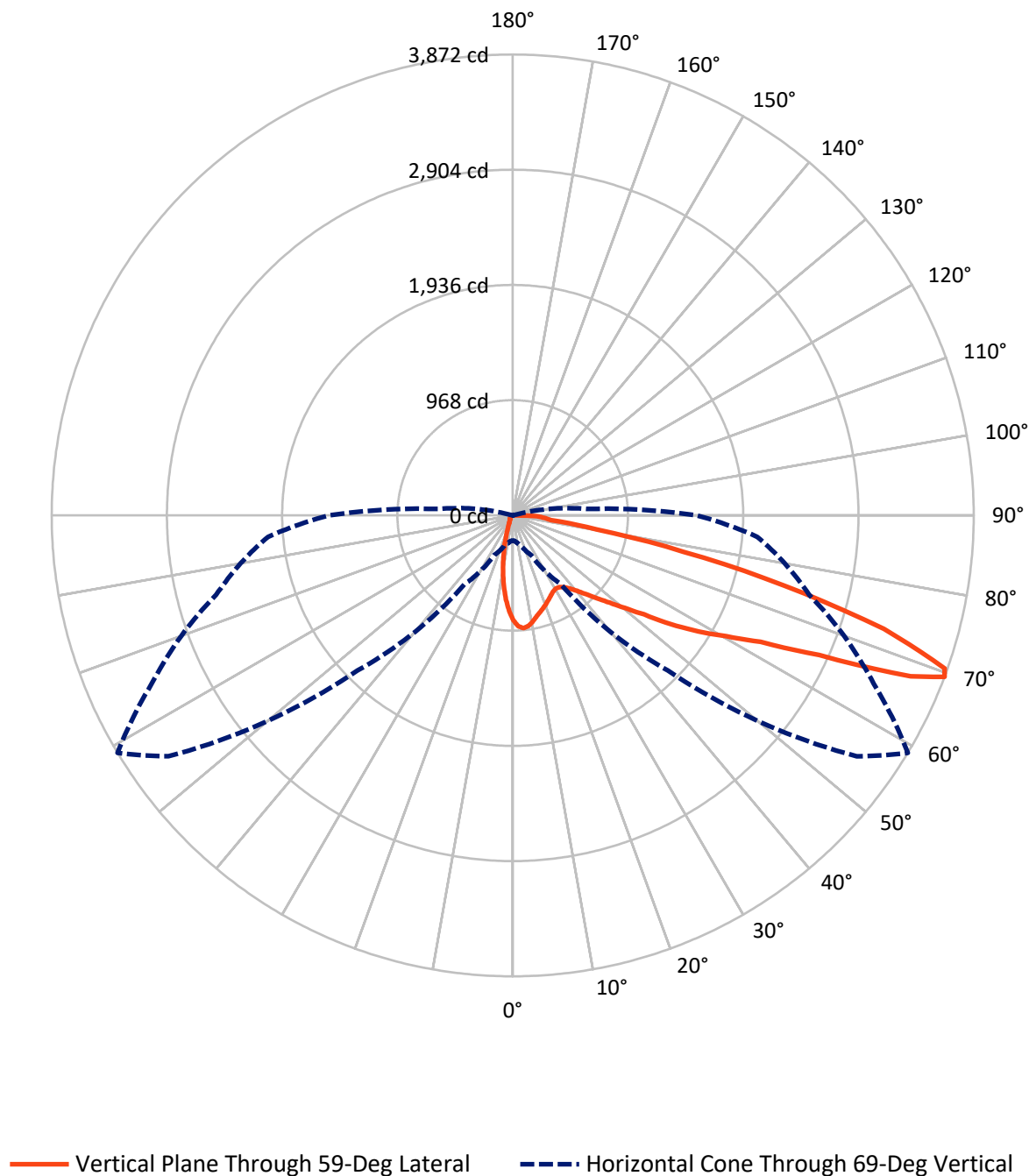


Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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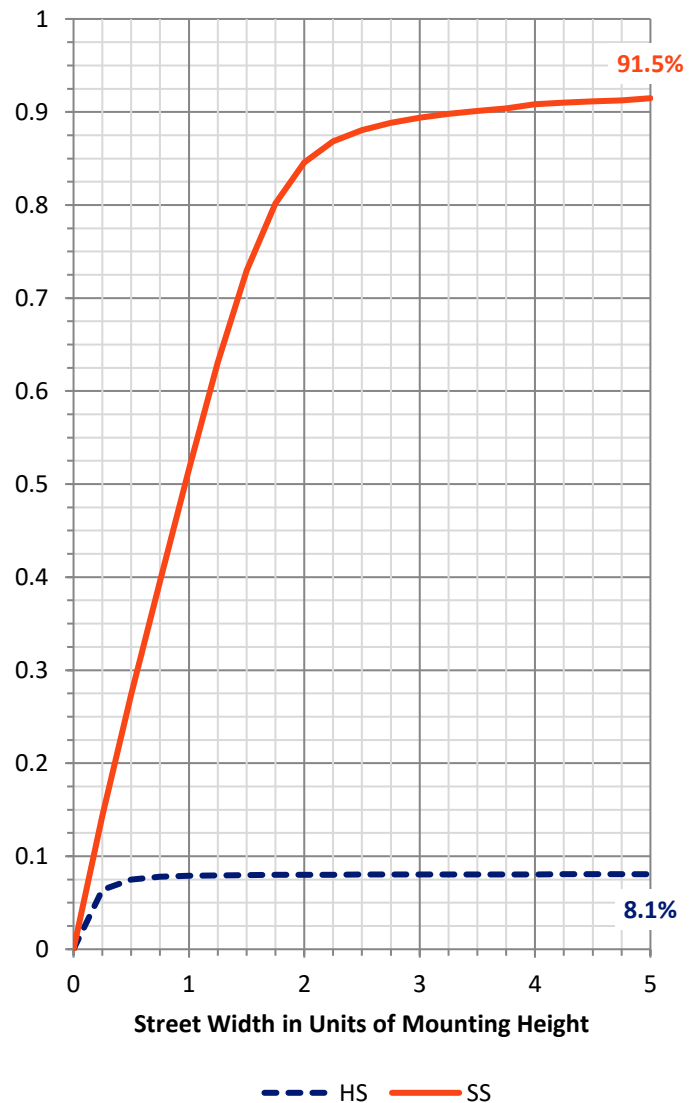
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	276.3	0.0	276.3
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	3116.2	0.0	3116.2
	% Fixture	91.9	0.0	91.9
Total	Lumens	3392.5	0.0	3392.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	2.1
10°-20°	148.1	4.4
20°-30°	199.3	5.9
30°-40°	289.4	8.5
40°-50°	481.8	14.2
50°-60°	751.6	22.2
60°-70°	930.0	27.4
70°-80°	471.3	13.9
80°-90°	49.3	1.5
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°	3392.5	100.0
0°-180°	3392.5	100.0

Coefficient of Utilization



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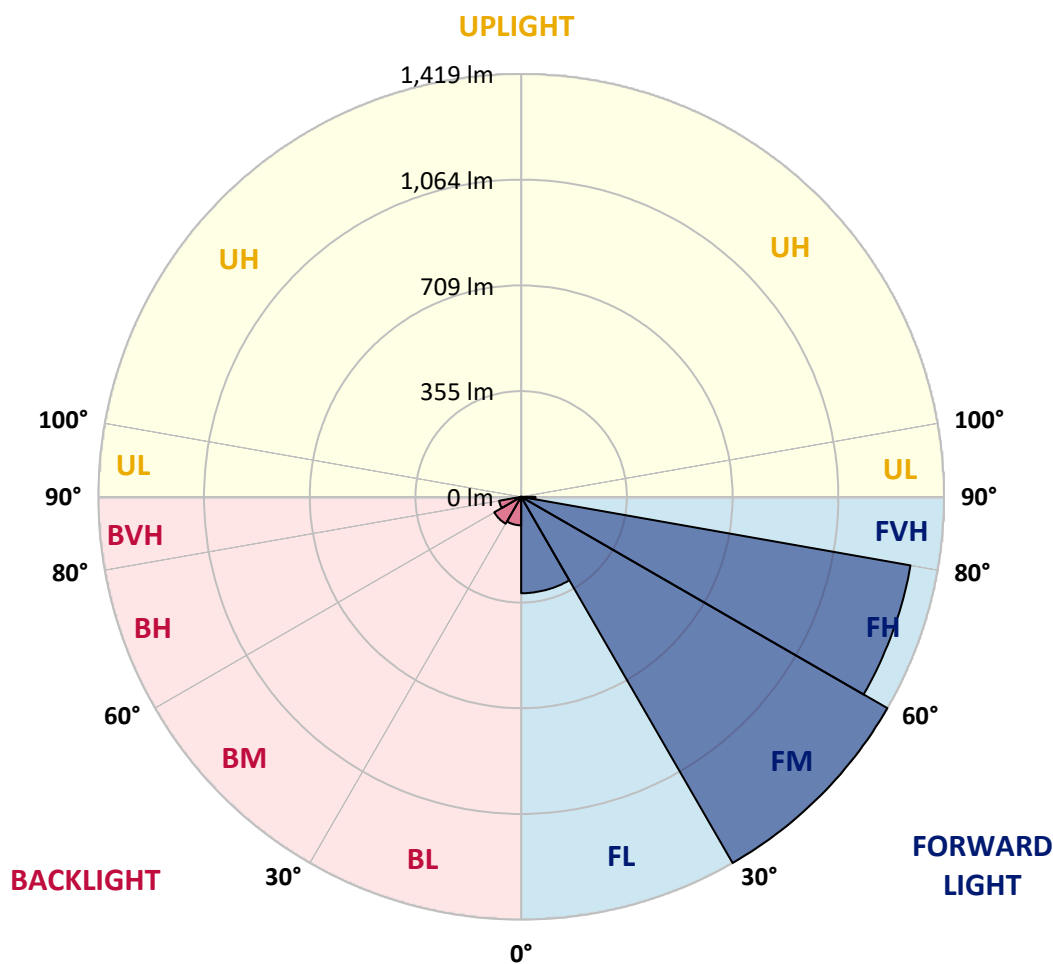
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	323.4	9.5			
FM	(30°-60°)	1418.6	41.8			
FH	(60°-80°)	1326.3	39.1			G1/1800
FVH	(80°-90°)	47.8	1.4			G1/100
BL	(0°-30°)	95.6	2.8	B0/110		
BM	(30°-60°)	104.1	3.1	B0/220		
BH	(60°-80°)	75.0	2.2	B0/110		G0/110
BVH	(80°-90°)	1.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	883.1	883.1	883.1	883.1	883.1	883.1	883.1	883.1	883.1	883.1	883.1
2.5°	967.8	967.4	963.2	961.3	957.8	950.5	939.2	933.3	923.7	907.0	884.6
5°	959.0	963.5	966.1	966.3	968.8	966.1	955.9	950.9	937.7	910.7	870.6
7.5°	899.1	900.9	908.0	914.1	926.0	937.3	940.9	938.9	931.0	902.2	848.7
10°	835.1	836.8	845.2	853.4	869.3	886.8	905.3	909.1	912.5	889.9	827.5
12.5°	779.8	781.5	790.2	800.8	819.6	841.0	869.6	875.9	890.4	878.2	810.7
15°	732.2	733.0	741.5	754.6	777.0	804.5	836.9	847.2	869.1	869.9	796.0
17.5°	691.7	693.7	698.8	711.3	735.9	770.1	807.9	822.4	848.3	863.0	781.5
20°	667.0	668.8	668.7	675.7	697.7	734.1	778.7	796.2	827.5	855.9	768.6
22.5°	662.2	662.2	657.2	656.3	669.3	699.8	748.3	769.6	808.9	852.9	759.7
25°	679.3	678.5	666.1	655.9	656.4	674.6	719.0	744.3	793.2	855.1	754.9
27.5°	715.3	714.4	698.7	679.3	663.8	663.5	696.7	724.0	780.7	865.0	756.8
30°	765.3	764.9	747.8	723.4	695.2	669.3	689.1	713.8	772.7	883.1	761.2
32.5°	819.7	819.1	806.4	780.5	744.9	695.2	697.2	717.9	774.9	907.0	771.9
35°	877.5	876.5	870.9	848.5	809.2	743.0	723.7	739.6	789.6	942.9	793.0
37.5°	939.9	940.9	945.0	923.5	882.3	809.9	767.9	778.8	818.9	991.6	827.4
40°	1032.3	1032.1	1033.4	1005.1	965.6	891.9	830.0	833.3	868.1	1056.2	879.5
42.5°	1199.7	1188.0	1152.5	1095.0	1055.1	985.4	908.0	904.3	928.0	1136.3	952.6
45°	1424.7	1399.8	1307.8	1197.5	1146.4	1091.0	1004.1	992.4	1007.5	1232.3	1042.8
47.5°	1618.3	1592.5	1462.2	1304.1	1243.3	1191.2	1116.6	1095.6	1100.6	1339.9	1157.2
50°	1684.1	1671.4	1557.7	1397.0	1337.2	1317.1	1247.3	1221.6	1214.5	1464.5	1289.7
52.5°	1661.3	1660.3	1584.6	1457.2	1423.0	1447.5	1411.7	1382.0	1355.9	1595.7	1424.5
55°	1624.6	1629.5	1595.5	1510.0	1508.8	1566.8	1636.6	1611.8	1536.1	1738.2	1540.8
57.5°	1523.5	1544.1	1589.4	1609.7	1656.9	1716.1	1823.7	1838.4	1749.0	1847.3	1637.4
60°	1236.2	1281.3	1429.3	1624.0	1847.8	1995.5	2049.8	2062.3	1923.5	1938.2	1767.6
62.5°	877.5	923.5	1111.2	1440.7	1850.7	2362.5	2386.4	2337.5	2115.8	2072.6	1992.3
65°	465.8	501.3	654.7	1039.9	1604.5	2447.6	2975.1	2829.4	2454.9	2337.2	2282.4
67.5°	238.3	249.0	310.0	508.9	1103.1	2174.0	3503.0	3605.5	3039.5	2599.6	2268.4
69°	210.9	217.2	257.7	367.9	706.4	1841.4	3528.6	3872.0	3345.4	2577.8	2061.5
70°	204.1	209.7	246.5	333.0	552.1	1544.3	3430.2	3848.6	3423.7	2494.4	1906.9
72.5°	173.1	178.0	219.5	294.2	448.7	766.6	2786.4	3261.2	3072.3	2078.0	1380.3
75°	115.9	131.5	210.7	275.9	417.5	435.5	1836.9	2356.7	2189.2	1401.6	719.0
77.5°	27.9	29.9	59.4	219.5	381.8	383.3	944.8	1465.0	1195.0	499.6	170.0
80°	15.0	14.4	16.7	43.6	355.4	359.7	425.3	711.2	426.6	82.8	56.0
82.5°	10.6	10.0	10.7	18.2	111.9	327.7	307.7	321.9	176.9	31.8	25.1
85°	3.9	3.6	5.9	16.5	35.1	188.4	316.2	265.5	143.3	14.5	18.5
87.5°	1.3	1.2	2.3	9.1	10.7	80.2	195.1	200.7	56.4	8.8	8.6
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°	883.1	883.1	883.1	883.1	883.1	883.1	883.1	883.1	883.1	883.1	883.1
2.5°	875.1	863.2	841.4	818.9	798.2	773.3	760.8	748.5	743.4	741.5	732.5
5°	849.8	829.8	783.3	736.6	693.7	648.0	617.9	593.8	579.5	572.6	561.7
7.5°	817.4	784.4	714.0	642.1	575.1	509.1	460.2	422.7	396.7	384.3	372.9
10°	785.9	742.0	641.9	543.9	452.9	365.5	297.9	249.0	217.8	203.3	194.2
12.5°	757.7	700.8	572.3	448.2	334.0	231.5	162.9	123.9	104.6	97.8	94.6
15°	732.6	662.7	506.4	357.2	226.1	132.3	89.0	75.8	72.6	72.6	72.3
17.5°	708.9	625.6	442.9	271.8	141.9	81.0	67.7	66.0	66.0	66.7	66.7
20°	686.0	590.1	381.6	195.1	89.4	64.3	61.1	60.8	61.1	62.2	62.2
22.5°	666.5	557.9	324.2	134.0	66.4	57.9	56.4	55.8	56.0	56.6	57.0
25°	651.8	530.7	270.1	90.6	57.2	52.8	51.1	50.0	49.2	49.2	49.7
27.5°	642.7	507.6	217.8	66.0	51.5	48.0	45.3	43.7	42.1	41.1	41.4
30°	635.9	485.7	168.6	53.9	46.0	42.6	39.2	36.6	34.2	33.0	33.5
32.5°	633.4	468.0	126.0	47.5	41.2	37.3	33.3	29.9	27.2	26.3	26.4
35°	640.1	454.1	92.4	42.9	37.3	32.6	27.9	24.1	22.1	21.6	21.7
37.5°	657.8	446.6	69.1	39.2	34.0	28.6	23.2	19.7	18.5	18.5	18.6
40°	691.2	446.5	55.4	36.5	30.9	24.7	19.2	16.7	16.0	16.3	16.5
42.5°	739.9	456.6	48.3	34.0	28.2	21.1	16.0	14.2	13.9	14.4	14.5
45°	806.5	475.2	44.5	31.8	25.3	17.7	13.4	12.2	12.2	12.9	13.0
47.5°	888.1	502.4	41.2	29.7	22.4	14.7	11.5	10.7	10.9	11.5	11.7
50°	986.2	536.8	38.0	27.5	20.3	12.2	10.0	9.4	9.7	10.4	10.6
52.5°	1098.0	583.0	35.3	25.3	17.7	10.2	8.4	8.0	8.4	9.2	9.4
55°	1193.9	624.4	32.0	23.6	14.2	8.4	6.9	6.9	7.3	8.2	8.4
57.5°	1286.3	667.8	29.2	20.3	11.2	6.7	5.8	5.9	6.5	7.4	7.6
60°	1421.7	741.3	25.6	17.1	8.4	5.4	4.8	5.0	5.8	6.7	6.9
62.5°	1651.7	853.1	22.3	14.2	6.5	4.3	3.9	4.3	5.1	6.3	6.5
65°	1859.3	898.5	18.2	11.9	5.0	3.3	3.3	3.9	5.0	6.1	6.3
67.5°	1743.6	756.4	14.2	9.4	3.9	2.5	2.7	3.6	4.8	6.1	6.3
69°	1541.9	618.5	12.1	7.4	3.3	2.3	2.5	3.6	4.8	5.9	6.1
70°	1384.9	522.1	10.7	6.3	2.8	2.3	2.5	3.5	4.8	5.9	6.1
72.5°	927.5	282.0	8.6	4.6	2.7	2.0	2.0	3.5	4.6	5.8	5.9
75°	398.7	77.9	6.9	3.3	2.3	1.9	1.9	3.3	4.4	5.6	5.9
77.5°	72.8	19.7	5.6	2.8	2.3	1.9	1.7	3.1	4.3	5.4	5.6
80°	29.0	9.9	4.4	2.5	2.0	1.7	1.5	2.8	4.1	5.1	5.4
82.5°	17.5	5.6	3.6	2.3	2.0	1.5	1.3	2.5	3.9	5.0	5.1
85°	14.2	3.9	2.8	2.3	1.9	1.5	1.2	2.3	3.5	4.8	5.0
87.5°	6.9	2.7	2.7	2.0	1.9	1.5	1.2	2.0	3.3	4.6	4.8
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)