

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: P322695

Luminaire Tested: **GAN-SA1D-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4241 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

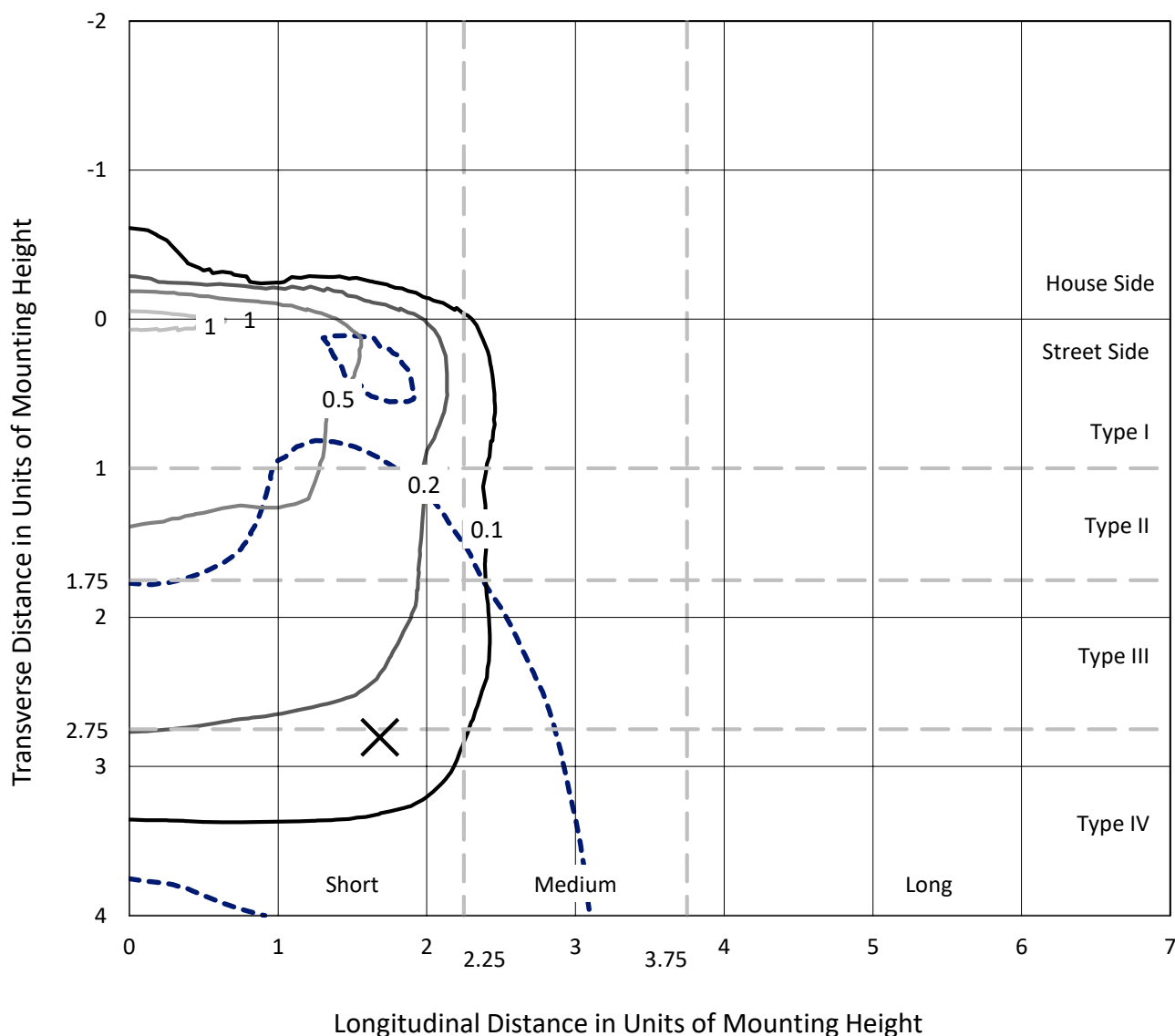
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

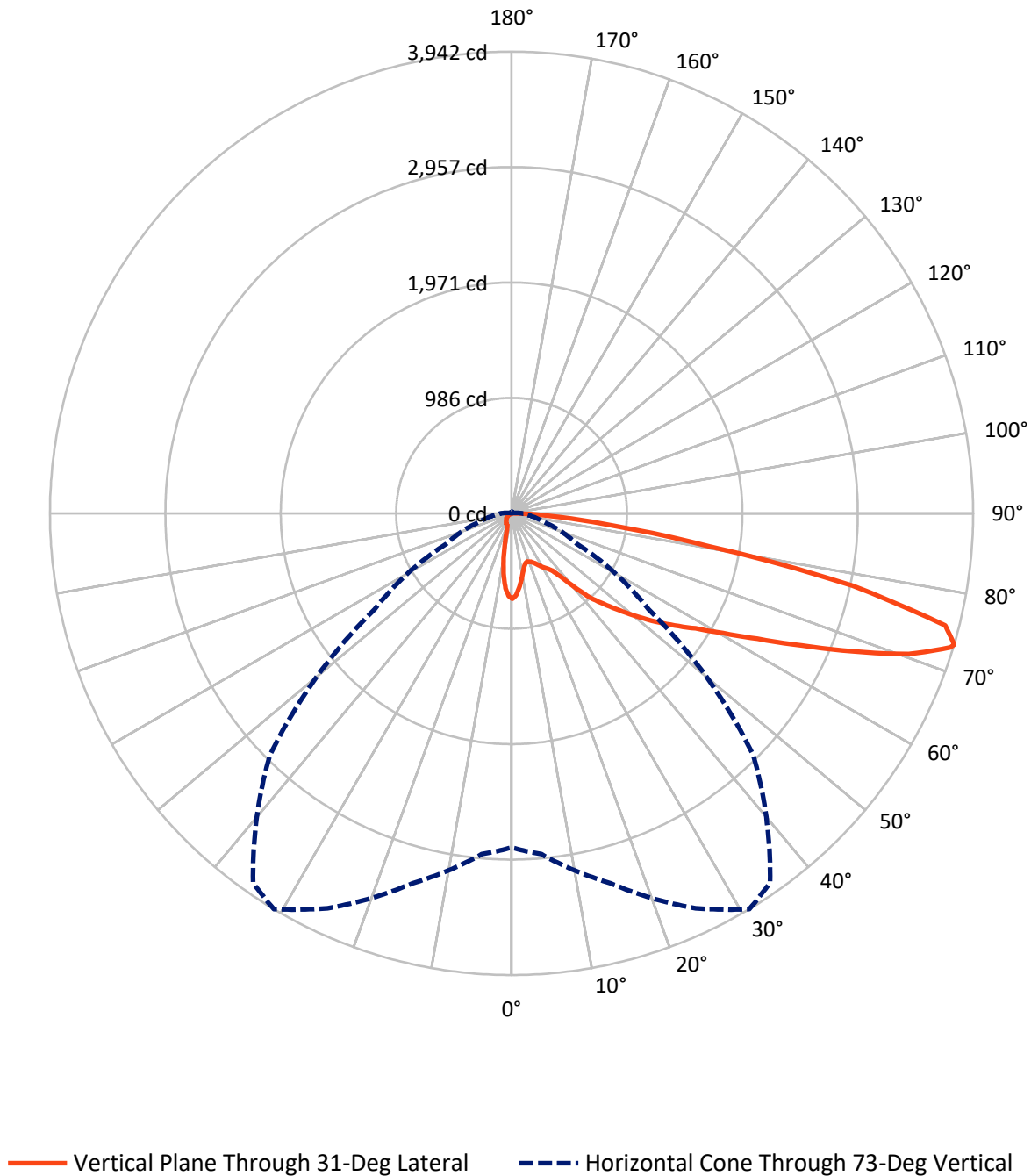
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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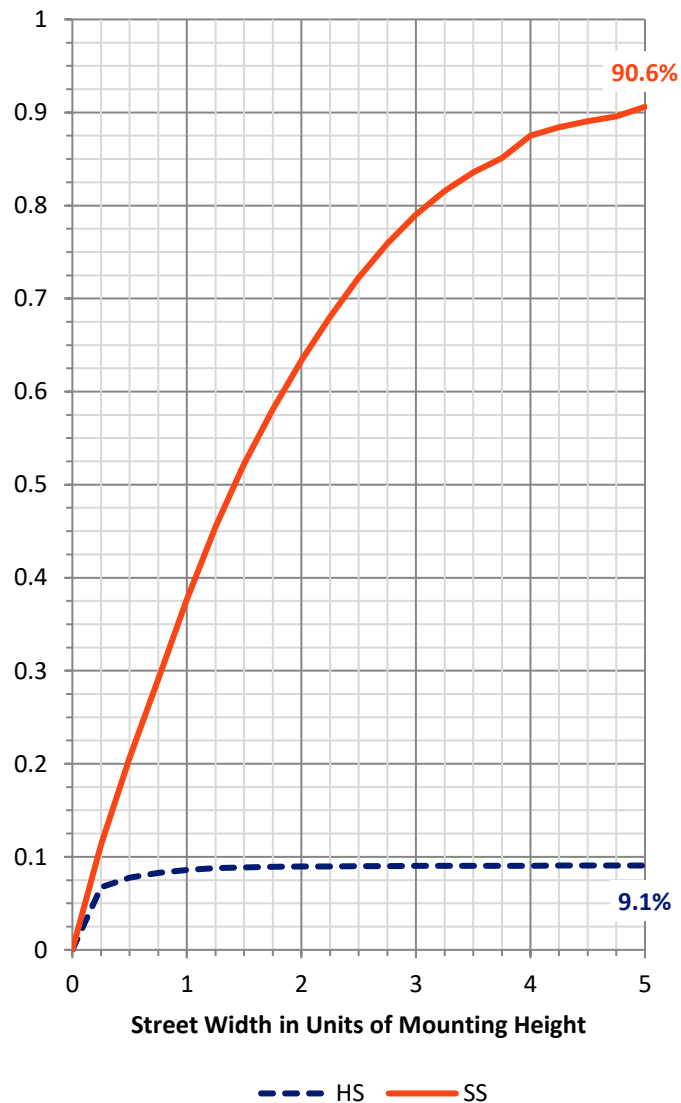
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	386.6	0.0	386.6
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	3854.4	0.0	3854.4
	% Fixture	90.9	0.0	90.9
Total	Lumens	4241.0	0.0	4241.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	1.4
10°-20°	131.4	3.1
20°-30°	196.8	4.6
30°-40°	313.1	7.4
40°-50°	559.2	13.2
50°-60°	867.7	20.5
60°-70°	1153.5	27.2
70°-80°	867.7	20.5
80°-90°	91.2	2.1
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°	4241.0	100.0
0°-180°	4241.0	100.0

Coefficient of Utilization



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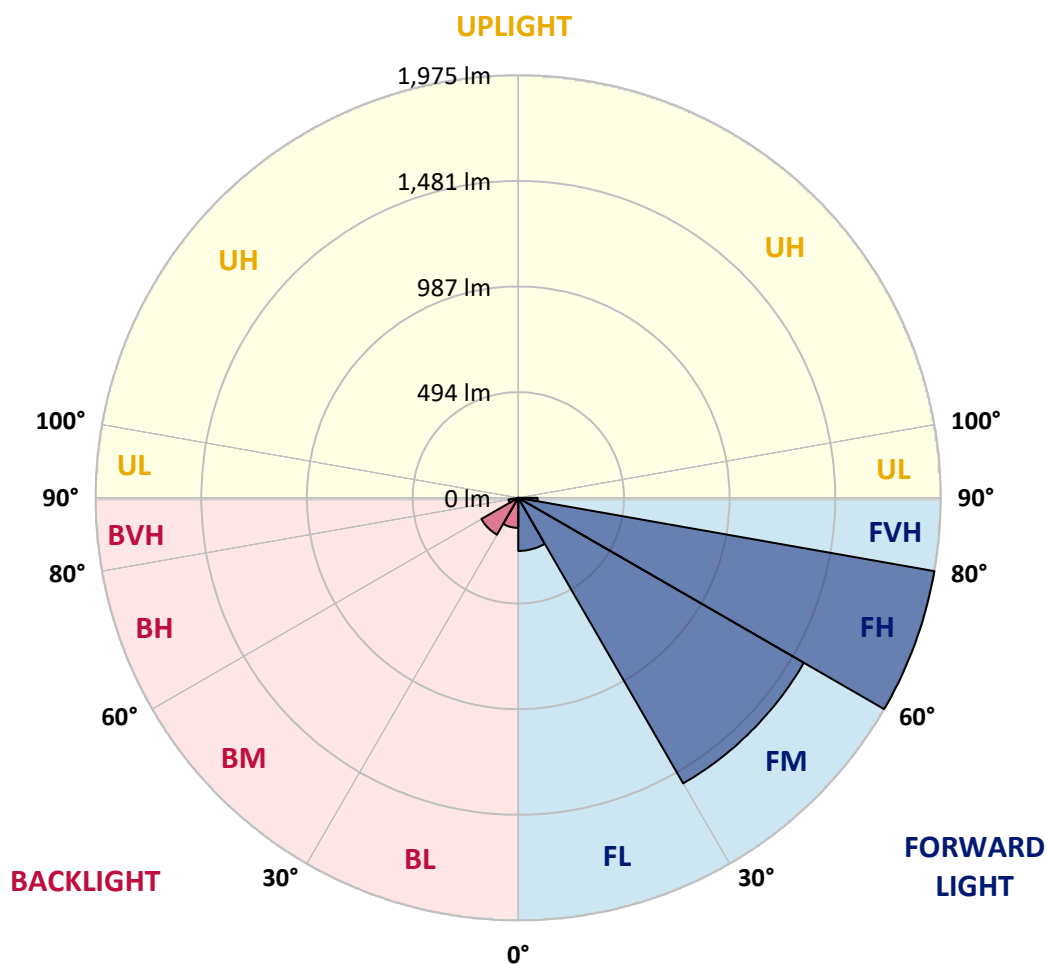
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	248.1	5.9			
FM	(30°-60°)	1541.0	36.3			
FH	(60°-80°)	1974.9	46.6			G2/5000
FVH	(80°-90°)	90.4	2.1			G1/100
BL	(0°-30°)	140.6	3.3	B1/500		
BM	(30°-60°)	199.0	4.7	B0/220		
BH	(60°-80°)	46.3	1.1	B0/110		G0/110
BVH	(80°-90°)	0.8	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°	31°	35°	45°	55°	65°	75°	85°
0°	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7
2.5°	691.5	694.4	697.5	698.1	703.3	703.5	711.0	716.6	722.2	727.6	729.5
5°	620.5	625.3	630.9	636.5	647.5	651.8	670.1	688.8	706.6	723.7	732.0
7.5°	544.8	550.2	558.0	572.0	584.2	592.7	621.6	654.8	688.0	719.3	737.4
10°	475.7	480.6	488.9	503.7	522.6	534.2	573.0	619.1	667.8	715.4	745.4
12.5°	431.7	434.4	438.9	454.7	471.7	484.8	530.4	587.5	651.2	715.1	758.5
15°	423.6	424.4	420.7	427.7	441.0	453.7	499.9	562.0	638.6	718.5	775.5
17.5°	436.4	436.0	423.6	422.7	433.3	443.7	485.0	544.3	629.6	726.1	797.5
20°	455.9	454.5	432.9	429.0	440.2	449.9	484.0	537.7	626.3	739.0	824.3
22.5°	481.9	479.4	445.6	441.4	453.5	463.6	496.8	544.1	629.2	756.2	855.4
25°	514.0	510.3	467.4	462.8	475.0	485.2	519.9	562.6	637.9	777.2	894.9
27.5°	550.4	545.0	502.2	490.4	504.3	514.9	550.6	590.8	651.6	799.4	943.2
30°	584.6	577.6	539.0	519.4	536.5	548.3	583.8	624.5	673.6	833.6	1009.4
32.5°	619.1	611.2	571.7	548.5	563.9	576.7	618.0	670.7	714.9	885.9	1097.4
35°	698.3	690.0	641.7	603.3	603.1	610.3	666.0	734.0	769.5	958.8	1202.4
37.5°	831.8	827.0	780.9	708.1	688.6	680.5	731.3	809.6	848.0	1059.0	1320.9
40°	977.9	973.7	922.1	856.1	826.4	806.5	825.1	914.8	958.8	1181.5	1441.9
42.5°	1142.9	1123.1	1031.0	1011.3	984.7	969.6	952.8	1044.5	1094.9	1314.7	1561.9
45°	1292.7	1259.5	1140.0	1110.1	1104.1	1107.8	1117.1	1218.8	1248.1	1473.0	1681.4
47.5°	1381.9	1355.8	1264.1	1235.4	1233.8	1258.5	1329.0	1415.8	1400.6	1611.0	1786.6
50°	1466.8	1443.2	1367.0	1374.1	1381.7	1415.3	1569.5	1618.3	1539.9	1736.2	1883.1
52.5°	1535.5	1499.4	1459.6	1499.2	1537.0	1591.1	1817.7	1800.1	1638.7	1835.8	1965.7
55°	1575.1	1558.8	1578.1	1617.9	1688.9	1776.9	2052.0	1951.4	1710.9	1926.7	2020.7
57.5°	1720.4	1688.3	1726.6	1761.1	1853.7	1976.7	2252.7	2064.1	1763.0	1982.9	2033.4
60°	1896.2	1870.3	1892.9	1950.2	2075.1	2219.7	2440.3	2156.0	1790.1	2019.1	2000.6
62.5°	2175.9	2141.7	2127.6	2191.7	2357.3	2515.3	2582.7	2219.7	1784.1	2003.1	1888.1
65°	2550.7	2515.3	2452.2	2510.3	2720.9	2832.4	2741.9	2233.2	1742.6	1873.8	1603.8
67.5°	2934.7	2908.9	2855.0	2952.9	3143.0	3178.9	2910.2	2200.4	1609.0	1519.3	1133.1
70°	3188.3	3177.3	3212.3	3429.0	3598.6	3588.2	3064.6	2024.2	1254.1	934.3	560.5
72.5°	3005.4	3058.2	3317.1	3710.0	3917.1	3832.4	2985.3	1554.4	716.8	359.4	162.1
73°	2853.9	2921.4	3270.0	3720.6	3942.2	3849.5	2918.7	1426.8	611.0	283.7	122.9
75°	1985.4	2068.2	2707.2	3465.1	3824.8	3667.7	2432.9	873.3	283.1	125.8	49.6
77.5°	964.0	1025.2	1490.7	2503.6	2974.5	2865.6	1514.5	325.4	127.8	78.7	22.8
80°	359.9	400.1	647.1	1274.2	1719.0	1764.0	666.2	123.1	85.1	63.3	11.6
82.5°	94.2	105.0	238.7	568.2	881.0	922.1	210.0	62.1	62.3	52.1	7.1
85°	30.1	34.4	74.5	255.1	415.1	364.4	54.8	30.1	45.2	38.8	3.9
87.5°	3.7	4.8	23.7	60.0	91.5	50.8	8.5	8.9	19.3	21.6	2.3
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°	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7
2.5°	731.3	730.3	730.5	725.1	721.6	714.5	707.3	703.9	700.4	699.0	700.4
5°	735.1	733.2	727.8	711.2	693.6	670.7	649.4	633.2	612.8	607.2	613.0
7.5°	740.9	737.1	721.4	687.5	648.3	604.7	555.8	520.1	490.8	471.9	478.8
10°	749.4	742.3	710.6	653.1	582.9	505.7	436.2	382.1	343.7	327.9	327.3
12.5°	763.7	750.4	697.3	608.3	503.1	400.1	309.0	250.3	219.2	199.0	198.6
15°	779.5	760.0	680.5	554.5	410.1	286.6	199.0	154.4	134.3	127.8	127.0
17.5°	798.8	771.0	658.7	488.3	312.7	189.9	129.9	117.0	116.2	115.6	115.6
20°	823.1	784.0	630.7	412.6	221.8	126.8	110.4	111.2	111.7	110.8	111.0
22.5°	851.3	797.3	597.3	331.2	150.0	106.0	105.6	106.7	107.1	106.7	106.9
25°	884.1	812.7	556.6	245.9	108.3	100.7	101.7	103.1	104.2	104.2	104.2
27.5°	924.8	831.4	507.6	171.6	93.6	95.0	98.0	100.7	102.1	102.5	102.5
30°	977.7	854.6	448.9	117.7	85.1	87.6	93.0	98.2	100.9	101.3	101.5
32.5°	1044.5	880.8	380.8	87.0	77.8	79.7	85.5	94.2	99.4	100.2	100.2
35°	1121.1	911.1	307.6	75.7	72.6	73.3	77.8	87.8	96.9	99.2	99.4
37.5°	1204.9	940.9	233.9	70.8	68.3	68.3	71.6	80.1	90.9	98.0	98.8
40°	1283.2	959.0	163.9	66.8	64.3	64.3	67.2	73.5	83.6	94.2	96.5
42.5°	1355.4	965.2	114.1	63.1	60.6	61.2	63.7	68.7	76.4	87.0	89.0
45°	1429.7	964.2	83.2	58.7	56.9	58.7	60.6	64.3	69.9	76.0	76.4
47.5°	1485.7	955.5	66.0	54.6	53.3	55.8	57.5	60.0	63.1	62.7	62.7
50°	1538.2	934.3	53.1	49.0	49.8	52.7	53.5	54.4	54.6	50.6	50.2
52.5°	1578.1	901.3	42.5	43.0	46.3	49.2	48.4	47.1	45.0	40.3	39.4
55°	1591.3	837.8	33.4	35.5	41.1	44.8	41.7	39.0	35.1	31.1	30.3
57.5°	1567.3	755.8	27.2	27.6	34.7	37.8	34.2	31.1	26.8	23.5	22.8
60°	1516.2	664.7	22.4	20.8	26.8	29.5	27.2	24.1	20.1	17.6	17.4
62.5°	1414.9	567.6	18.5	16.2	20.3	22.6	21.2	18.9	15.6	13.9	13.7
65°	1202.0	454.1	14.9	13.1	15.8	17.6	16.4	14.7	12.2	11.0	10.8
67.5°	839.0	306.9	12.2	10.8	12.5	13.9	12.9	12.0	9.8	9.5	9.8
70°	404.7	148.0	10.2	8.7	9.8	10.8	10.4	9.8	9.3	10.8	12.5
72.5°	116.0	49.6	8.1	7.3	7.9	8.5	8.9	8.7	10.2	13.1	15.1
73°	89.2	40.1	7.7	6.8	7.5	8.3	8.7	8.5	10.4	13.3	15.1
75°	38.2	19.3	5.8	5.6	6.2	7.3	7.7	7.7	10.4	13.5	14.5
77.5°	17.2	10.4	3.7	4.4	5.4	5.8	6.4	6.4	8.3	10.4	10.4
80°	9.8	5.6	2.9	3.3	3.9	3.9	3.9	3.5	3.7	4.2	4.6
82.5°	6.2	3.7	2.3	2.7	2.5	2.1	1.7	1.7	1.5	1.7	2.1
85°	3.5	2.1	2.1	1.7	1.0	0.8	1.0	0.8	0.2	0.0	0.2
87.5°	2.1	1.2	0.6	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)