

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: P322725

Luminaire Tested: **GAN-SA1C-830-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322725
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-SA1C-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA 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: 4180 lumens
Efficiency: N/A
Efficacy: 70.8 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

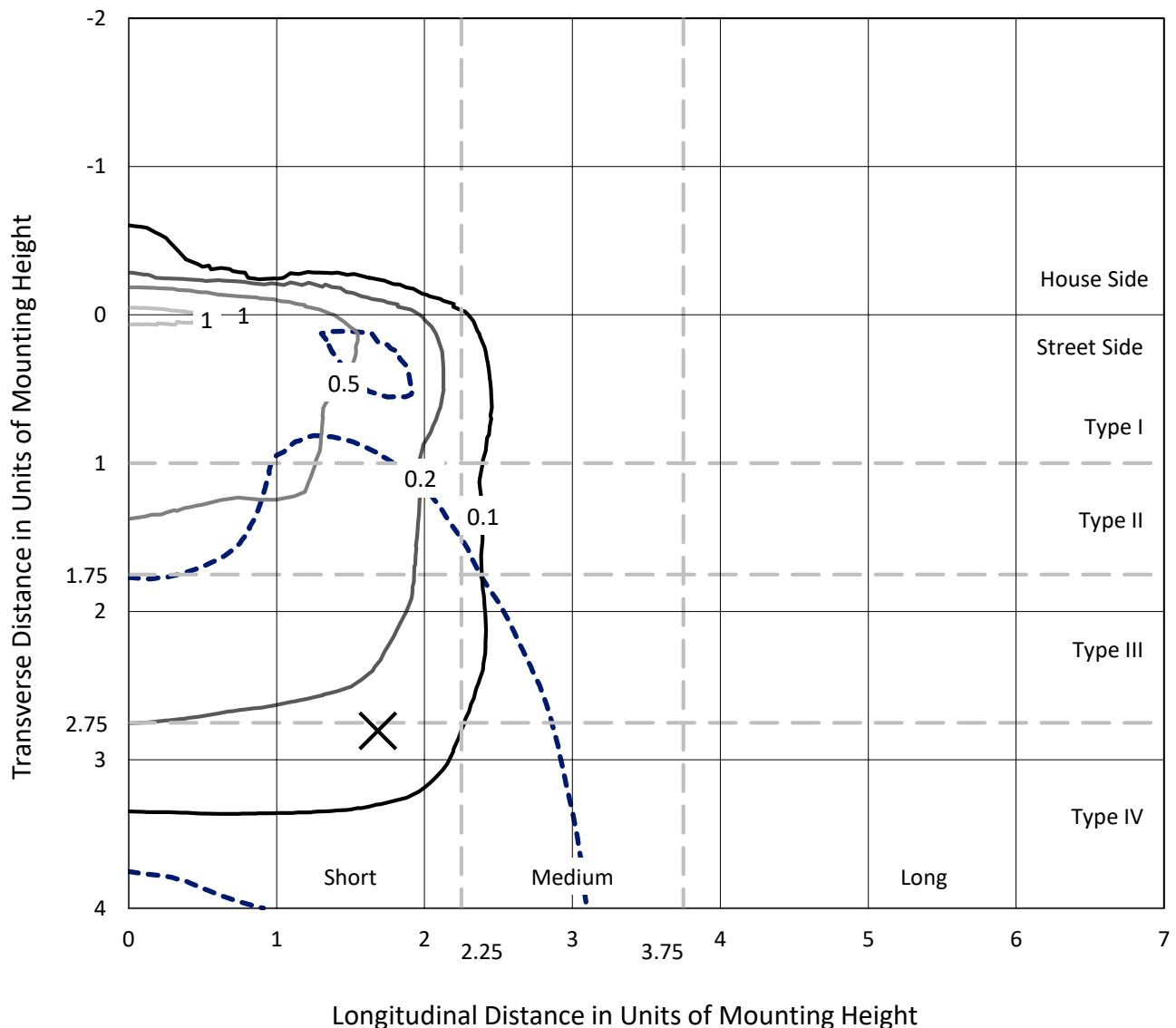
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

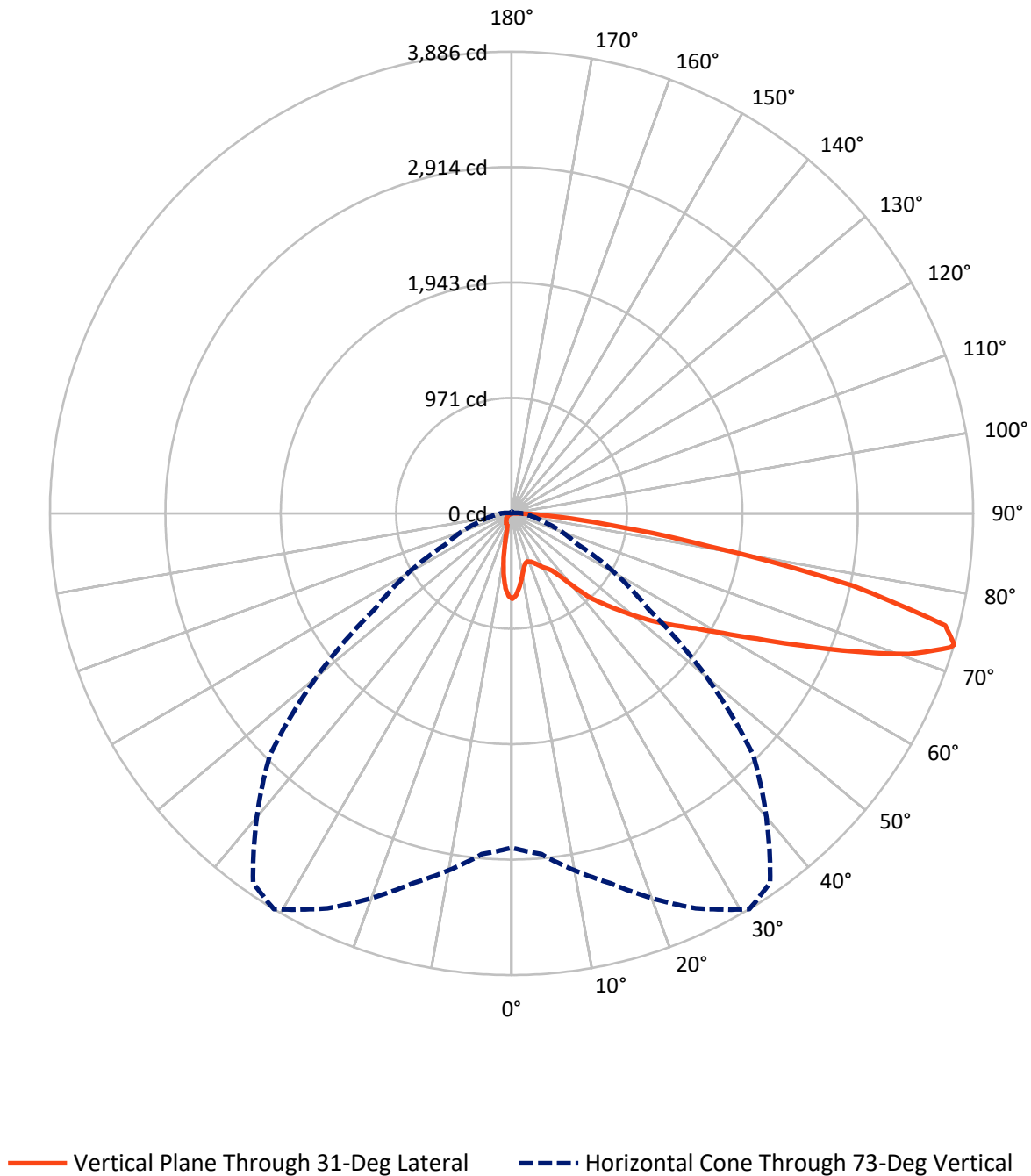
× Max cd
 - - - 1/2 Max cd



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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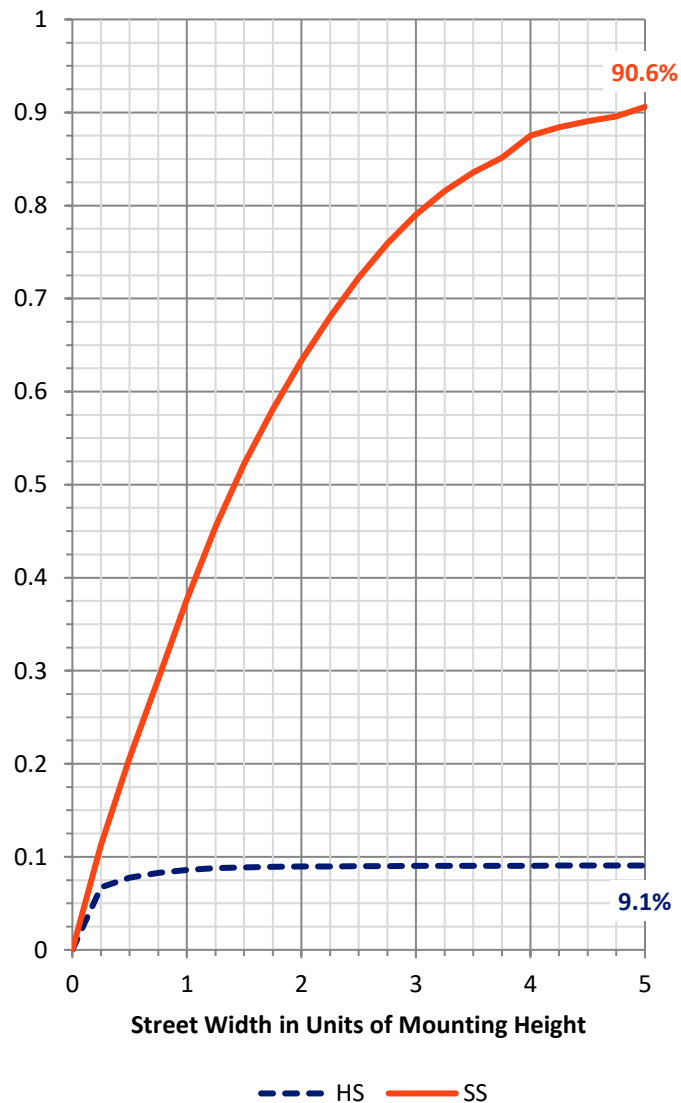
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	381.0	0.0	381.0
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	3799.0	0.0	3799.0
	% Fixture	90.9	0.0	90.9
Total	Lumens	4180.0	0.0	4180.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	1.4
10°-20°	129.5	3.1
20°-30°	194.0	4.6
30°-40°	308.6	7.4
40°-50°	551.1	13.2
50°-60°	855.2	20.5
60°-70°	1136.9	27.2
70°-80°	855.2	20.5
80°-90°	89.9	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°	4180.0	100.0
0°-180°	4180.0	100.0

Coefficient of Utilization



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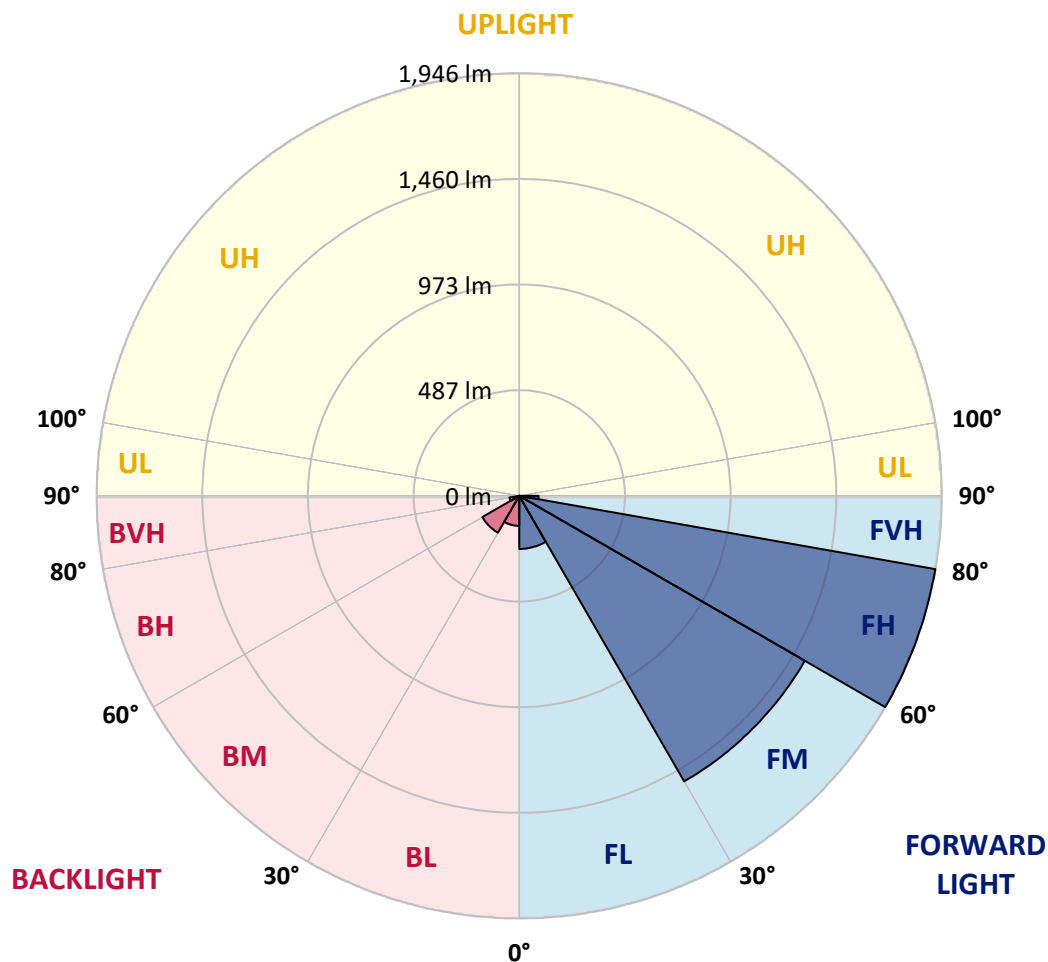
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	244.5	5.9			
FM	(30°-60°)	1518.9	36.3			
FH	(60°-80°)	1946.5	46.6			G2/5000
FVH	(80°-90°)	89.1	2.1			G1/100
BL	(0°-30°)	138.6	3.3	B1/500		
BM	(30°-60°)	196.1	4.7	B0/220		
BH	(60°-80°)	45.6	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°	719.2	719.2	719.2	719.2	719.2	719.2	719.2	719.2	719.2	719.2	719.2
2.5°	681.5	684.4	687.5	688.1	693.2	693.4	700.8	706.3	711.8	717.1	719.0
5°	611.6	616.3	621.8	627.3	638.2	642.5	660.5	678.9	696.5	713.2	721.4
7.5°	536.9	542.2	550.0	563.7	575.8	584.2	612.6	645.3	678.1	709.0	726.7
10°	468.8	473.7	481.9	496.4	515.0	526.5	564.7	610.2	658.2	705.1	734.7
12.5°	425.5	428.1	432.6	448.2	464.9	477.8	522.8	579.1	641.9	704.9	747.6
15°	417.5	418.3	414.6	421.6	434.7	447.1	492.7	553.9	629.4	708.1	764.4
17.5°	430.2	429.7	417.5	416.7	427.1	437.3	478.0	536.5	620.6	715.7	786.1
20°	449.4	448.0	426.7	422.8	433.8	443.5	477.0	530.0	617.3	728.4	812.4
22.5°	475.0	472.5	439.2	435.1	446.9	457.0	489.7	536.3	620.2	745.4	843.1
25°	506.7	503.0	460.6	456.1	468.2	478.2	512.4	554.5	628.8	766.0	882.0
27.5°	542.5	537.1	495.0	483.3	497.0	507.5	542.7	582.3	642.3	787.9	929.7
30°	576.2	569.2	531.2	512.0	528.7	540.4	575.4	615.5	664.0	821.7	994.9
32.5°	610.2	602.4	563.5	540.6	555.7	568.4	609.1	661.1	704.7	873.2	1081.6
35°	688.3	680.1	632.5	594.6	594.4	601.6	656.4	723.5	758.5	945.0	1185.1
37.5°	819.8	815.1	769.7	697.9	678.7	670.7	720.8	797.9	835.8	1043.8	1301.9
40°	963.8	959.7	908.8	843.7	814.5	794.9	813.3	901.6	945.0	1164.5	1421.2
42.5°	1126.4	1107.0	1016.2	996.7	970.6	955.6	939.1	1029.5	1079.2	1295.8	1539.4
45°	1274.1	1241.4	1123.6	1094.1	1088.2	1091.9	1101.1	1201.3	1230.1	1451.9	1657.2
47.5°	1362.1	1336.3	1245.9	1217.7	1216.0	1240.4	1309.9	1395.4	1380.5	1587.9	1760.9
50°	1445.7	1422.4	1347.3	1354.3	1361.9	1395.0	1547.0	1595.0	1517.7	1711.2	1856.0
52.5°	1513.4	1477.8	1438.6	1477.6	1514.9	1568.2	1791.6	1774.2	1615.1	1809.4	1937.4
55°	1552.5	1536.3	1555.4	1594.6	1664.6	1751.3	2022.5	1923.3	1686.3	1899.0	1991.6
57.5°	1695.7	1664.0	1701.8	1735.8	1827.0	1948.3	2220.3	2034.4	1737.6	1954.4	2004.1
60°	1868.9	1843.4	1865.6	1922.1	2045.2	2187.8	2405.2	2125.0	1764.4	1990.0	1971.8
62.5°	2144.6	2110.9	2097.0	2160.2	2323.4	2479.1	2545.6	2187.8	1758.5	1974.3	1860.9
65°	2514.1	2479.1	2416.9	2474.2	2681.8	2791.6	2702.4	2201.1	1717.6	1846.8	1580.7
67.5°	2892.5	2867.1	2813.9	2910.5	3097.8	3133.2	2868.3	2168.8	1585.8	1497.5	1116.8
70°	3142.4	3131.6	3166.1	3379.7	3546.8	3536.6	3020.5	1995.1	1236.1	920.9	552.5
72.5°	2962.2	3014.2	3269.4	3656.6	3860.8	3777.3	2942.4	1532.0	706.5	354.3	159.7
73°	2812.9	2879.4	3223.0	3667.1	3885.5	3794.1	2876.7	1406.2	602.2	279.6	121.1
75°	1956.9	2038.5	2668.3	3415.3	3769.8	3614.9	2397.9	860.7	279.0	124.0	48.9
77.5°	950.1	1010.4	1469.2	2467.6	2931.7	2824.3	1492.8	320.7	126.0	77.5	22.5
80°	354.7	394.4	637.8	1255.9	1694.2	1738.6	656.6	121.3	83.9	62.4	11.5
82.5°	92.9	103.5	235.2	560.0	868.3	908.8	207.0	61.2	61.4	51.3	7.0
85°	29.7	34.0	73.4	251.4	409.1	359.2	54.0	29.7	44.6	38.2	3.9
87.5°	3.7	4.7	23.3	59.1	90.2	50.1	8.4	8.8	19.0	21.3	2.2
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°	719.2	719.2	719.2	719.2	719.2	719.2	719.2	719.2	719.2	719.2	719.2
2.5°	720.8	719.8	720.0	714.7	711.2	704.2	697.1	693.8	690.3	688.9	690.3
5°	724.5	722.7	717.3	701.0	683.6	661.1	640.0	624.1	604.0	598.5	604.2
7.5°	730.2	726.5	711.0	677.7	639.0	596.0	547.8	512.6	483.7	465.1	471.9
10°	738.6	731.7	700.4	643.7	574.6	498.5	430.0	376.6	338.7	323.2	322.6
12.5°	752.7	739.6	687.3	599.5	495.8	394.4	304.6	246.7	216.0	196.2	195.7
15°	768.3	749.0	670.7	546.5	404.2	282.5	196.2	152.2	132.3	126.0	125.2
17.5°	787.3	759.9	649.2	481.3	308.2	187.2	128.0	115.4	114.5	113.9	113.9
20°	811.2	772.8	621.6	406.6	218.7	125.0	108.8	109.6	110.0	109.2	109.4
22.5°	839.0	785.9	588.7	326.5	147.9	104.5	104.1	105.1	105.5	105.1	105.3
25°	871.4	801.0	548.6	242.4	106.8	99.2	100.2	101.7	102.7	102.7	102.7
27.5°	911.4	819.4	500.3	169.2	92.2	93.7	96.5	99.2	100.6	101.0	101.0
30°	963.6	842.3	442.4	116.0	83.9	86.3	91.6	96.7	99.4	99.8	100.0
32.5°	1029.5	868.1	375.3	85.7	76.7	78.5	84.3	92.9	98.0	98.8	98.8
35°	1104.9	897.9	303.1	74.7	71.6	72.2	76.7	86.5	95.5	97.8	98.0
37.5°	1187.6	927.4	230.5	69.7	67.3	67.3	70.6	79.0	89.6	96.5	97.4
40°	1264.7	945.2	161.6	65.9	63.4	63.4	66.3	72.4	82.4	92.9	95.1
42.5°	1335.9	951.3	112.5	62.2	59.7	60.3	62.8	67.7	75.3	85.7	87.7
45°	1409.1	950.3	82.0	57.9	56.0	57.9	59.7	63.4	68.9	74.9	75.3
47.5°	1464.3	941.7	65.0	53.8	52.6	55.0	56.7	59.1	62.2	61.8	61.8
50°	1516.1	920.9	52.4	48.3	49.1	52.0	52.8	53.6	53.8	49.9	49.5
52.5°	1555.4	888.3	41.9	42.3	45.6	48.5	47.7	46.4	44.4	39.7	38.9
55°	1568.4	825.7	32.9	35.0	40.5	44.2	41.1	38.5	34.6	30.7	29.9
57.5°	1544.7	745.0	26.8	27.2	34.2	37.2	33.7	30.7	26.4	23.1	22.5
60°	1494.4	655.2	22.1	20.5	26.4	29.0	26.8	23.7	19.8	17.4	17.2
62.5°	1394.6	559.4	18.2	16.0	20.0	22.3	20.9	18.6	15.3	13.7	13.5
65°	1184.7	447.5	14.7	12.9	15.5	17.4	16.2	14.5	12.1	10.8	10.6
67.5°	827.0	302.5	12.1	10.6	12.3	13.7	12.7	11.9	9.6	9.4	9.6
70°	398.9	145.8	10.0	8.6	9.6	10.6	10.2	9.6	9.2	10.6	12.3
72.5°	114.3	48.9	8.0	7.2	7.8	8.4	8.8	8.6	10.0	12.9	14.9
73°	88.0	39.5	7.6	6.7	7.4	8.2	8.6	8.4	10.2	13.1	14.9
75°	37.6	19.0	5.7	5.5	6.1	7.2	7.6	7.6	10.2	13.3	14.3
77.5°	17.0	10.2	3.7	4.3	5.3	5.7	6.3	6.3	8.2	10.2	10.2
80°	9.6	5.5	2.9	3.3	3.9	3.9	3.9	3.5	3.7	4.1	4.5
82.5°	6.1	3.7	2.2	2.7	2.5	2.0	1.6	1.6	1.4	1.6	2.0
85°	3.5	2.0	2.0	1.6	1.0	0.8	1.0	0.8	0.2	0.0	0.2
87.5°	2.0	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)