

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: P321515

Luminaire Tested: **GAN-SA1B-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3848 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

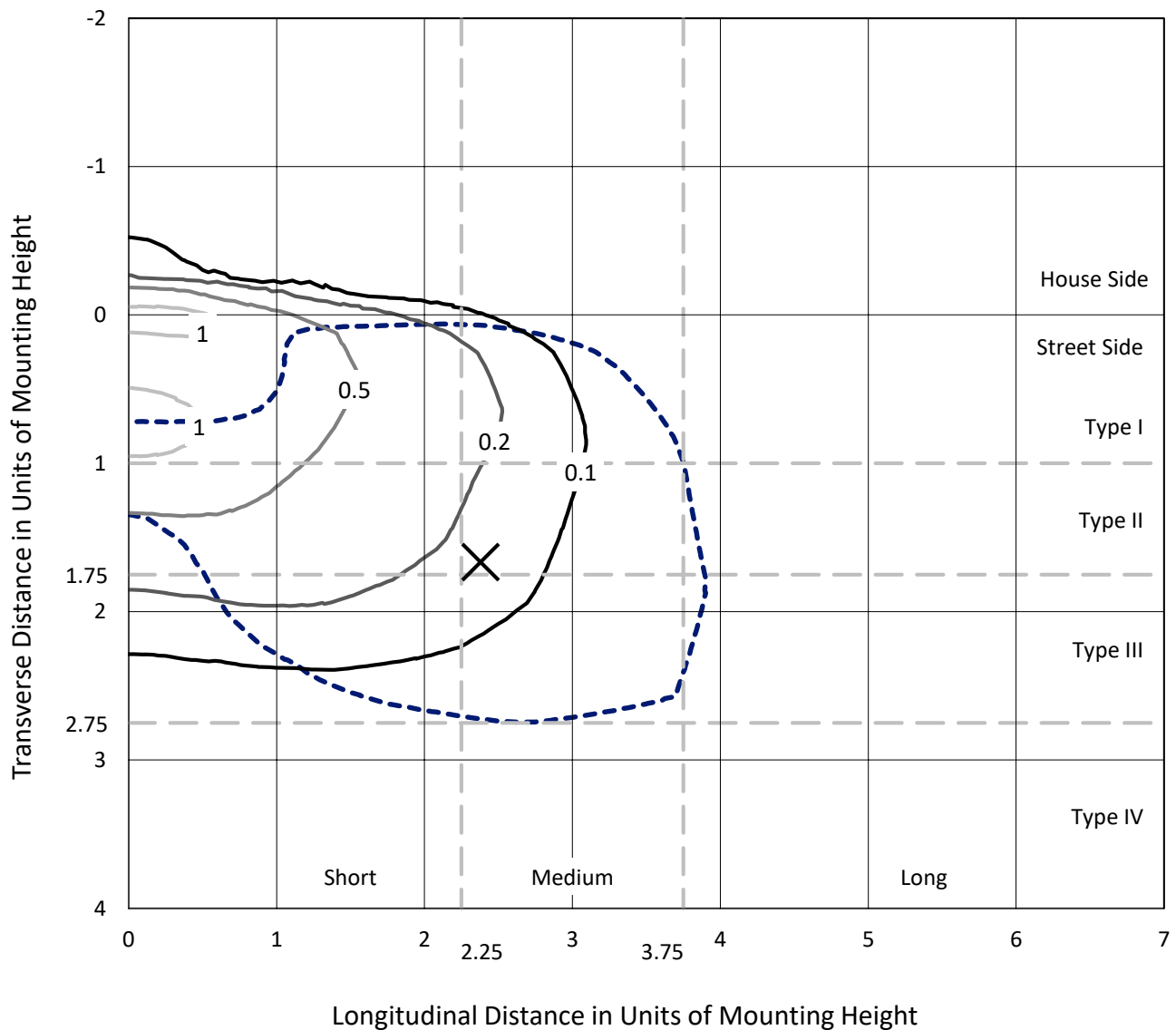
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

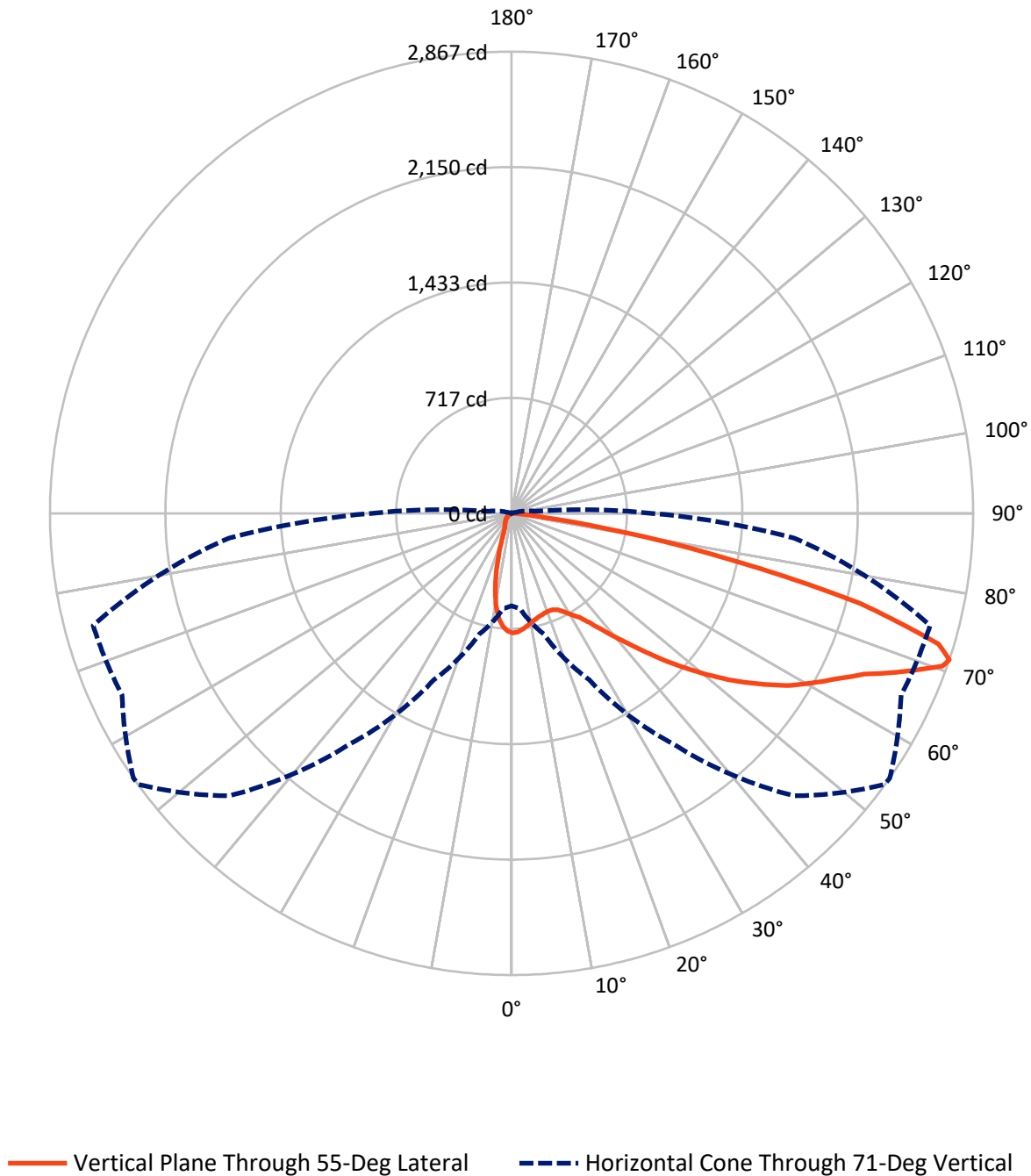
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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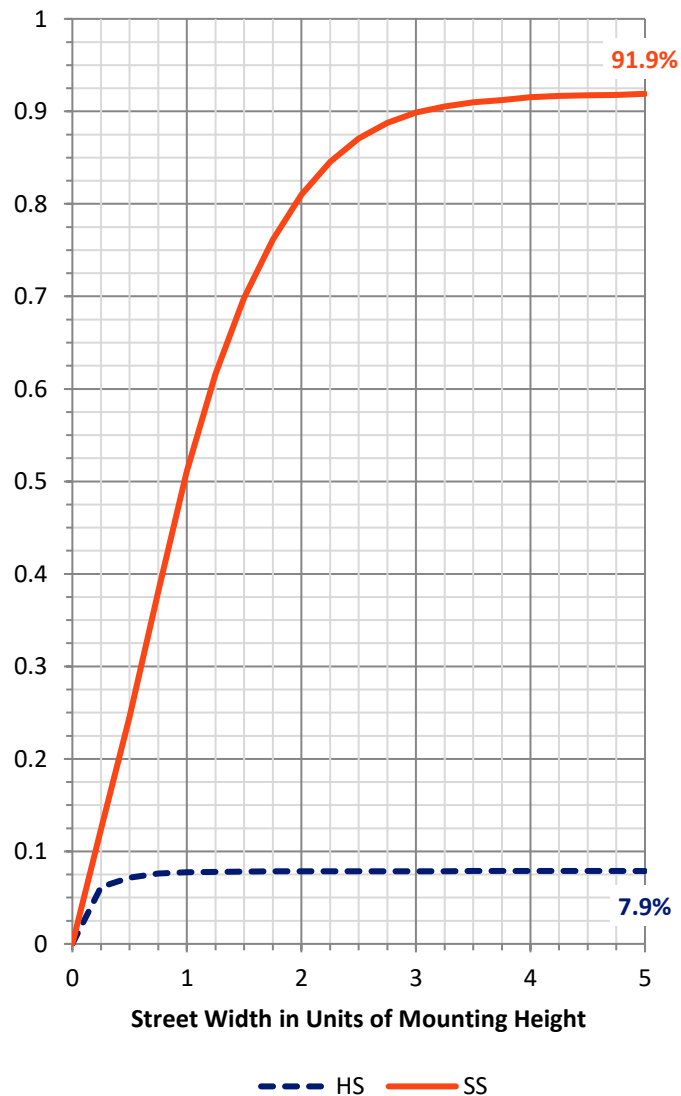
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	304.6	0.0	304.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	3543.3	0.0	3543.3
	% Fixture	92.1	0.0	92.1
Total	Lumens	3848.0	0.0	3848.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	1.6
10°-20°	142.8	3.7
20°-30°	229.6	6.0
30°-40°	390.0	10.1
40°-50°	605.4	15.7
50°-60°	813.9	21.2
60°-70°	995.7	25.9
70°-80°	582.1	15.1
80°-90°	25.2	0.7
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°	3848.0	100.0
0°-180°	3848.0	100.0

Coefficient of Utilization



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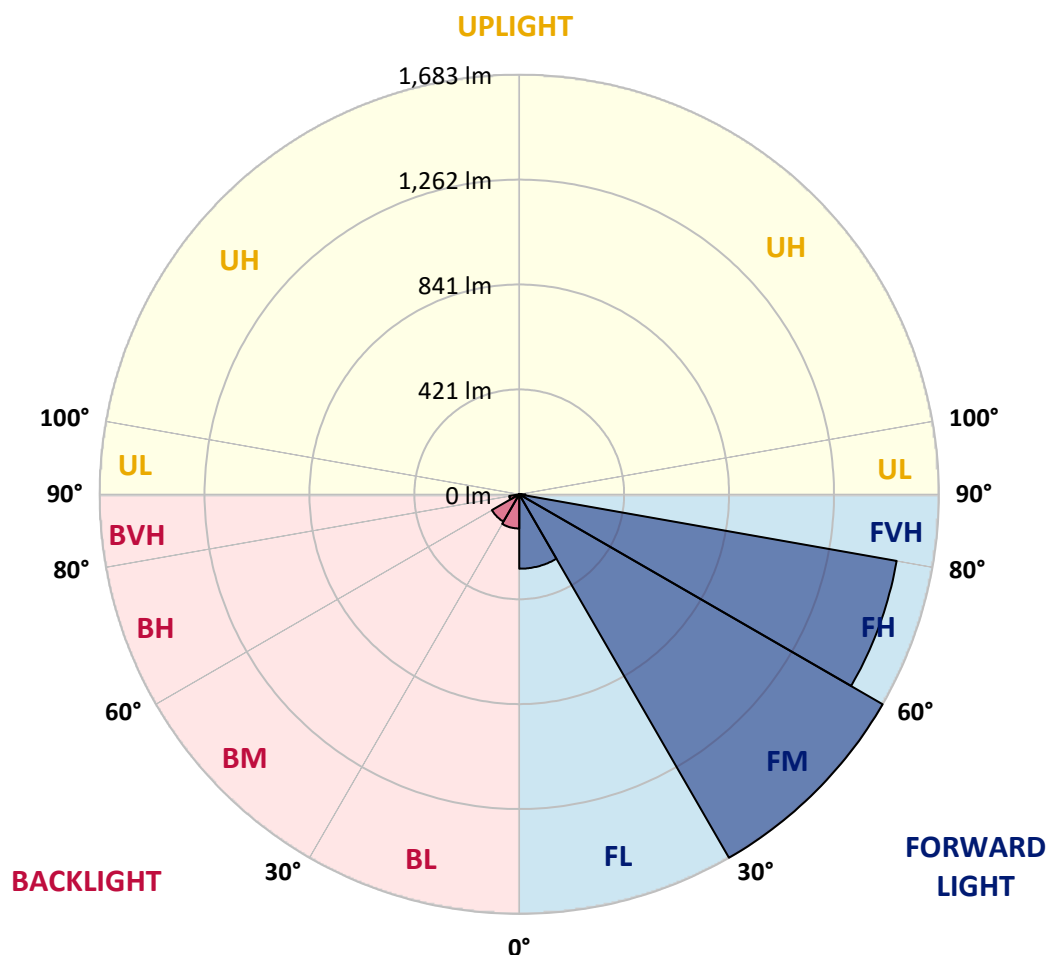
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	298.6	7.8			
FM	(30°-60°)	1683.0	43.7			
FH	(60°-80°)	1537.0	39.9			G1/1800
FVH	(80°-90°)	24.8	0.6			G1/100
BL	(0°-30°)	137.1	3.6	B1/500		
BM	(30°-60°)	126.3	3.3	B0/220		
BH	(60°-80°)	40.8	1.1	B0/110		G0/110
BVH	(80°-90°)	0.4	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-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1
2.5°	720.3	721.2	724.3	725.7	729.0	734.5	737.3	737.4	741.9	743.7	745.0
5°	669.4	674.5	679.7	685.3	695.3	708.6	721.7	722.9	737.4	748.1	753.8
7.5°	625.5	630.1	636.4	645.2	659.3	680.2	702.2	704.8	732.3	756.6	769.4
10°	580.4	584.2	593.2	606.1	625.6	653.6	683.2	687.5	727.6	768.0	790.5
12.5°	532.2	534.4	545.3	564.0	592.6	628.2	667.1	672.8	724.6	781.1	815.4
15°	495.5	496.6	506.9	526.3	559.1	605.4	654.7	661.6	725.3	796.9	842.5
17.5°	486.2	486.7	492.3	505.6	534.6	585.0	644.8	653.3	727.4	812.3	869.8
20°	524.0	520.4	514.7	512.6	525.1	572.8	638.9	648.5	730.2	825.9	894.3
22.5°	627.9	617.2	593.5	561.9	542.7	573.6	640.5	650.0	739.0	842.7	922.7
25°	782.0	767.2	726.9	664.7	604.9	598.5	653.5	663.1	756.1	862.7	949.8
27.5°	957.4	942.7	893.5	804.6	702.7	647.8	683.2	692.2	781.5	880.5	970.5
30°	1125.3	1121.2	1063.1	962.2	825.7	727.6	721.5	729.1	800.3	891.2	986.9
32.5°	1267.7	1261.1	1214.5	1116.3	966.5	823.5	766.6	768.9	814.5	905.0	1008.4
35°	1399.7	1391.6	1350.6	1257.9	1111.0	940.6	836.1	832.8	845.4	932.9	1039.5
37.5°	1515.0	1522.4	1476.9	1388.7	1240.6	1062.4	929.7	919.9	893.8	978.1	1084.6
40°	1611.4	1611.4	1587.7	1514.1	1380.5	1188.4	1035.7	1022.7	966.5	1047.9	1141.7
42.5°	1646.1	1653.5	1662.3	1620.7	1505.8	1319.4	1153.7	1140.2	1069.0	1146.9	1214.0
45°	1648.2	1659.9	1705.0	1704.8	1619.0	1449.5	1286.7	1280.3	1200.3	1274.1	1303.5
47.5°	1619.0	1633.7	1708.0	1750.1	1708.6	1570.6	1432.2	1424.2	1354.6	1429.9	1397.1
50°	1573.9	1590.1	1676.5	1767.9	1769.6	1676.0	1585.5	1573.5	1524.5	1608.1	1493.9
52.5°	1493.2	1524.6	1648.3	1772.1	1809.7	1767.0	1731.3	1726.1	1714.5	1779.7	1570.9
55°	1320.6	1355.5	1577.7	1773.4	1846.9	1847.7	1868.0	1869.3	1892.7	1940.0	1628.3
57.5°	1239.0	1258.7	1454.3	1780.0	1902.0	1939.3	2007.2	2017.9	2054.0	2092.2	1693.8
60°	1187.7	1211.0	1393.5	1771.0	1988.6	2059.4	2136.3	2139.9	2178.6	2249.3	1782.4
62.5°	1146.8	1169.7	1355.1	1736.5	2085.8	2203.8	2262.4	2262.8	2291.8	2436.4	1883.2
65°	1045.7	1065.0	1277.6	1697.6	2150.1	2346.7	2408.9	2406.7	2430.4	2633.7	2000.1
67.5°	899.5	914.4	1119.1	1550.2	2125.9	2476.7	2630.1	2622.7	2594.0	2804.3	2046.1
70°	695.4	700.8	882.1	1291.9	1899.2	2526.6	2843.8	2840.0	2694.4	2773.7	1877.6
71°	574.8	592.5	777.3	1140.2	1747.3	2480.5	2864.6	2866.8	2669.1	2690.4	1761.7
72.5°	333.8	348.8	563.4	875.7	1483.5	2288.0	2757.1	2773.3	2551.3	2447.1	1504.8
75°	71.5	76.5	208.9	423.8	816.1	1603.6	2176.2	2234.1	2079.4	1664.8	906.9
77.5°	49.8	53.7	89.5	192.3	269.7	792.4	1351.8	1417.2	1242.3	625.6	290.3
80°	39.4	43.9	69.8	95.0	72.9	255.5	633.2	673.2	414.3	139.6	48.9
82.5°	21.9	26.1	54.4	51.3	28.0	48.6	177.3	200.4	82.9	28.2	11.6
85°	6.4	7.8	35.1	37.3	11.9	9.3	30.2	37.5	15.7	7.4	5.2
87.5°	0.0	0.0	16.9	14.3	3.5	1.4	2.8	3.1	3.1	3.1	3.5
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°	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1
2.5°	745.0	746.2	741.9	736.2	730.2	722.7	715.0	708.9	708.8	705.8	702.9
5°	754.2	753.5	741.6	723.4	702.0	679.7	658.5	634.5	626.5	616.7	613.4
7.5°	771.1	766.3	741.1	701.3	654.3	607.7	559.5	510.9	490.2	471.5	468.2
10°	792.4	783.2	737.8	668.1	581.9	495.9	423.1	357.1	328.1	305.8	304.8
12.5°	814.5	800.5	728.6	618.0	487.1	366.1	282.3	217.4	193.2	177.6	179.0
15°	837.6	816.7	708.9	550.5	379.1	248.5	173.5	135.3	125.6	121.6	122.7
17.5°	861.3	828.0	681.5	469.1	272.5	160.3	120.1	109.4	109.4	110.2	110.6
20°	881.9	834.0	641.0	377.9	184.7	116.8	105.1	103.5	104.4	105.7	105.9
22.5°	902.3	834.4	588.3	285.4	129.2	102.3	100.0	99.3	99.9	101.4	101.6
25°	918.9	830.2	522.3	203.0	103.2	96.4	95.4	95.0	95.4	97.3	97.3
27.5°	925.6	815.2	441.8	142.7	92.4	89.8	89.5	89.8	90.4	91.7	91.9
30°	926.3	788.9	354.0	103.3	83.8	81.0	81.7	82.9	82.4	82.1	82.4
32.5°	928.0	758.5	268.5	85.0	76.5	72.2	71.4	71.4	69.3	68.1	67.4
35°	933.7	722.7	194.7	76.4	69.1	64.1	60.8	57.0	53.0	51.0	50.5
37.5°	942.7	685.3	139.4	70.7	62.5	56.8	50.6	43.9	38.2	36.6	36.6
40°	959.1	646.6	103.2	66.2	57.4	50.3	40.9	32.1	27.0	26.1	26.1
42.5°	985.0	605.8	82.2	62.2	52.9	43.5	31.3	23.3	19.5	19.0	18.8
45°	1012.0	560.9	71.9	58.4	48.0	35.8	23.2	17.3	15.0	14.5	14.5
47.5°	1038.9	513.0	66.9	54.8	43.4	27.8	17.3	13.6	12.6	12.6	12.8
50°	1061.7	463.1	63.2	50.8	37.3	21.1	13.6	11.6	11.2	11.9	12.1
52.5°	1067.4	414.0	58.7	45.8	29.9	16.1	11.2	10.2	10.2	10.2	10.2
55°	1064.0	376.0	52.9	39.6	22.1	12.8	9.7	9.0	8.8	8.8	8.8
57.5°	1075.7	353.5	42.3	30.8	15.9	10.4	8.5	7.9	7.6	7.4	7.4
60°	1099.4	338.8	30.2	22.1	11.9	8.6	7.3	6.7	6.2	5.9	5.9
62.5°	1130.9	326.0	22.5	16.4	9.2	6.9	6.0	5.5	4.8	4.5	4.5
65°	1155.1	303.2	17.1	12.3	6.9	5.5	4.7	4.5	3.5	3.1	2.9
67.5°	1118.1	253.1	13.8	9.0	5.2	4.3	3.6	3.5	2.1	1.7	1.7
70°	958.9	176.2	11.1	6.6	3.8	3.5	2.9	2.2	1.6	1.4	1.4
71°	869.6	147.2	10.0	5.5	3.3	3.3	2.8	1.9	1.4	1.2	1.2
72.5°	722.4	104.5	8.5	4.3	2.9	3.5	2.9	1.7	1.4	1.2	1.0
75°	419.3	43.7	5.9	2.9	2.2	4.1	3.8	1.6	1.0	0.9	0.9
77.5°	126.1	16.1	3.3	1.9	1.7	3.6	4.3	1.4	0.5	0.2	0.2
80°	23.0	6.9	2.1	1.2	1.2	2.2	3.3	0.7	0.0	0.0	0.0
82.5°	8.1	3.5	1.2	0.7	0.5	1.0	1.6	0.0	0.0	0.0	0.0
85°	4.7	2.4	0.7	0.3	0.0	0.2	0.3	0.0	0.0	0.0	0.0
87.5°	3.1	0.7	0.0	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)