

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: P321715

Luminaire Tested: **GAN-SA1B-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321715
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-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 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: 3382 lumens
Efficiency: N/A
Efficacy: 76.9 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

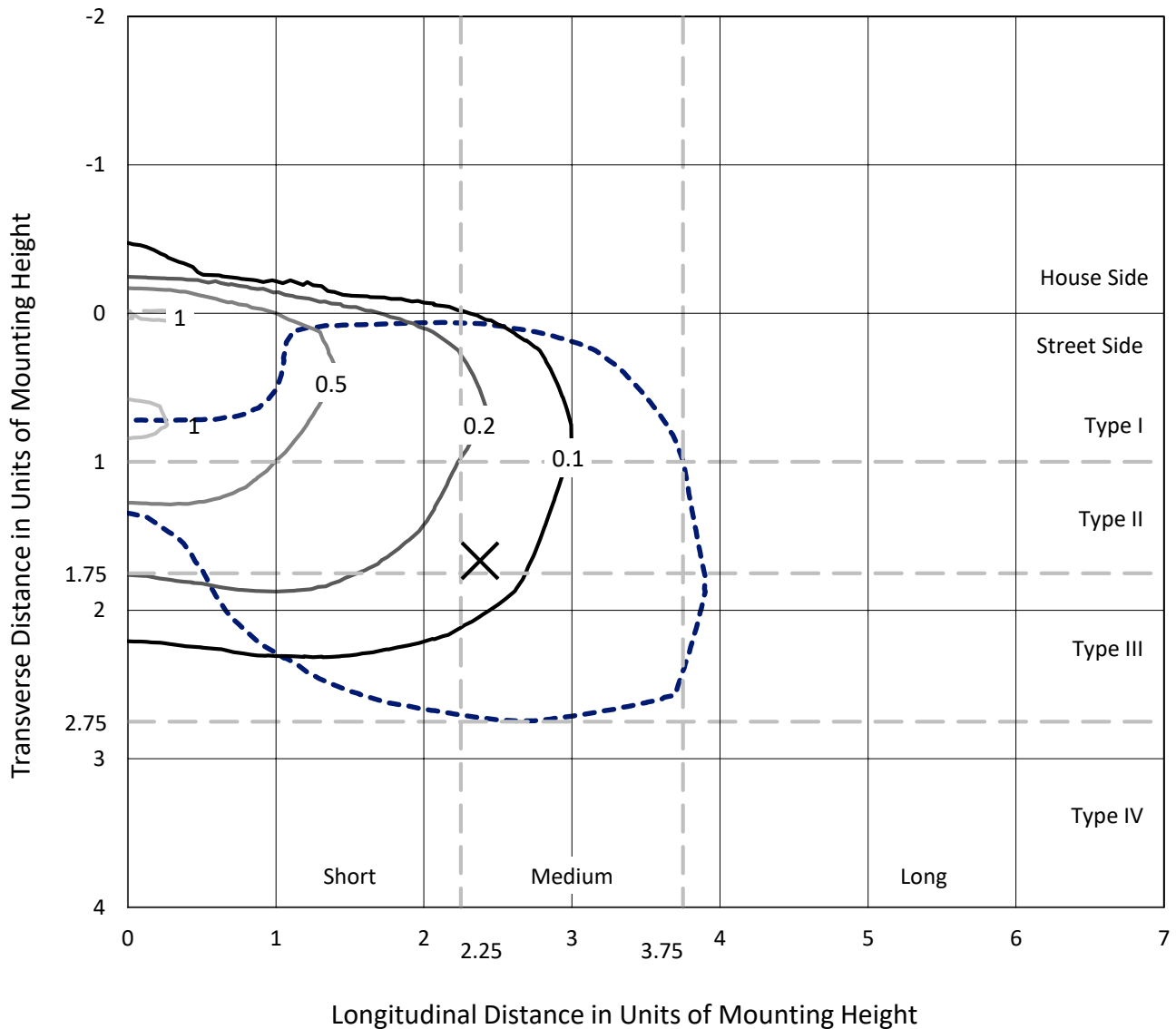
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

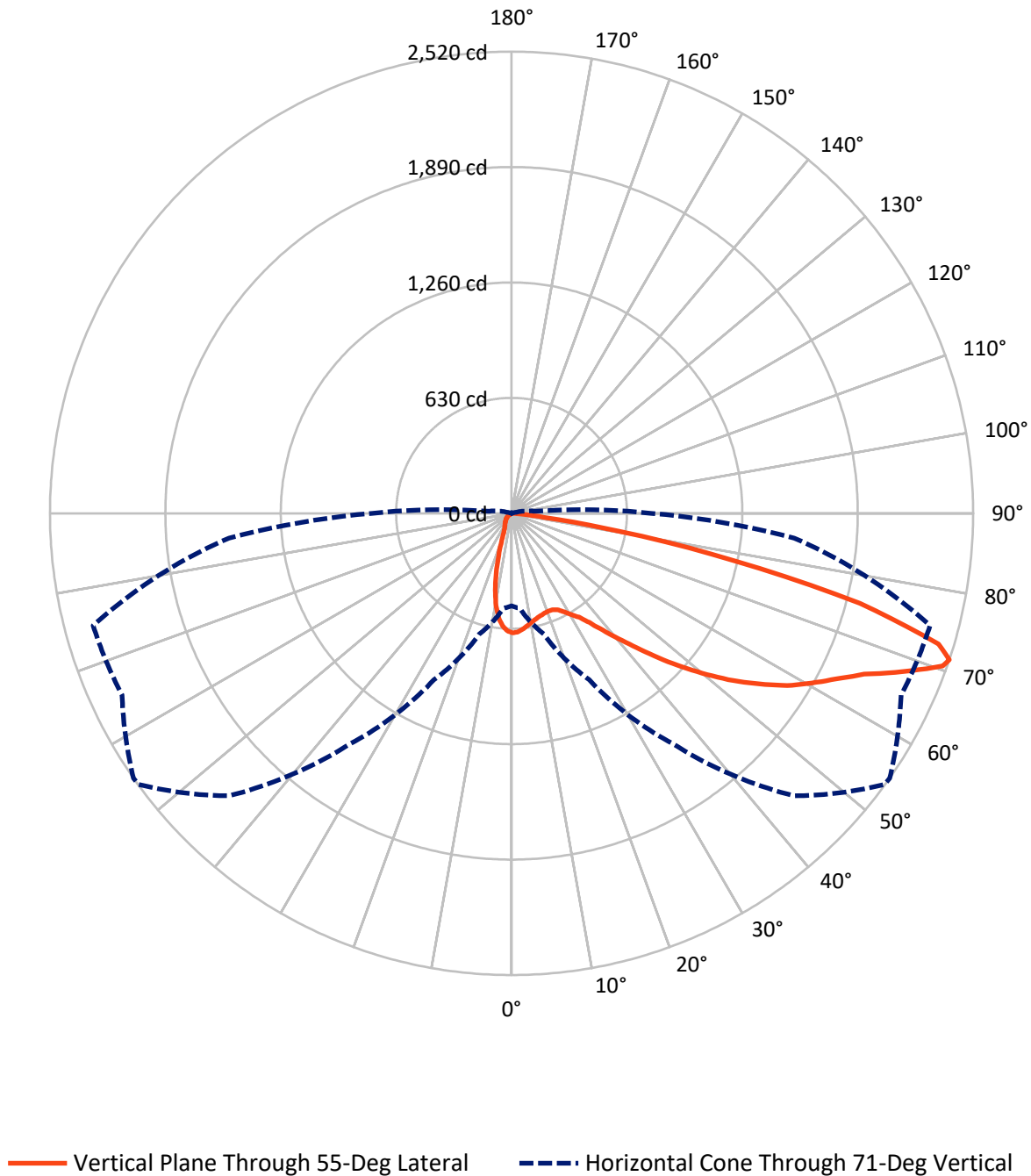
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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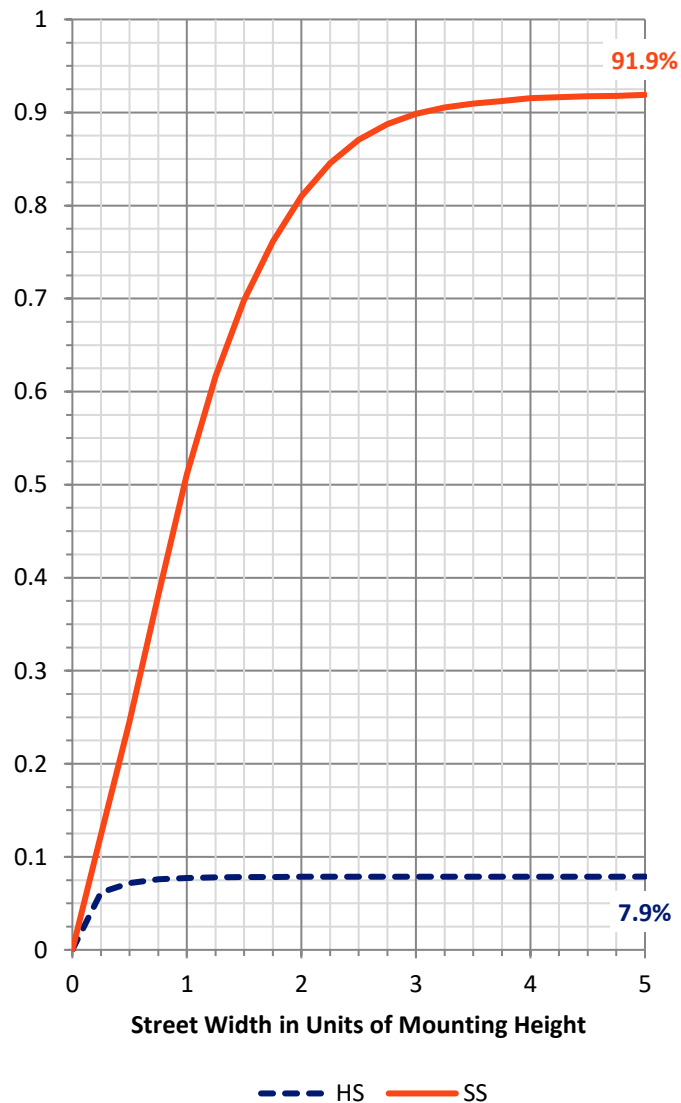
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	267.8	0.0	267.8
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	3114.2	0.0	3114.2
	% Fixture	92.1	0.0	92.1
Total	Lumens	3382.0	0.0	3382.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	1.6
10°-20°	125.5	3.7
20°-30°	201.8	6.0
30°-40°	342.8	10.1
40°-50°	532.1	15.7
50°-60°	715.4	21.2
60°-70°	875.1	25.9
70°-80°	511.7	15.1
80°-90°	22.1	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°	3382.0	100.0
0°-180°	3382.0	100.0

Coefficient of Utilization



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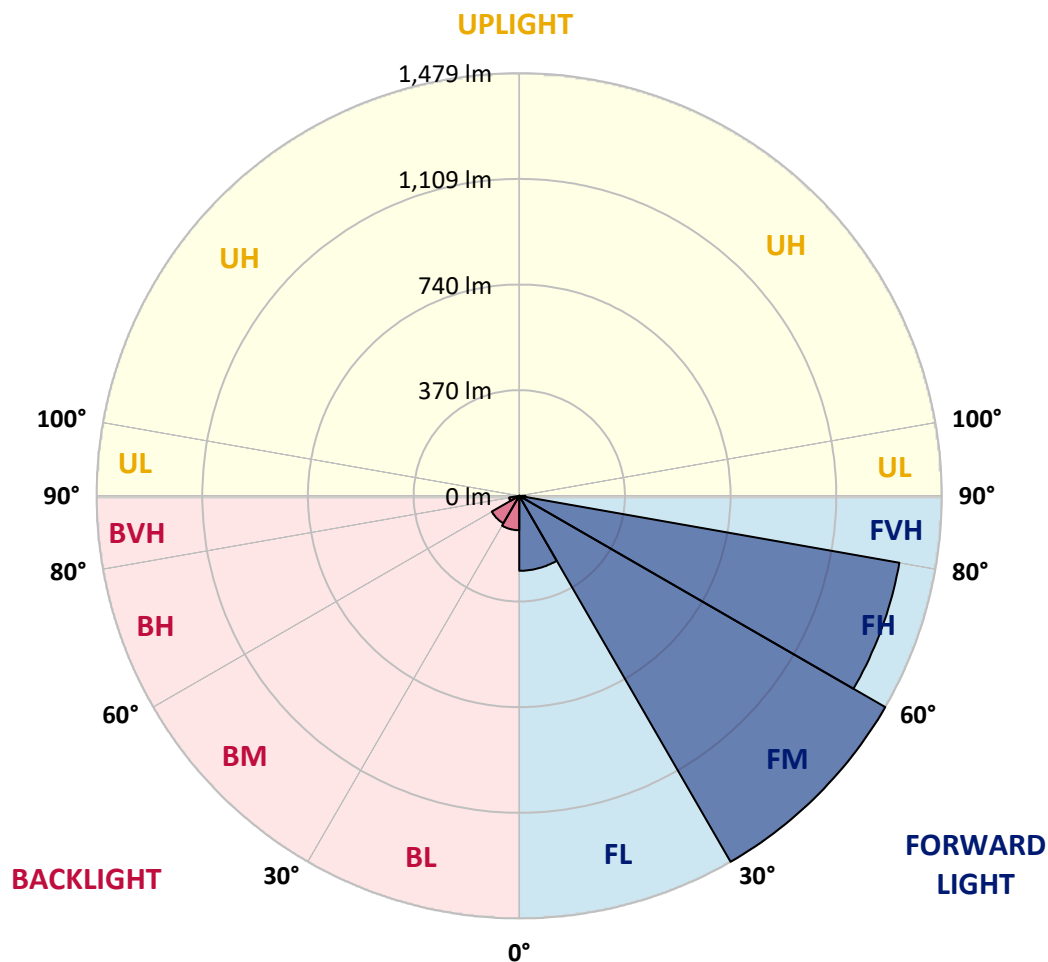
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	262.4	7.8			
FM	(30°-60°)	1479.2	43.7			
FH	(60°-80°)	1350.9	39.9			G1/1800
FVH	(80°-90°)	21.8	0.6			G1/100
BL	(0°-30°)	120.5	3.6	B1/500		
BM	(30°-60°)	111.0	3.3	B0/220		
BH	(60°-80°)	35.9	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°	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2
2.5°	633.1	633.9	636.6	637.8	640.7	645.5	648.0	648.1	652.1	653.6	654.8
5°	588.3	592.9	597.4	602.3	611.1	622.8	634.3	635.4	648.1	657.5	662.6
7.5°	549.7	553.8	559.3	567.0	579.5	597.9	617.2	619.4	643.6	665.0	676.2
10°	510.1	513.4	521.3	532.7	549.9	574.5	600.4	604.2	639.5	675.0	694.8
12.5°	467.7	469.7	479.3	495.7	520.9	552.2	586.3	591.3	636.9	686.6	716.6
15°	435.5	436.4	445.6	462.6	491.4	532.1	575.4	581.5	637.5	700.4	740.5
17.5°	427.3	427.8	432.6	444.3	469.8	514.2	566.7	574.2	639.3	713.9	764.5
20°	460.6	457.4	452.4	450.6	461.5	503.4	561.6	569.9	641.8	725.9	786.0
22.5°	551.9	542.4	521.6	493.8	477.0	504.2	562.9	571.3	649.5	740.6	810.9
25°	687.3	674.3	638.9	584.2	531.7	526.0	574.3	582.8	664.5	758.2	834.8
27.5°	841.4	828.5	785.3	707.2	617.6	569.3	600.4	608.3	686.9	773.9	853.0
30°	989.1	985.4	934.4	845.7	725.7	639.5	634.2	640.8	703.4	783.3	867.4
32.5°	1114.2	1108.4	1067.4	981.2	849.5	723.8	673.8	675.8	715.9	795.4	886.2
35°	1230.2	1223.1	1187.1	1105.5	976.4	826.7	734.8	732.0	743.0	819.9	913.6
37.5°	1331.5	1338.0	1298.1	1220.5	1090.3	933.8	817.1	808.5	785.6	859.7	953.2
40°	1416.2	1416.2	1395.4	1330.7	1213.3	1044.5	910.2	898.8	849.5	921.0	1003.5
42.5°	1446.8	1453.3	1461.0	1424.4	1323.4	1159.6	1014.0	1002.1	939.5	1008.0	1067.0
45°	1448.6	1458.9	1498.5	1498.4	1422.9	1273.9	1130.9	1125.3	1055.0	1119.8	1145.6
47.5°	1422.9	1435.8	1501.1	1538.2	1501.7	1380.4	1258.8	1251.8	1190.6	1256.8	1227.9
50°	1383.3	1397.6	1473.5	1553.8	1555.3	1473.0	1393.5	1383.0	1339.8	1413.3	1313.0
52.5°	1312.4	1340.0	1448.7	1557.5	1590.6	1553.1	1521.6	1517.1	1506.9	1564.1	1380.7
55°	1160.7	1191.3	1386.6	1558.7	1623.2	1624.0	1641.7	1643.0	1663.5	1705.1	1431.1
57.5°	1089.0	1106.3	1278.2	1564.4	1671.7	1704.5	1764.1	1773.6	1805.3	1838.9	1488.7
60°	1043.9	1064.4	1224.7	1556.5	1747.7	1810.0	1877.6	1880.8	1914.8	1976.9	1566.6
62.5°	1007.9	1028.1	1191.0	1526.2	1833.2	1937.0	1988.4	1988.7	2014.2	2141.4	1655.1
65°	919.0	936.1	1122.8	1492.0	1889.7	2062.5	2117.2	2115.2	2136.0	2314.8	1757.9
67.5°	790.6	803.6	983.6	1362.5	1868.5	2176.7	2311.6	2305.1	2279.8	2464.7	1798.3
70°	611.2	615.9	775.2	1135.4	1669.2	2220.6	2499.4	2496.1	2368.1	2437.8	1650.2
71°	505.2	520.7	683.2	1002.1	1535.7	2180.1	2517.7	2519.6	2345.9	2364.6	1548.3
72.5°	293.4	306.6	495.2	769.6	1303.9	2010.9	2423.2	2437.5	2242.3	2150.8	1322.5
75°	62.9	67.3	183.6	372.5	717.2	1409.4	1912.7	1963.5	1827.6	1463.2	797.1
77.5°	43.7	47.2	78.7	169.0	237.1	696.4	1188.1	1245.5	1091.9	549.9	255.1
80°	34.6	38.6	61.4	83.5	64.1	224.6	556.6	591.6	364.2	122.7	43.0
82.5°	19.3	22.9	47.8	45.1	24.6	42.7	155.8	176.2	72.9	24.8	10.2
85°	5.6	6.8	30.8	32.8	10.5	8.2	26.6	33.0	13.8	6.5	4.6
87.5°	0.0	0.0	14.9	12.6	3.0	1.2	2.4	2.7	2.7	2.7	3.0
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°	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2
2.5°	654.8	655.9	652.1	647.1	641.8	635.2	628.4	623.1	622.9	620.3	617.8
5°	662.9	662.3	651.8	635.8	617.0	597.4	578.7	557.6	550.6	542.0	539.1
7.5°	677.7	673.5	651.3	616.4	575.1	534.1	491.7	449.0	430.8	414.4	411.5
10°	696.4	688.4	648.4	587.2	511.5	435.8	371.9	313.9	288.4	268.8	267.9
12.5°	715.9	703.6	640.4	543.2	428.1	321.8	248.1	191.0	169.8	156.1	157.3
15°	736.2	717.8	623.1	483.8	333.2	218.4	152.5	118.9	110.4	106.9	107.8
17.5°	757.0	727.7	598.9	412.3	239.5	140.9	105.5	96.1	96.1	96.9	97.2
20°	775.1	733.0	563.4	332.1	162.3	102.7	92.3	91.0	91.7	92.9	93.1
22.5°	793.0	733.3	517.1	250.9	113.6	89.9	87.9	87.3	87.8	89.1	89.3
25°	807.6	729.7	459.1	178.4	90.7	84.7	83.8	83.5	83.8	85.5	85.5
27.5°	813.5	716.5	388.3	125.4	81.2	79.0	78.7	79.0	79.4	80.6	80.8
30°	814.1	693.4	311.2	90.8	73.7	71.2	71.8	72.9	72.4	72.1	72.4
32.5°	815.6	666.7	236.0	74.7	67.3	63.5	62.7	62.7	60.9	59.8	59.2
35°	820.6	635.2	171.1	67.1	60.7	56.3	53.5	50.1	46.6	44.8	44.3
37.5°	828.5	602.3	122.5	62.1	55.0	50.0	44.5	38.6	33.6	32.2	32.2
40°	843.0	568.3	90.7	58.2	50.4	44.2	36.0	28.2	23.7	22.9	22.9
42.5°	865.7	532.4	72.3	54.7	46.5	38.3	27.5	20.5	17.2	16.7	16.6
45°	889.4	492.9	63.2	51.3	42.2	31.4	20.3	15.2	13.2	12.8	12.8
47.5°	913.1	450.9	58.8	48.1	38.1	24.4	15.2	12.0	11.1	11.1	11.2
50°	933.2	407.0	55.6	44.6	32.8	18.5	12.0	10.2	9.9	10.5	10.6
52.5°	938.2	363.9	51.6	40.2	26.3	14.1	9.9	9.0	9.0	9.0	9.0
55°	935.1	330.4	46.5	34.8	19.4	11.2	8.5	7.9	7.7	7.7	7.7
57.5°	945.5	310.7	37.2	27.0	14.0	9.1	7.4	7.0	6.7	6.5	6.5
60°	966.3	297.8	26.6	19.4	10.5	7.6	6.4	5.9	5.5	5.2	5.2
62.5°	993.9	286.6	19.7	14.4	8.0	6.1	5.3	4.9	4.3	3.9	3.9
65°	1015.2	266.5	15.0	10.8	6.1	4.9	4.1	3.9	3.0	2.7	2.6
67.5°	982.7	222.5	12.1	7.9	4.6	3.8	3.2	3.0	1.8	1.5	1.5
70°	842.8	154.9	9.7	5.8	3.3	3.0	2.6	2.0	1.4	1.2	1.2
71°	764.3	129.4	8.8	4.9	2.9	2.9	2.4	1.7	1.2	1.1	1.1
72.5°	634.9	91.9	7.4	3.8	2.6	3.0	2.6	1.5	1.2	1.1	0.9
75°	368.6	38.4	5.2	2.6	2.0	3.6	3.3	1.4	0.9	0.8	0.8
77.5°	110.9	14.1	2.9	1.7	1.5	3.2	3.8	1.2	0.5	0.2	0.2
80°	20.2	6.1	1.8	1.1	1.1	2.0	2.9	0.6	0.0	0.0	0.0
82.5°	7.1	3.0	1.1	0.6	0.5	0.9	1.4	0.0	0.0	0.0	0.0
85°	4.1	2.1	0.6	0.3	0.0	0.2	0.3	0.0	0.0	0.0	0.0
87.5°	2.7	0.6	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)