

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: P322466

Luminaire Tested: **GAN-SA2A-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322466
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-SA2A-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5663 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

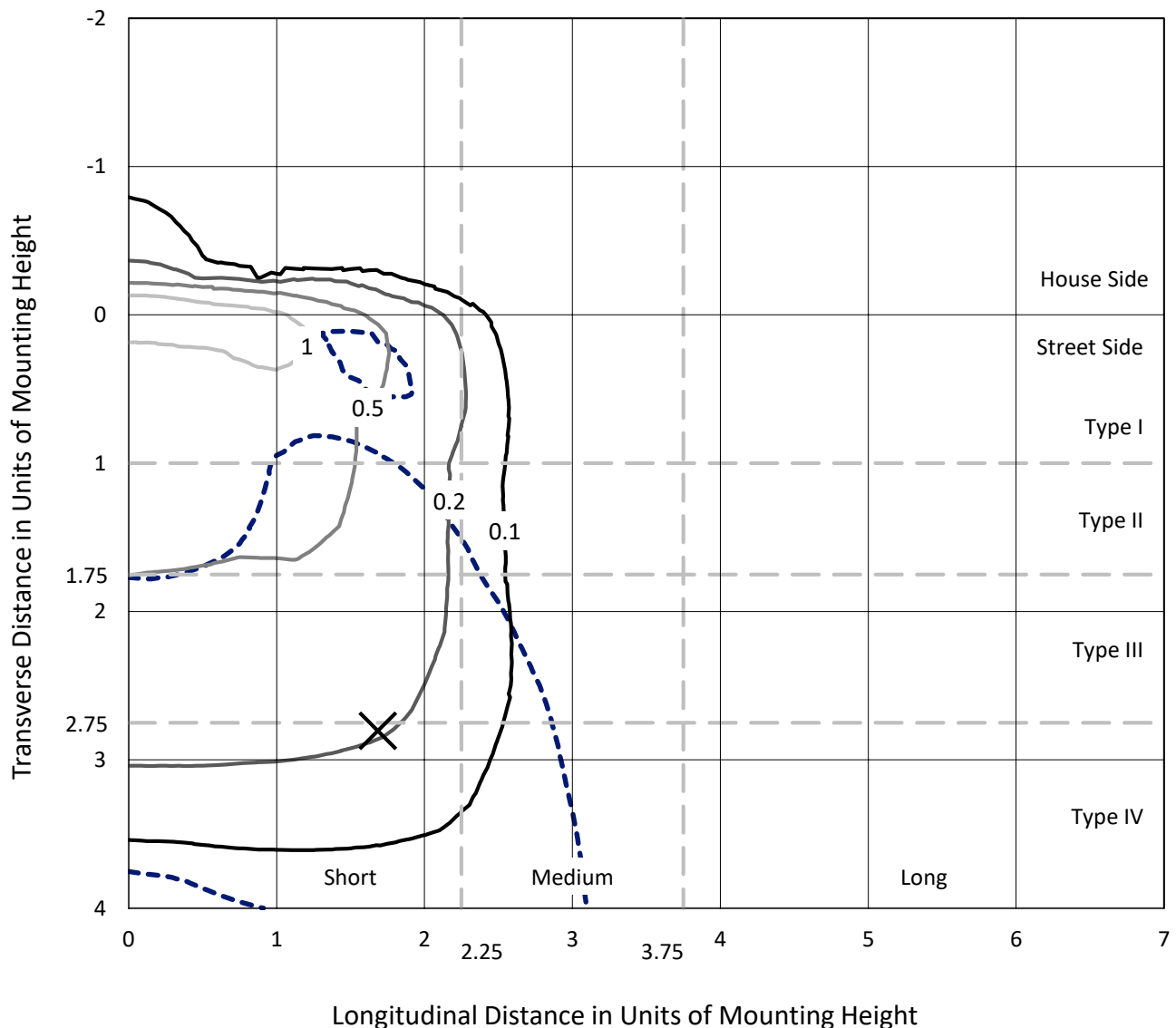
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

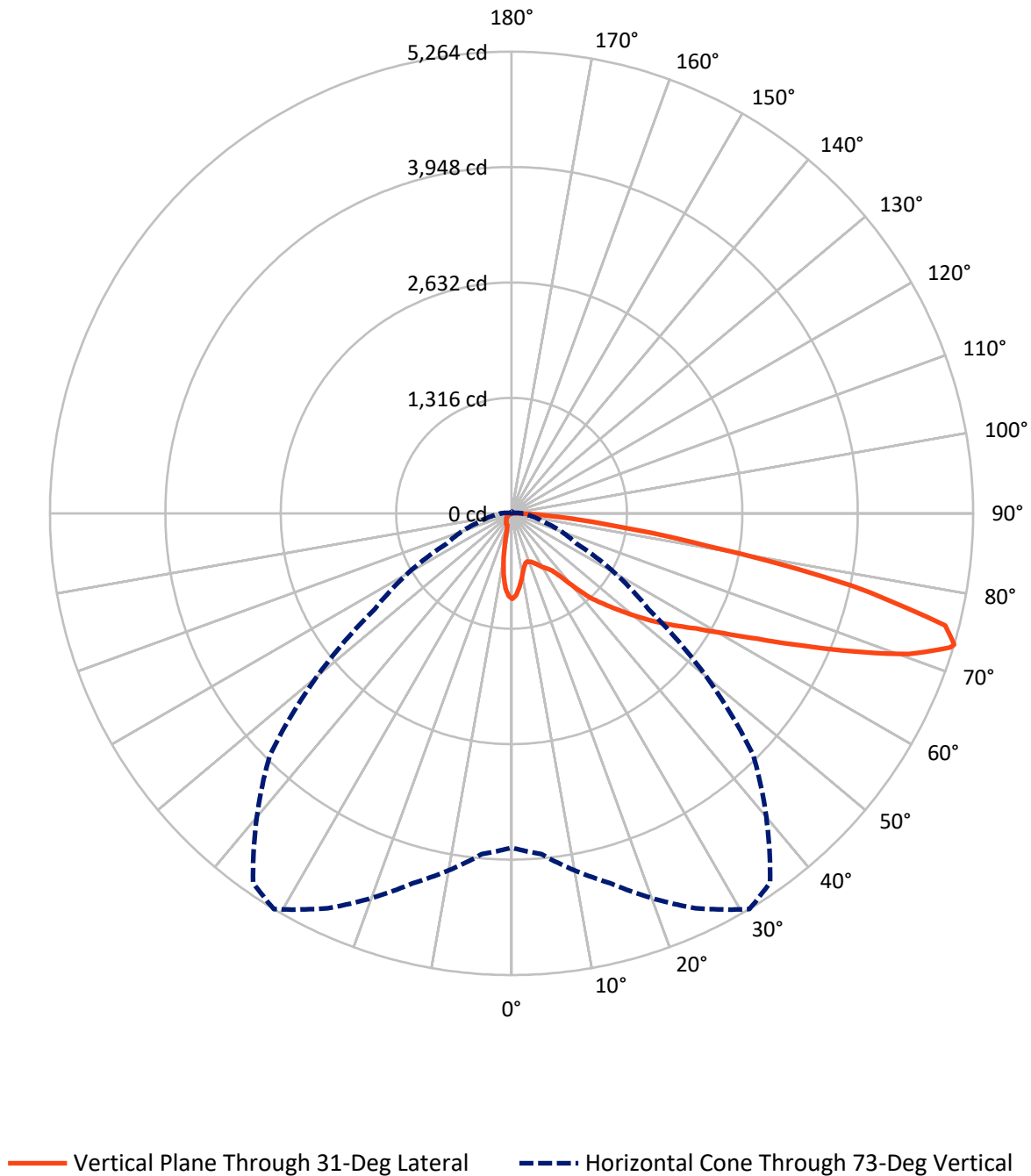
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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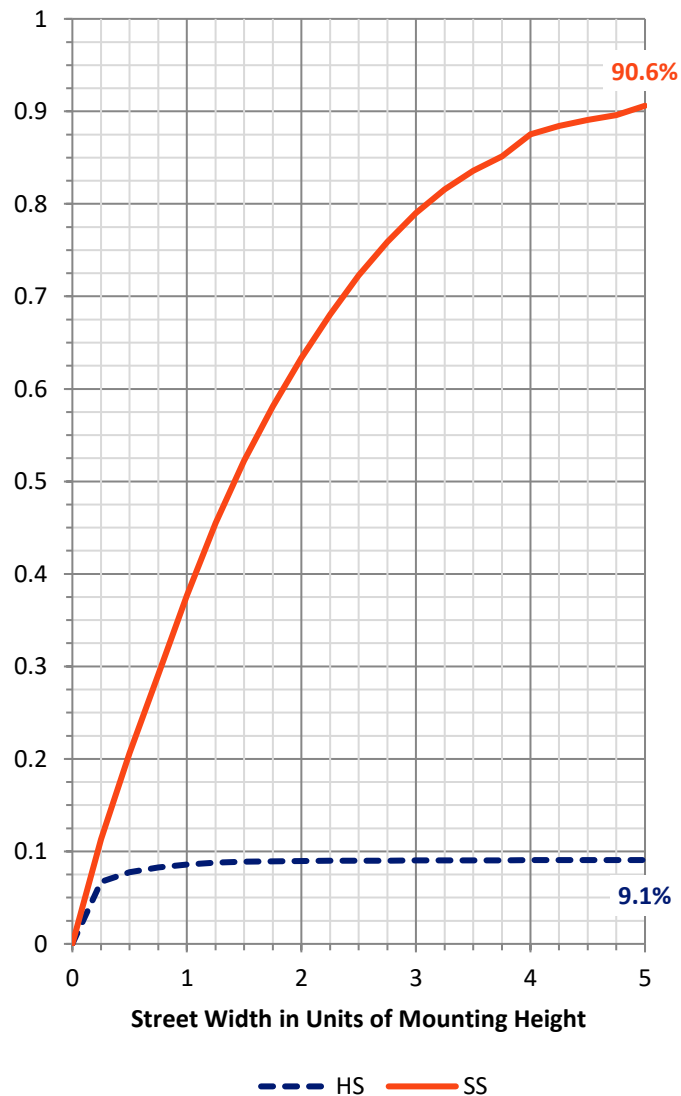
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	516.2	0.0	516.2
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	5146.8	0.0	5146.8
	% Fixture	90.9	0.0	90.9
Total	Lumens	5663.0	0.0	5663.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	1.4
10°-20°	175.4	3.1
20°-30°	262.8	4.6
30°-40°	418.1	7.4
40°-50°	746.7	13.2
50°-60°	1158.6	20.5
60°-70°	1540.2	27.2
70°-80°	1158.6	20.5
80°-90°	121.7	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°	5663.0	100.0
0°-180°	5663.0	100.0

Coefficient of Utilization



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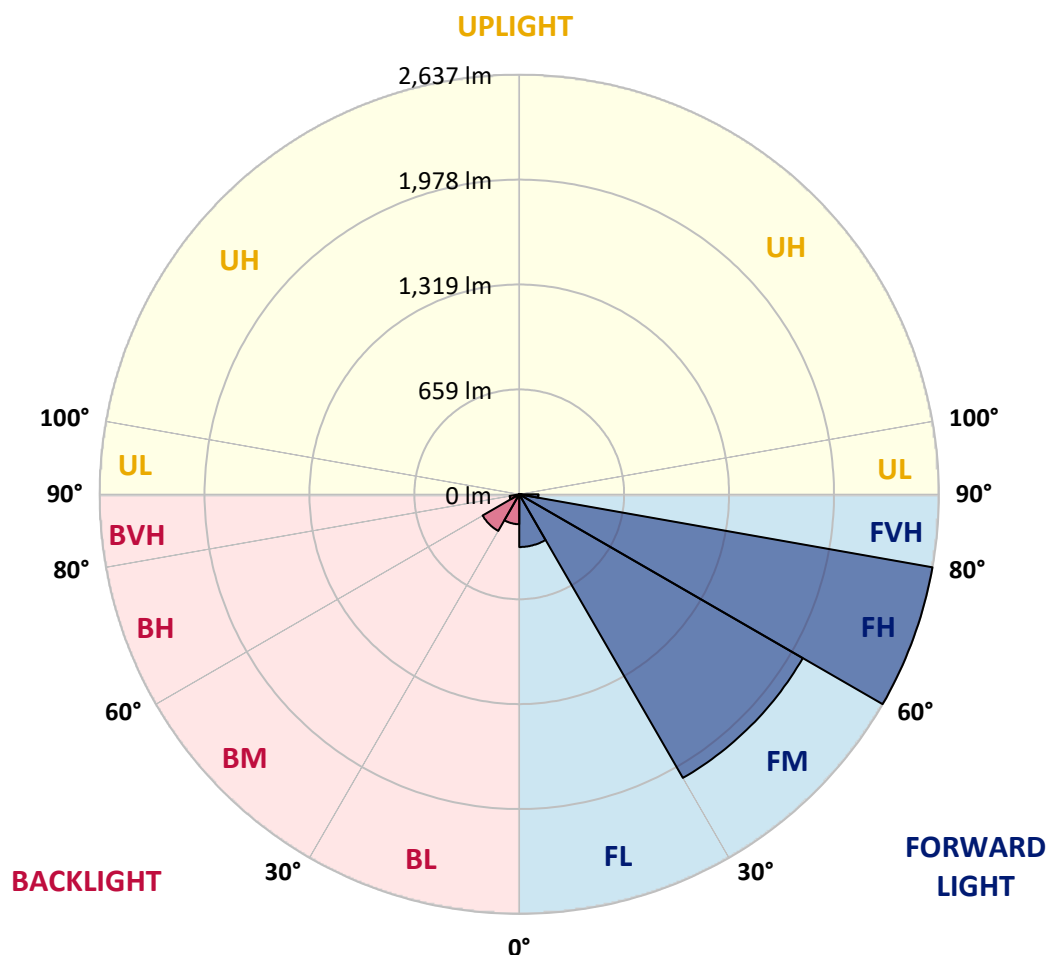
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	331.3	5.9			
FM	(30°-60°)	2057.7	36.3			
FH	(60°-80°)	2637.0	46.6			G2/5000
FVH	(80°-90°)	120.7	2.1			G2/225
BL	(0°-30°)	187.7	3.3	B1/500		
BM	(30°-60°)	265.7	4.7	B1/1000		
BH	(60°-80°)	61.8	1.1	B0/110		G0/110
BVH	(80°-90°)	1.0	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°	974.3	974.3	974.3	974.3	974.3	974.3	974.3	974.3	974.3	974.3	974.3
2.5°	923.3	927.2	931.4	932.2	939.1	939.4	949.4	956.9	964.4	971.6	974.1
5°	828.6	834.9	842.4	849.9	864.6	870.4	894.8	919.7	943.6	966.3	977.4
7.5°	727.4	734.6	745.2	763.7	780.1	791.4	830.0	874.3	918.6	960.5	984.6
10°	635.1	641.8	652.9	672.6	697.8	713.3	765.1	826.6	891.8	955.2	995.4
12.5°	576.4	580.0	586.1	607.2	629.9	647.3	708.3	784.5	869.6	954.9	1012.8
15°	565.6	566.7	561.7	571.1	588.9	605.8	667.6	750.4	852.7	959.4	1035.6
17.5°	582.8	582.2	565.6	564.5	578.6	592.5	647.6	726.9	840.8	969.6	1064.9
20°	608.8	606.9	578.1	572.8	587.8	600.8	646.2	718.0	836.3	986.8	1100.7
22.5°	643.5	640.1	595.0	589.4	605.5	619.1	663.4	726.6	840.2	1009.8	1142.3
25°	686.4	681.4	624.1	618.0	634.3	647.9	694.2	751.3	851.8	1037.8	1194.9
27.5°	734.9	727.7	670.6	654.8	673.4	687.5	735.2	788.9	870.1	1067.4	1259.5
30°	780.6	771.2	719.7	693.6	716.3	732.1	779.5	833.8	899.5	1113.2	1347.9
32.5°	826.6	816.1	763.4	732.4	752.9	770.1	825.2	895.6	954.7	1183.0	1465.4
35°	932.5	921.4	856.8	805.6	805.3	815.0	889.3	980.2	1027.5	1280.3	1605.6
37.5°	1110.7	1104.3	1042.8	945.5	919.5	908.7	976.5	1081.0	1132.3	1414.1	1763.8
40°	1305.8	1300.2	1231.2	1143.1	1103.5	1076.9	1101.8	1221.5	1280.3	1577.6	1925.4
42.5°	1526.1	1499.7	1376.7	1350.4	1314.9	1294.7	1272.2	1394.7	1462.1	1755.5	2085.6
45°	1726.1	1681.8	1522.2	1482.3	1474.2	1479.2	1491.7	1627.5	1666.6	1967.0	2245.2
47.5°	1845.3	1810.4	1687.9	1649.7	1647.4	1680.4	1774.6	1890.5	1870.2	2151.2	2385.7
50°	1958.6	1927.0	1825.3	1834.8	1845.0	1889.9	2095.8	2160.9	2056.2	2318.3	2514.5
52.5°	2050.4	2002.1	1948.9	2001.9	2052.3	2124.6	2427.2	2403.7	2188.1	2451.3	2624.8
55°	2103.3	2081.4	2107.2	2160.4	2255.1	2372.6	2740.1	2605.7	2284.5	2572.7	2698.3
57.5°	2297.3	2254.3	2305.6	2351.6	2475.2	2639.5	3008.1	2756.2	2354.1	2647.8	2715.2
60°	2532.0	2497.3	2527.6	2604.0	2770.9	2964.0	3258.6	2878.9	2390.4	2696.0	2671.4
62.5°	2905.5	2859.8	2841.0	2926.6	3147.7	3358.6	3448.7	2964.0	2382.3	2674.7	2521.2
65°	3406.0	3358.6	3274.4	3352.0	3633.2	3782.0	3661.2	2982.0	2326.9	2502.1	2141.5
67.5°	3918.7	3884.3	3812.2	3943.0	4196.9	4244.8	3886.0	2938.2	2148.5	2028.7	1513.0
70°	4257.3	4242.6	4289.4	4578.7	4805.1	4791.3	4092.1	2703.0	1674.6	1247.6	748.5
72.5°	4013.2	4083.5	4429.4	4954.0	5230.5	5117.5	3986.3	2075.6	957.1	480.0	216.4
73°	3810.9	3900.9	4366.5	4968.1	5264.0	5140.2	3897.3	1905.2	815.8	378.8	164.1
75°	2651.1	2761.7	3614.9	4627.0	5107.2	4897.4	3248.6	1166.1	378.0	167.9	66.2
77.5°	1287.2	1368.9	1990.5	3343.1	3971.9	3826.4	2022.4	434.5	170.7	105.0	30.5
80°	480.5	534.3	864.0	1701.5	2295.3	2355.5	889.5	164.3	113.6	84.5	15.5
82.5°	125.8	140.2	318.7	758.7	1176.3	1231.2	280.4	82.9	83.1	69.6	9.4
85°	40.2	46.0	99.5	340.6	554.2	486.6	73.2	40.2	60.4	51.8	5.3
87.5°	5.0	6.4	31.6	80.1	122.2	67.9	11.4	11.9	25.8	28.8	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°	974.3	974.3	974.3	974.3	974.3	974.3	974.3	974.3	974.3	974.3	974.3
2.5°	976.5	975.2	975.4	968.2	963.5	954.1	944.4	940.0	935.3	933.3	935.3
5°	981.5	979.0	971.8	949.7	926.1	895.6	867.1	845.5	818.3	810.8	818.6
7.5°	989.3	984.3	963.2	918.1	865.7	807.5	742.1	694.4	655.4	630.2	639.3
10°	1000.7	991.2	948.8	872.1	778.4	675.3	582.5	510.2	458.9	437.8	437.0
12.5°	1019.8	1002.0	931.1	812.2	671.7	534.3	412.6	334.2	292.6	265.8	265.2
15°	1040.8	1014.8	908.7	740.4	547.6	382.7	265.8	206.2	179.3	170.7	169.6
17.5°	1066.6	1029.5	879.6	652.0	417.6	253.6	173.5	156.3	155.2	154.4	154.4
20°	1099.0	1046.9	842.1	550.9	296.2	169.3	147.4	148.5	149.1	148.0	148.3
22.5°	1136.7	1064.7	797.5	442.3	200.4	141.6	141.1	142.4	143.0	142.4	142.7
25°	1180.5	1085.2	743.2	328.4	144.7	134.4	135.8	137.7	139.1	139.1	139.1
27.5°	1234.8	1110.1	677.8	229.2	125.0	126.9	130.8	134.4	136.3	136.9	136.9
30°	1305.5	1141.2	599.4	157.1	113.6	116.9	124.1	131.1	134.7	135.2	135.5
32.5°	1394.7	1176.1	508.5	116.1	103.9	106.4	114.2	125.8	132.7	133.8	133.8
35°	1497.0	1216.5	410.7	101.1	97.0	97.8	103.9	117.2	129.4	132.5	132.7
37.5°	1608.9	1256.4	312.3	94.5	91.2	91.2	95.6	107.0	121.4	130.8	131.9
40°	1713.4	1280.5	218.9	89.2	85.9	85.9	89.8	98.1	111.7	125.8	128.9
42.5°	1809.8	1288.9	152.4	84.2	80.9	81.7	85.1	91.7	102.0	116.1	118.9
45°	1909.0	1287.5	111.1	78.4	75.9	78.4	80.9	85.9	93.4	101.4	102.0
47.5°	1983.9	1275.8	88.1	72.9	71.2	74.5	76.8	80.1	84.2	83.7	83.7
50°	2054.0	1247.6	70.9	65.4	66.5	70.4	71.5	72.6	72.9	67.6	67.1
52.5°	2107.2	1203.5	56.8	57.4	61.8	65.7	64.6	62.9	60.1	53.8	52.7
55°	2124.9	1118.7	44.6	47.4	54.9	59.9	55.7	52.1	46.8	41.6	40.5
57.5°	2092.8	1009.2	36.3	36.9	46.3	50.4	45.7	41.6	35.7	31.3	30.5
60°	2024.6	887.6	29.9	27.7	35.7	39.4	36.3	32.1	26.9	23.6	23.3
62.5°	1889.4	757.9	24.7	21.6	27.2	30.2	28.3	25.2	20.8	18.6	18.3
65°	1605.0	606.3	20.0	17.5	21.1	23.6	21.9	19.7	16.3	14.7	14.4
67.5°	1120.4	409.9	16.3	14.4	16.6	18.6	17.2	16.1	13.0	12.7	13.0
70°	540.4	197.6	13.6	11.6	13.0	14.4	13.9	13.0	12.5	14.4	16.6
72.5°	154.9	66.2	10.8	9.7	10.5	11.4	11.9	11.6	13.6	17.5	20.2
73°	119.2	53.5	10.3	9.1	10.0	11.1	11.6	11.4	13.9	17.7	20.2
75°	51.0	25.8	7.8	7.5	8.3	9.7	10.3	10.3	13.9	18.0	19.4
77.5°	23.0	13.9	5.0	5.8	7.2	7.8	8.6	8.6	11.1	13.9	13.9
80°	13.0	7.5	3.9	4.4	5.3	5.3	5.3	4.7	5.0	5.5	6.1
82.5°	8.3	5.0	3.0	3.6	3.3	2.8	2.2	2.2	1.9	2.2	2.8
85°	4.7	2.8	2.8	2.2	1.4	1.1	1.4	1.1	0.3	0.0	0.3
87.5°	2.8	1.7	0.8	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)