

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: P321395

Luminaire Tested: **GAN-SA1B-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3551 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

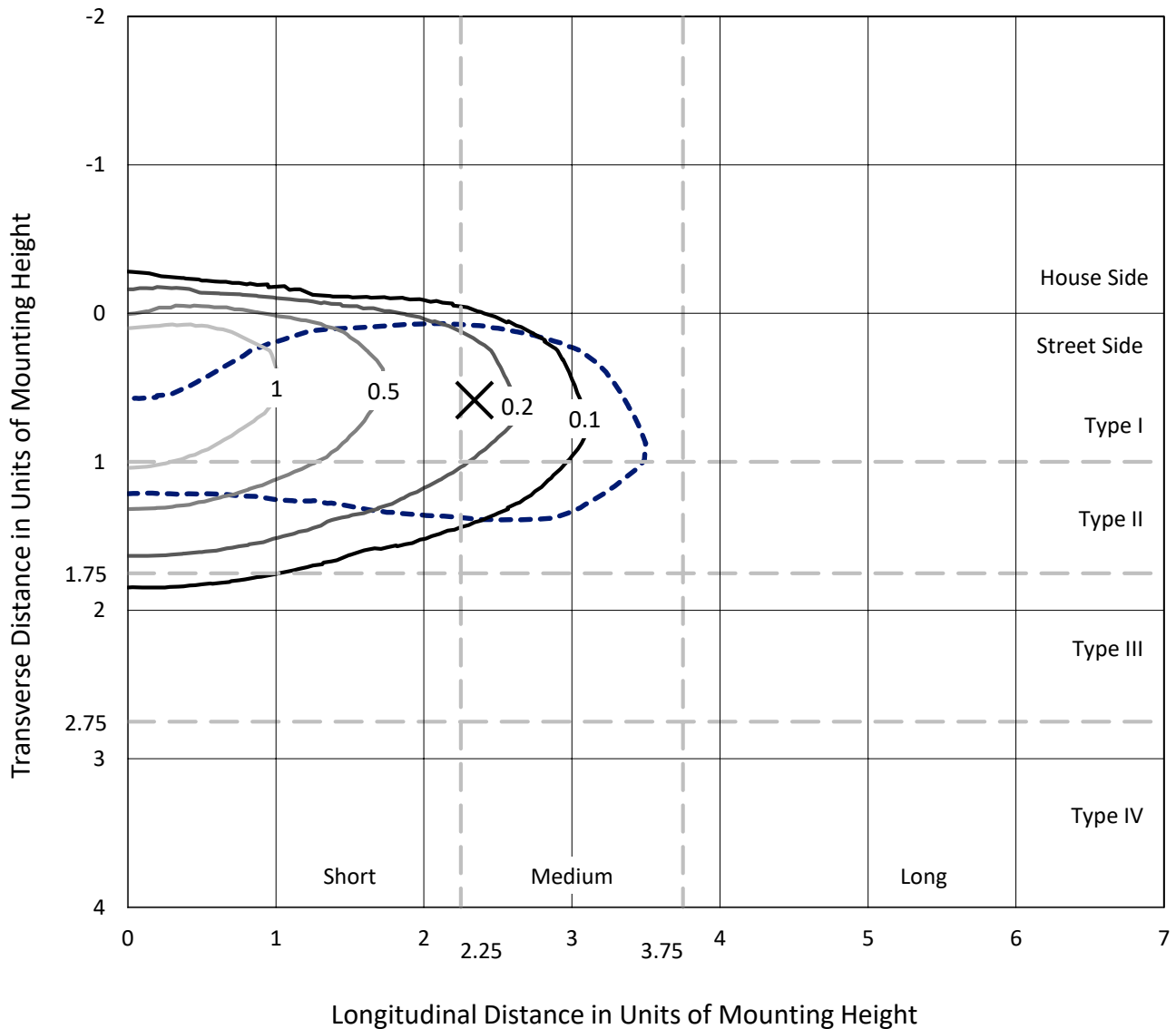
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

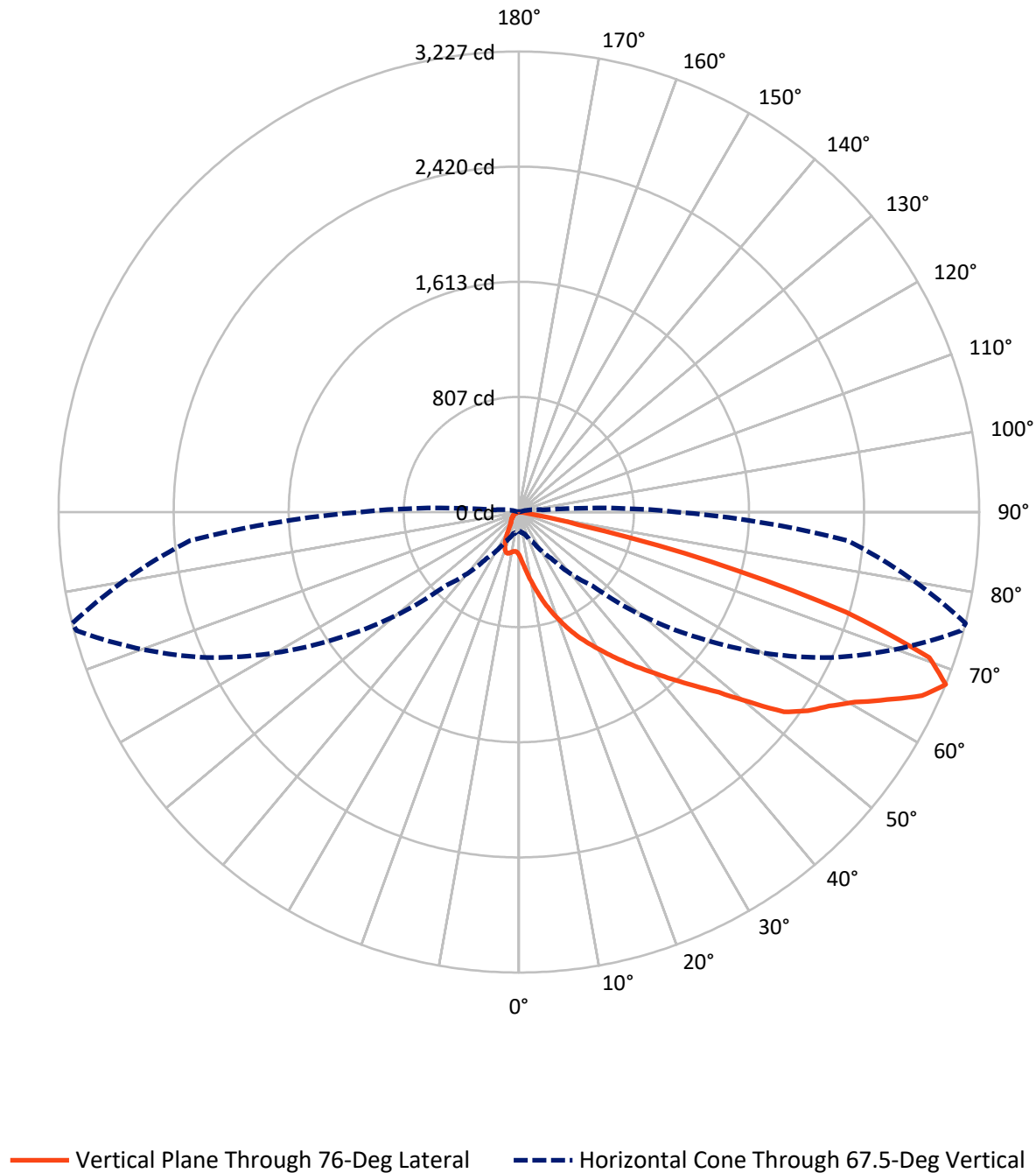
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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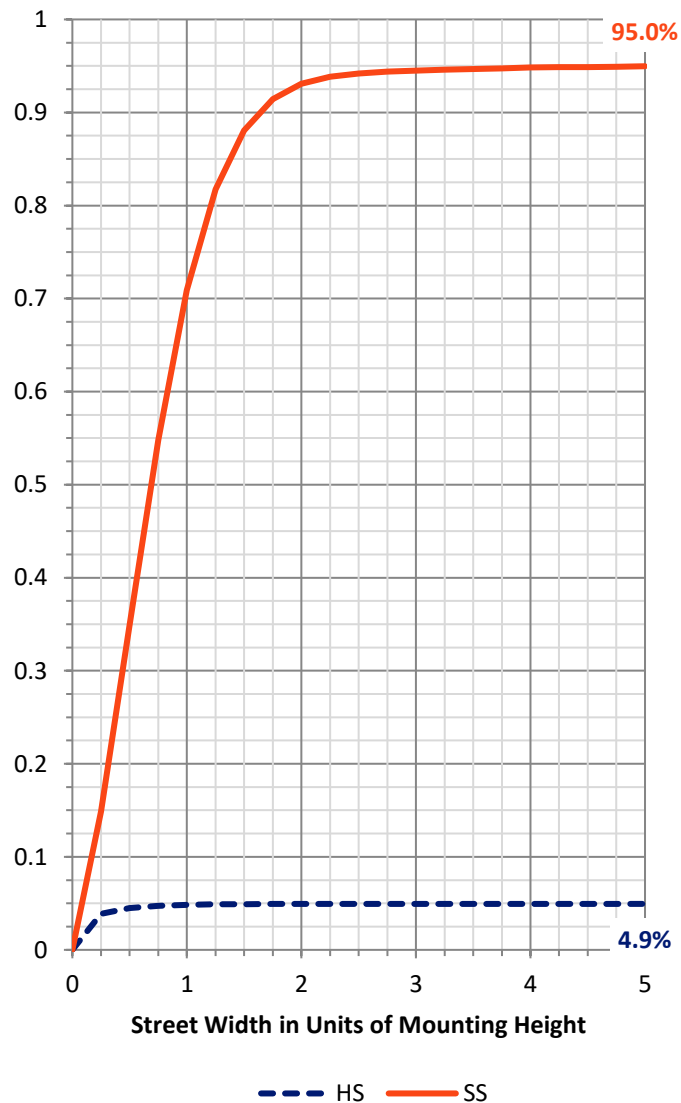
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	176.3	0.0	176.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3374.7	0.0	3374.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	3551.0	0.0	3551.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	1.1
10°-20°	148.5	4.2
20°-30°	302.1	8.5
30°-40°	524.4	14.8
40°-50°	740.9	20.9
50°-60°	840.2	23.7
60°-70°	696.9	19.6
70°-80°	252.4	7.1
80°-90°	8.2	0.2
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°	3551.0	100.0
0°-180°	3551.0	100.0

Coefficient of Utilization



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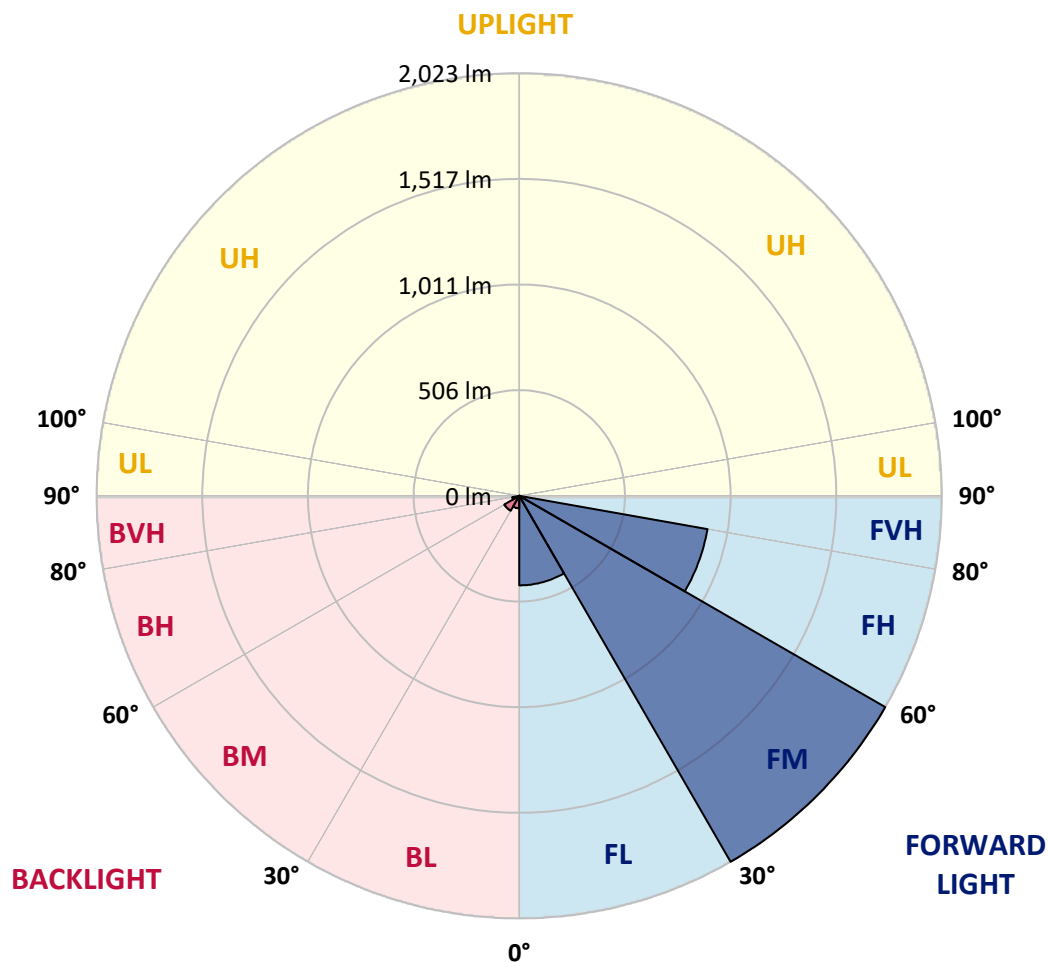
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	428.6	12.1			
FM	(30°-60°)	2022.9	57.0			
FH	(60°-80°)	915.2	25.8			G1/1800
FVH	(80°-90°)	7.9	0.2			G0/10
BL	(0°-30°)	59.5	1.7	B0/110		
BM	(30°-60°)	82.5	2.3	B0/220		
BH	(60°-80°)	34.1	1.0	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2
2.5°	449.7	439.5	441.9	435.3	423.5	399.3	378.6	359.0	336.1	335.3	316.5
5°	606.3	597.8	596.7	583.5	562.0	520.8	480.6	434.9	383.8	380.1	340.1
7.5°	748.6	741.7	739.2	723.5	683.5	643.4	591.1	523.9	444.1	437.2	372.0
10°	857.8	854.5	855.1	843.9	809.7	772.4	703.7	618.0	512.4	501.8	410.3
12.5°	940.6	941.3	946.9	940.1	921.0	893.3	820.0	718.4	588.0	573.5	454.0
15°	1001.4	1005.3	1015.6	1024.1	1022.7	998.8	931.5	820.3	668.3	652.2	502.7
17.5°	1040.8	1045.1	1060.1	1079.0	1096.5	1090.9	1039.2	918.6	749.5	731.0	554.8
20°	1075.3	1080.4	1096.5	1121.5	1154.0	1161.0	1127.1	1014.0	830.6	808.0	608.7
22.5°	1150.1	1150.0	1159.8	1174.4	1205.4	1223.4	1202.0	1102.5	910.7	887.2	663.6
25°	1285.5	1280.4	1277.0	1265.4	1272.3	1283.5	1271.5	1185.3	991.3	967.5	719.3
27.5°	1446.4	1449.5	1421.8	1390.8	1366.9	1355.4	1335.8	1262.0	1068.8	1042.6	773.8
30°	1616.1	1617.1	1584.4	1544.9	1492.1	1448.4	1414.5	1335.3	1148.4	1120.0	826.7
32.5°	1769.2	1763.2	1730.8	1677.0	1610.4	1561.2	1490.7	1417.1	1232.8	1205.2	885.5
35°	1890.6	1883.5	1844.1	1795.1	1726.0	1676.5	1591.7	1498.8	1321.4	1294.5	944.4
37.5°	1979.3	1970.9	1930.4	1880.0	1820.4	1791.7	1708.9	1587.7	1418.2	1389.3	1006.5
40°	2010.1	2002.8	1977.4	1940.6	1892.6	1886.1	1833.2	1689.9	1523.6	1492.8	1076.9
42.5°	1991.7	1984.6	1975.6	1963.1	1943.2	1949.4	1950.5	1806.4	1640.6	1610.2	1154.5
45°	1918.9	1912.5	1921.9	1940.1	1964.8	1995.6	2057.6	1931.7	1771.3	1738.9	1244.3
47.5°	1811.7	1807.1	1832.9	1878.3	1950.7	2035.6	2155.4	2063.3	1918.0	1888.0	1356.3
50°	1659.2	1658.5	1710.1	1793.1	1904.3	2054.9	2256.6	2213.0	2121.8	2090.2	1512.1
52.5°	1421.8	1423.4	1525.0	1657.7	1822.9	2041.8	2321.6	2405.3	2358.9	2326.1	1646.9
55°	1195.7	1205.1	1277.1	1468.5	1698.1	1993.3	2344.0	2495.1	2489.8	2458.7	1721.9
57.5°	974.3	991.3	1060.7	1239.5	1515.9	1881.4	2331.7	2534.0	2587.2	2563.4	1820.9
60°	734.4	742.2	822.2	989.3	1282.1	1677.3	2242.6	2555.1	2720.4	2703.9	1964.5
62.5°	467.2	486.7	557.6	718.8	998.3	1393.8	2092.3	2554.8	2887.0	2896.0	2149.8
65°	246.1	268.9	306.5	445.5	686.0	1077.2	1866.2	2530.9	3091.5	3104.1	2294.7
67.5°	132.7	139.3	159.2	231.2	397.9	729.7	1534.0	2412.6	3209.9	3226.5	2314.9
70°	97.1	100.7	108.1	127.9	200.2	423.8	1119.3	2144.5	3057.2	3051.0	2056.8
72.5°	74.5	80.1	85.7	93.7	115.1	226.2	696.9	1679.3	2439.4	2398.3	1537.4
75°	58.8	59.7	67.7	74.8	86.4	128.8	309.5	978.1	1488.9	1391.6	797.3
77.5°	47.0	47.6	52.3	58.5	69.4	84.6	95.8	384.8	475.3	424.1	173.0
80°	27.9	29.4	38.9	45.1	57.6	53.4	35.0	83.6	74.2	67.2	29.1
82.5°	15.6	16.8	21.9	35.6	40.1	25.5	17.4	22.6	17.4	17.0	8.2
85°	0.0	0.8	14.2	22.1	16.3	5.6	7.3	7.5	5.1	4.8	3.3
87.5°	0.0	0.0	4.4	4.2	0.6	0.9	1.7	2.5	2.0	2.0	1.7
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°	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2
2.5°	307.1	298.7	282.9	267.3	254.2	243.5	233.9	230.0	226.9	226.4	223.9
5°	320.8	303.9	273.5	248.6	232.0	220.2	210.1	203.8	199.0	197.1	195.4
7.5°	341.5	315.9	272.3	243.7	223.7	203.8	185.2	164.9	152.3	147.5	144.7
10°	366.7	331.7	277.0	242.3	207.4	165.4	134.4	108.8	98.3	94.9	94.0
12.5°	396.1	351.5	285.0	233.5	172.6	117.5	92.7	84.0	81.7	80.6	80.6
15°	429.9	373.1	290.8	208.3	127.6	88.8	80.3	76.2	73.8	72.4	72.5
17.5°	464.4	394.3	288.0	171.8	94.1	79.0	72.7	68.3	64.9	63.5	63.2
20°	499.3	413.9	272.4	127.9	79.7	71.7	64.6	59.7	56.3	54.9	54.6
22.5°	535.4	430.5	245.1	93.8	71.6	63.6	56.6	51.8	48.5	47.3	46.7
25°	570.6	444.1	206.8	75.9	63.9	56.0	49.3	44.8	41.9	40.6	40.5
27.5°	603.4	452.6	162.4	67.1	57.3	49.2	43.1	39.1	36.6	35.6	35.5
30°	633.0	453.4	120.1	60.5	51.3	43.3	37.7	34.1	31.9	31.0	30.7
32.5°	662.8	446.9	87.4	54.6	45.9	38.1	32.7	29.9	28.3	27.5	27.5
35°	691.0	431.8	68.1	49.5	40.6	33.1	28.8	26.8	25.8	25.1	25.1
37.5°	718.5	410.1	57.9	45.0	35.6	28.9	25.4	24.1	23.3	22.6	22.6
40°	746.5	382.9	52.6	40.8	31.6	25.7	22.6	21.5	20.7	20.1	19.9
42.5°	780.9	351.5	49.2	36.9	28.0	22.7	19.9	18.7	18.0	17.4	17.1
45°	820.8	324.4	46.4	33.0	25.1	20.2	17.3	16.0	15.1	14.3	14.2
47.5°	878.2	304.8	42.6	28.8	22.2	17.6	14.9	13.5	12.1	11.4	11.2
50°	951.4	288.6	37.8	25.1	19.4	14.9	12.4	10.7	9.5	8.7	8.7
52.5°	987.9	267.5	33.5	21.8	16.3	12.6	10.1	8.1	7.5	6.7	6.7
55°	1002.5	251.3	29.1	18.5	13.5	10.4	7.9	6.2	5.8	5.3	5.1
57.5°	1043.6	246.6	25.4	15.7	11.2	8.2	6.1	4.7	4.4	3.7	3.7
60°	1109.7	248.9	21.9	13.4	9.0	6.4	4.5	3.6	3.3	2.6	2.6
62.5°	1181.1	246.0	18.5	11.5	7.0	4.7	3.1	2.6	2.6	1.6	1.4
65°	1194.8	219.1	15.9	9.5	5.4	3.4	2.0	1.7	2.3	0.3	0.0
67.5°	1108.9	169.9	13.7	7.3	4.0	2.6	1.6	0.8	2.0	0.0	0.0
70°	886.7	108.0	11.0	5.3	3.1	2.2	1.2	0.3	1.6	0.0	0.0
72.5°	627.0	62.7	8.7	3.7	2.6	1.7	0.9	0.0	0.9	0.0	0.0
75°	317.1	33.5	5.4	2.8	2.0	1.2	0.6	0.0	0.2	0.0	0.0
77.5°	68.6	15.6	3.4	2.0	1.4	0.8	0.3	0.0	0.0	0.0	0.0
80°	14.9	6.8	2.2	1.2	0.8	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	5.4	3.6	1.1	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.0	1.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.6	0.2	0.2	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)