

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: P324705

Luminaire Tested: **GAN-SA1A-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3339 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

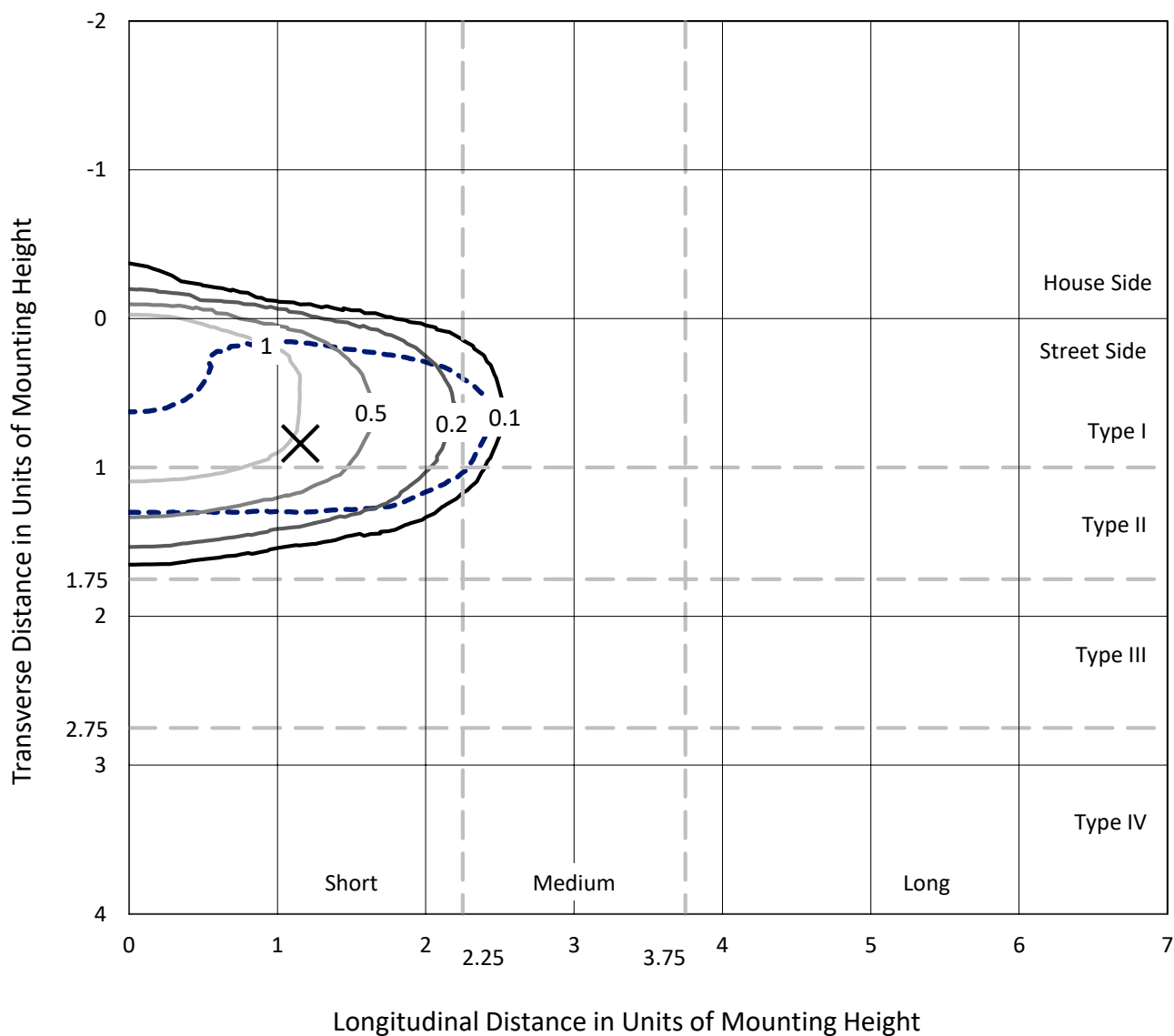
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

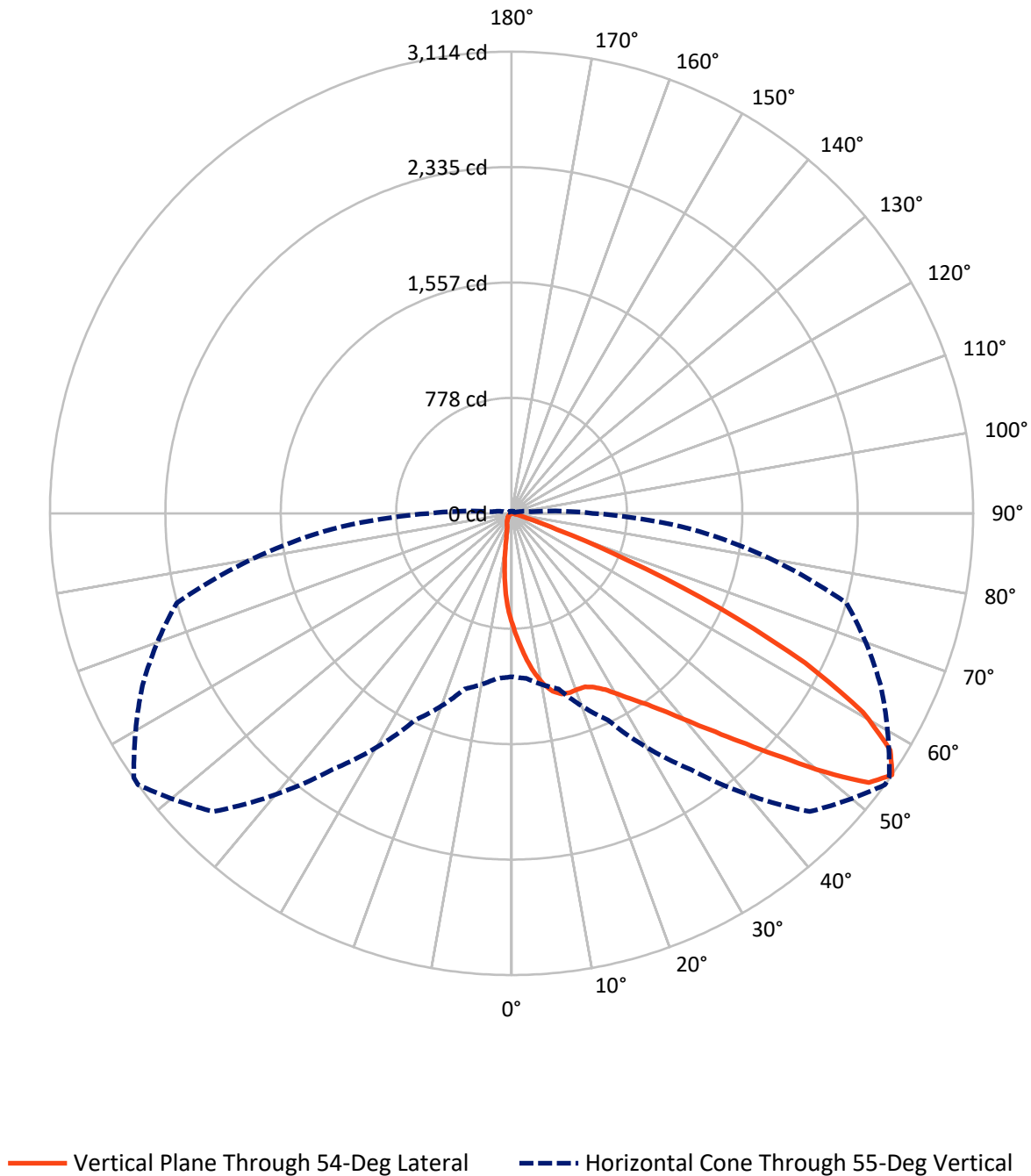
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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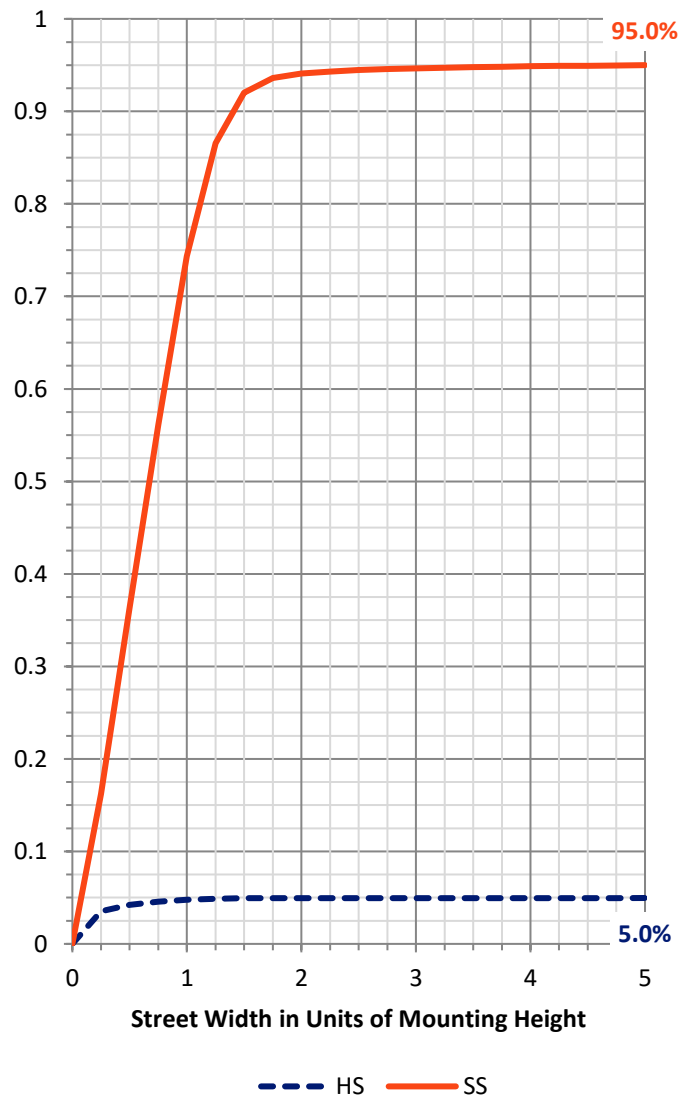
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	166.6	0.0	166.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3172.4	0.0	3172.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	3339.0	0.0	3339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	2.1
10°-20°	188.9	5.7
20°-30°	322.4	9.7
30°-40°	517.5	15.5
40°-50°	826.9	24.8
50°-60°	886.1	26.5
60°-70°	454.9	13.6
70°-80°	68.9	2.1
80°-90°	4.5	0.1
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°	3339.0	100.0
0°-180°	3339.0	100.0

Coefficient of Utilization



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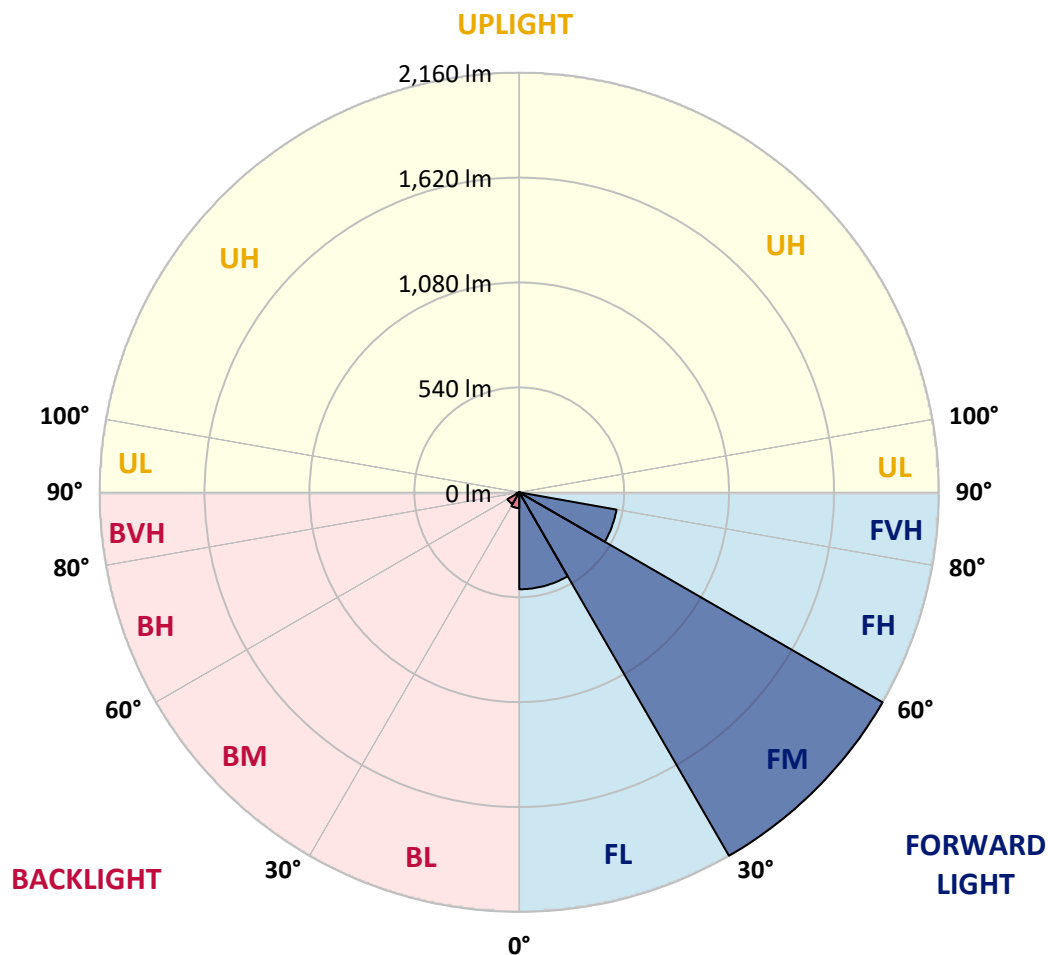
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	499.1	14.9			
FM	(30°-60°)	2160.5	64.7			
FH	(60°-80°)	508.5	15.2			G0/660
FVH	(80°-90°)	4.3	0.1			G0/10
BL	(0°-30°)	81.1	2.4	B0/110		
BM	(30°-60°)	70.0	2.1	B0/220		
BH	(60°-80°)	15.4	0.5	B0/110		G0/110
BVH	(80°-90°)	0.2	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-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	747.8	747.8	747.8	747.8	747.8	747.8	747.8	747.8	747.8	747.8	747.8
2.5°	938.4	924.4	924.9	918.5	895.3	877.1	858.3	853.8	824.4	793.5	763.8
5°	1100.7	1090.4	1088.0	1075.7	1043.4	1009.2	972.6	964.1	906.6	843.4	781.3
7.5°	1184.0	1184.1	1182.1	1177.7	1157.5	1124.3	1079.6	1070.7	992.4	897.6	799.4
10°	1159.8	1165.3	1176.5	1191.3	1206.8	1202.6	1169.0	1160.9	1075.8	955.0	819.6
12.5°	1103.2	1104.0	1116.5	1140.9	1185.3	1230.9	1231.4	1228.7	1155.6	1015.0	841.8
15°	1075.1	1077.9	1082.5	1098.2	1140.3	1213.3	1265.5	1269.4	1228.7	1078.7	865.5
17.5°	1093.6	1097.5	1093.6	1095.5	1119.8	1185.4	1271.4	1281.3	1292.6	1141.7	887.8
20°	1143.6	1147.2	1140.3	1132.7	1137.4	1177.4	1267.2	1280.6	1342.6	1197.7	906.6
22.5°	1211.1	1212.5	1202.0	1189.5	1186.0	1204.8	1270.7	1284.5	1382.7	1248.3	918.4
25°	1285.4	1286.7	1273.5	1259.1	1250.9	1258.5	1299.1	1309.4	1418.0	1296.6	925.2
27.5°	1366.3	1367.4	1351.0	1333.2	1323.7	1324.0	1345.9	1357.0	1455.7	1351.7	930.6
30°	1451.8	1451.2	1436.1	1411.4	1399.3	1399.0	1413.4	1424.7	1510.2	1422.4	938.1
32.5°	1547.8	1546.6	1525.2	1494.6	1480.9	1482.9	1495.7	1502.2	1577.8	1497.6	951.6
35°	1674.3	1670.9	1638.5	1600.6	1575.3	1574.6	1585.4	1590.6	1664.0	1588.8	973.9
37.5°	1838.4	1835.3	1791.4	1736.3	1700.8	1687.5	1700.4	1707.0	1787.0	1705.7	1009.8
40°	2000.1	1997.1	1971.0	1920.6	1865.9	1834.0	1844.1	1851.2	1940.6	1847.6	1055.1
42.5°	2111.8	2114.4	2123.4	2127.6	2076.4	2009.5	2014.1	2021.5	2101.9	1999.3	1106.9
45°	2141.2	2146.8	2198.1	2298.9	2318.1	2265.9	2217.6	2221.6	2265.9	2151.0	1158.6
47.5°	2052.8	2063.2	2162.2	2349.7	2512.0	2549.0	2457.5	2452.2	2423.2	2273.7	1195.4
50°	1851.9	1861.4	1989.8	2267.1	2570.9	2819.2	2745.1	2729.3	2561.2	2347.1	1208.4
52.5°	1561.2	1572.7	1677.0	2006.9	2460.0	2939.7	3017.3	3004.2	2662.4	2352.9	1210.5
55°	1102.5	1116.5	1226.8	1538.1	2108.6	2843.8	3113.8	3109.9	2746.5	2337.6	1215.1
57.5°	619.6	629.7	748.7	986.0	1544.3	2477.0	3013.0	3038.8	2797.3	2311.0	1222.1
60°	275.1	277.9	339.4	490.8	904.1	1893.0	2724.4	2768.0	2753.7	2275.6	1233.7
62.5°	152.6	150.3	150.3	204.0	392.9	1171.9	2221.6	2293.6	2567.8	2233.6	1234.3
65°	119.5	117.4	111.2	112.0	149.7	520.1	1538.4	1666.3	2214.9	2110.6	1192.8
67.5°	101.4	99.5	93.3	90.8	93.0	171.6	845.3	978.1	1680.6	1790.9	1033.2
70°	85.7	84.4	81.2	78.2	72.7	84.8	323.4	413.7	1035.6	1191.3	705.3
72.5°	68.9	68.3	69.5	66.9	60.3	56.5	110.6	134.0	465.2	531.7	290.6
75°	59.4	59.1	59.7	57.1	49.6	39.4	56.2	61.4	131.2	130.1	58.8
77.5°	38.6	39.1	49.5	48.3	42.7	26.2	29.1	31.4	39.8	29.8	17.9
80°	24.7	24.4	25.1	40.1	38.4	20.0	14.6	15.3	19.2	14.7	8.7
82.5°	15.0	14.7	16.4	18.7	19.3	14.0	8.9	9.1	12.0	9.5	4.6
85°	1.3	1.7	9.9	9.2	6.6	4.3	4.3	4.6	6.3	5.6	2.6
87.5°	0.0	0.0	1.7	2.6	1.4	1.6	1.6	1.7	2.5	2.5	1.3
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°	747.8	747.8	747.8	747.8	747.8	747.8	747.8	747.8	747.8	747.8	747.8
2.5°	748.4	733.4	703.1	674.0	649.3	625.5	598.4	571.6	559.0	554.0	548.8
5°	749.7	718.8	656.4	593.5	528.3	469.6	419.6	368.3	342.6	331.4	326.2
7.5°	751.4	704.4	603.5	497.9	392.9	313.3	243.8	199.1	179.8	176.8	169.3
10°	751.7	687.0	542.0	392.4	263.4	188.9	145.3	122.3	113.8	112.3	109.9
12.5°	752.3	666.3	473.8	290.6	175.6	126.3	105.1	97.5	95.2	95.0	95.0
15°	754.0	644.7	403.0	209.4	126.2	100.1	92.3	89.3	88.4	88.8	88.7
17.5°	754.0	619.2	333.5	156.0	101.9	90.0	85.7	83.6	83.3	83.8	83.9
20°	748.5	588.2	269.8	121.4	90.4	83.5	79.6	77.7	77.0	77.3	77.4
22.5°	735.4	550.1	217.9	100.5	82.8	77.6	73.4	70.5	69.4	69.5	69.5
25°	714.9	505.0	170.4	87.0	76.6	71.2	66.3	63.0	62.3	62.1	62.4
27.5°	688.7	455.1	135.7	76.6	69.2	64.2	59.3	56.5	55.9	56.1	56.2
30°	662.9	403.3	107.0	67.8	61.0	56.2	52.5	51.2	51.2	51.6	51.8
32.5°	639.2	353.6	84.6	60.1	53.6	49.3	47.2	47.0	47.7	48.0	48.2
35°	618.9	307.6	70.1	54.2	47.9	44.1	43.4	44.0	44.8	45.4	45.6
37.5°	604.5	266.5	61.3	49.3	43.4	40.4	40.2	41.4	42.5	43.8	44.1
40°	598.4	231.7	55.2	45.0	39.8	37.5	37.1	38.6	40.8	42.7	43.0
42.5°	593.4	203.3	50.0	40.8	36.9	33.6	33.5	35.5	38.1	39.9	40.4
45°	589.0	180.5	45.3	36.3	33.2	28.8	29.3	31.9	33.9	35.9	36.3
47.5°	580.1	161.8	40.1	31.6	27.4	24.7	25.5	27.8	29.4	32.4	32.9
50°	564.1	146.5	34.8	25.8	22.4	21.3	22.6	24.2	26.2	28.8	29.1
52.5°	553.3	135.0	30.1	21.6	18.5	18.7	20.0	20.6	21.8	22.8	22.5
55°	547.1	128.6	26.4	18.7	15.7	16.6	16.9	16.1	15.6	14.6	14.1
57.5°	546.4	122.9	23.5	16.3	13.8	14.3	13.3	10.8	8.8	7.6	7.4
60°	545.2	115.8	21.2	13.7	12.3	11.7	9.5	5.9	4.2	3.9	3.9
62.5°	532.7	104.8	19.5	11.5	10.4	8.8	5.5	2.7	2.3	2.5	2.5
65°	492.7	89.5	17.7	9.4	8.2	6.3	2.7	1.6	0.9	1.0	1.0
67.5°	418.9	71.4	15.9	7.2	6.2	4.0	1.6	0.7	0.0	0.0	0.0
70°	280.5	44.3	13.4	5.0	4.0	2.5	1.2	0.1	0.0	0.0	0.0
72.5°	107.6	23.9	10.8	3.0	2.6	1.7	0.7	0.0	0.0	0.0	0.0
75°	24.2	15.7	7.5	2.2	1.9	1.2	0.3	0.0	0.0	0.0	0.0
77.5°	9.2	11.4	4.3	1.4	1.3	0.7	0.0	0.0	0.0	0.0	0.0
80°	4.5	6.8	2.0	0.9	0.7	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	2.3	2.6	0.9	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.3	1.3	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.4	0.1	0.1	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)