

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: McGRAW-EDISON

Report Number: P450384

Luminaire Tested: **GALN-SA1A-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3747 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 33
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

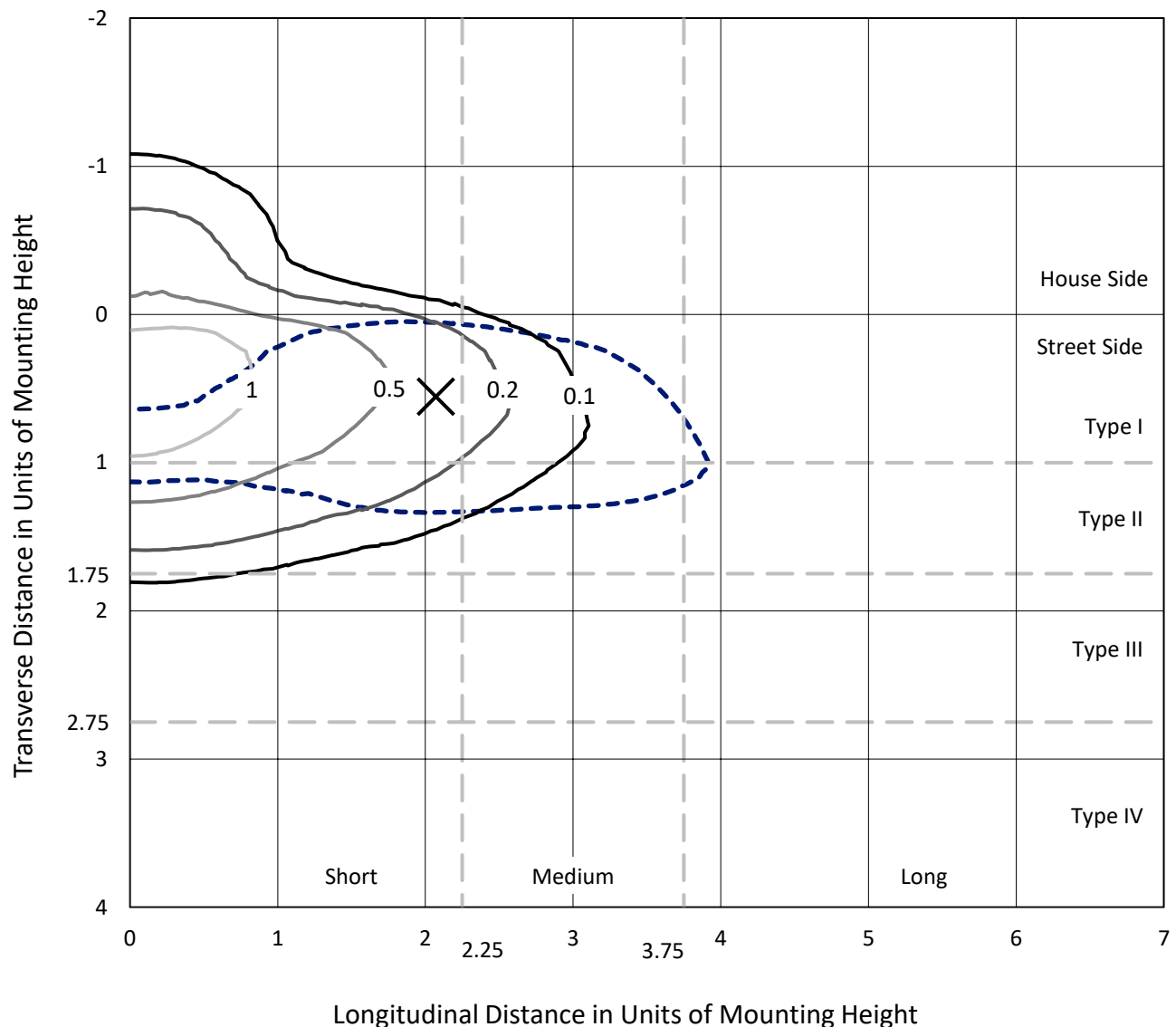


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

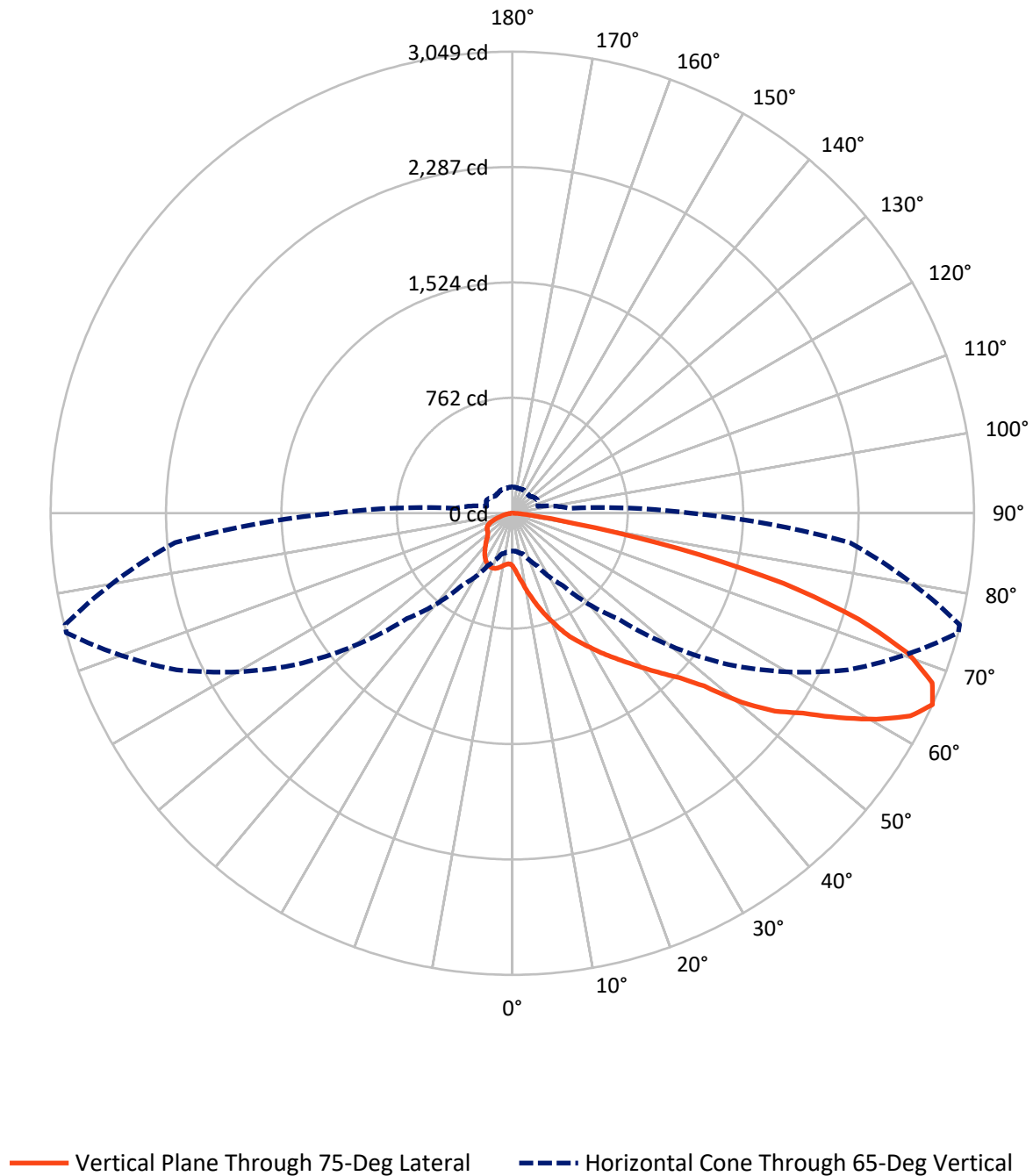


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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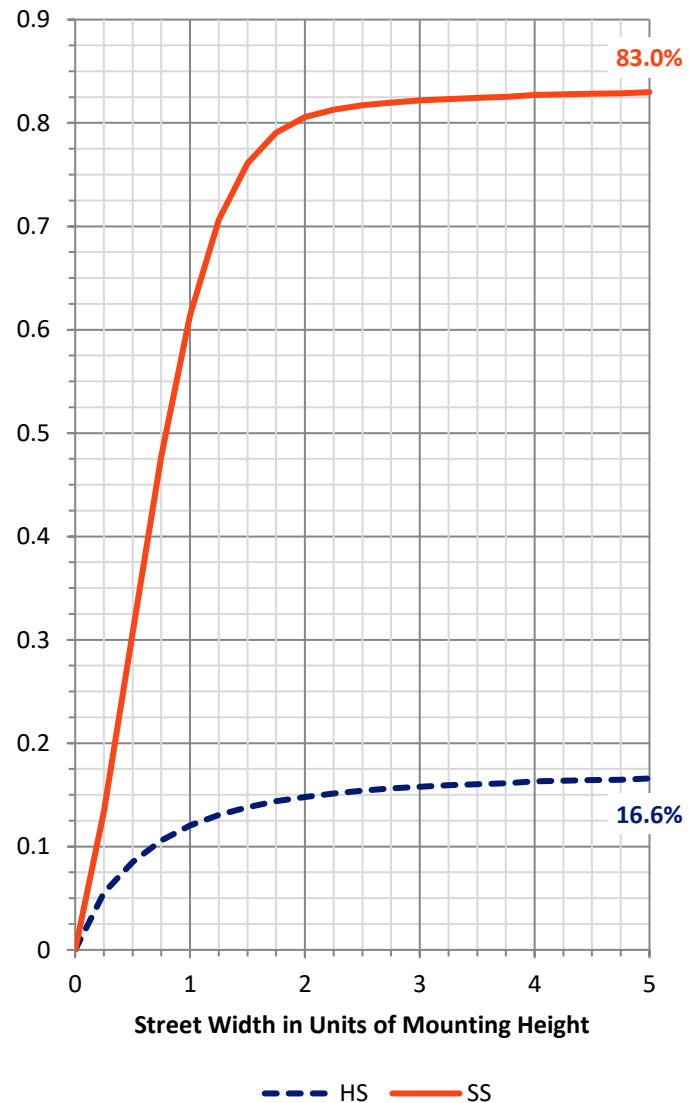
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	629.9	0.0	629.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	3117.1	0.0	3117.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	3747.0	0.0	3747.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.3	1.1
10°-20°	165.7	4.4
20°-30°	320.0	8.5
30°-40°	519.8	13.9
40°-50°	715.1	19.1
50°-60°	844.3	22.5
60°-70°	739.7	19.7
70°-80°	353.1	9.4
80°-90°	47.0	1.3
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°	3747.0	100.0
0°-180°	3747.0	100.0

Coefficient of Utilization



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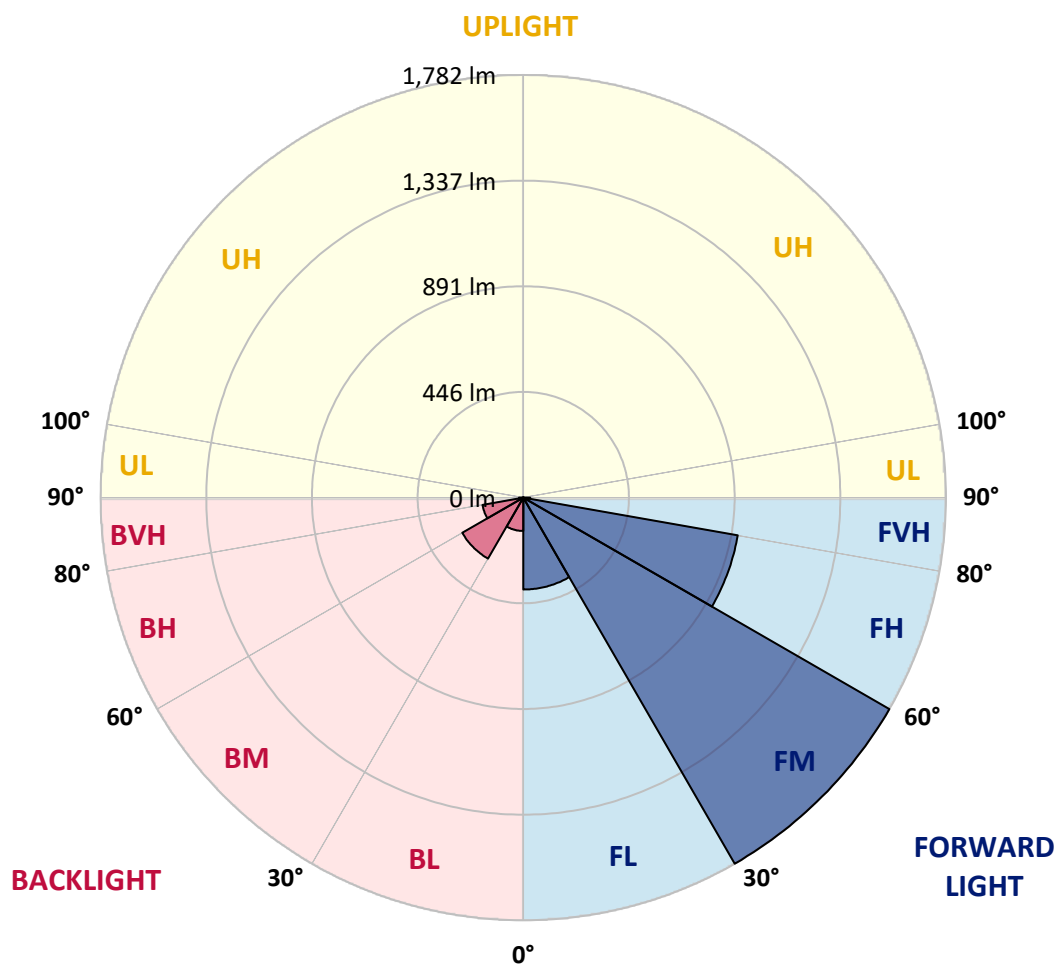
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	387.4	10.3			
FM	(30°-60°)	1782.2	47.6			
FH	(60°-80°)	918.2	24.5			G1/1800
FVH	(80°-90°)	29.4	0.8			G1/100
BL	(0°-30°)	140.6	3.8	B1/500		
BM	(30°-60°)	297.0	7.9	B1/1000		
BH	(60°-80°)	174.7	4.7	B1/500		G1/500
BVH	(80°-90°)	17.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	348.1	348.1	348.1	348.1	348.1	348.1	348.1	348.1	348.1	348.1	348.1
2.5°	462.6	459.5	456.3	447.3	437.8	427.0	411.6	396.7	377.0	376.4	361.8
5°	590.8	588.8	574.3	566.0	543.9	514.4	489.4	450.6	414.6	410.3	381.9
7.5°	708.7	700.8	695.3	680.2	658.3	620.5	572.1	519.7	459.5	453.8	406.7
10°	797.5	796.7	793.8	780.8	764.4	726.8	673.1	597.9	516.4	505.2	436.8
12.5°	864.0	864.6	864.2	864.0	852.2	820.3	762.1	682.9	573.9	566.0	471.5
15°	907.7	913.7	916.2	926.4	927.4	906.0	856.0	765.0	638.8	627.0	508.9
17.5°	936.5	939.6	950.9	968.2	982.2	978.4	933.9	841.0	705.0	685.3	547.7
20°	964.2	969.4	978.2	1001.8	1026.5	1037.9	1006.6	918.8	770.7	758.1	590.6
22.5°	1021.7	1029.2	1032.2	1044.2	1065.4	1085.5	1071.3	993.4	842.6	825.5	636.1
25°	1119.0	1126.9	1118.4	1115.6	1122.5	1132.4	1129.4	1063.7	910.5	886.1	679.2
27.5°	1245.8	1246.9	1230.2	1214.3	1197.3	1192.2	1182.8	1126.1	969.4	949.1	722.5
30°	1382.0	1377.1	1349.5	1320.8	1292.0	1263.5	1236.7	1186.3	1035.1	1011.7	765.0
32.5°	1508.4	1505.8	1475.1	1430.6	1381.8	1355.0	1300.7	1247.1	1105.4	1082.8	808.7
35°	1603.1	1607.0	1573.3	1524.7	1471.4	1447.7	1379.2	1310.9	1178.2	1153.6	856.2
37.5°	1670.4	1668.4	1638.5	1596.4	1549.7	1528.9	1470.8	1380.6	1256.4	1232.8	908.3
40°	1694.4	1693.2	1671.0	1640.3	1610.6	1603.3	1566.7	1455.8	1346.0	1318.4	970.9
42.5°	1679.1	1681.8	1667.1	1658.8	1653.3	1658.6	1662.1	1554.4	1443.8	1418.4	1038.7
45°	1632.4	1631.0	1628.9	1642.6	1673.4	1708.2	1756.4	1647.4	1550.1	1529.8	1129.8
47.5°	1548.9	1559.0	1564.1	1601.7	1669.2	1751.5	1864.9	1772.2	1704.3	1686.7	1268.6
50°	1432.0	1440.1	1470.2	1537.1	1637.7	1767.7	1971.0	1976.3	1961.6	1928.5	1419.4
52.5°	1249.5	1262.1	1324.1	1446.6	1573.0	1761.0	2035.2	2151.3	2170.6	2145.8	1568.0
55°	1045.2	1062.9	1128.4	1289.1	1484.0	1724.5	2079.5	2252.7	2329.7	2306.7	1711.0
57.5°	845.3	864.0	931.2	1086.9	1328.8	1643.6	2108.6	2365.7	2546.3	2516.5	1889.1
60°	633.5	653.0	710.7	871.1	1107.6	1485.5	2088.9	2463.6	2762.8	2750.0	2067.3
62.5°	408.7	430.3	480.5	613.2	851.4	1269.4	1983.4	2517.7	2950.2	2934.7	2197.4
65°	249.0	251.4	279.0	380.7	582.7	982.9	1742.1	2445.9	3048.9	3044.3	2237.0
67.5°	161.0	164.8	177.4	228.0	349.4	682.7	1393.0	2209.2	2991.2	2989.6	2155.1
70°	136.0	137.2	142.9	153.8	203.0	414.0	978.2	1831.8	2771.9	2771.9	1958.2
72.5°	121.5	123.2	125.2	128.6	144.9	234.5	583.7	1425.9	2393.3	2409.2	1666.7
75°	110.4	110.0	111.2	111.8	123.6	153.2	301.8	1054.6	1851.5	1819.8	1207.0
77.5°	94.5	95.1	94.5	97.1	109.1	116.7	153.2	707.7	1122.1	1081.0	605.8
80°	77.6	78.7	79.7	81.3	93.3	88.6	92.1	322.5	415.0	406.3	187.2
82.5°	58.3	59.8	61.4	65.2	73.4	58.5	58.1	137.8	149.8	137.2	68.9
85°	23.6	27.8	42.1	45.9	46.1	32.1	35.8	57.5	61.2	59.8	27.0
87.5°	5.5	6.5	13.6	20.5	18.9	12.0	13.2	18.7	21.3	19.7	9.1
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°	348.1	348.1	348.1	348.1	348.1	348.1	348.1	348.1	348.1	348.1	348.1
2.5°	355.1	347.9	335.7	326.4	319.7	313.8	310.1	307.9	307.1	306.9	307.1
5°	367.0	354.4	335.1	322.9	316.2	312.4	310.1	309.9	310.1	310.3	309.7
7.5°	383.5	365.4	340.2	328.8	323.8	320.9	319.9	319.5	319.7	319.5	319.5
10°	405.5	380.7	350.2	338.4	334.1	330.9	329.2	328.2	327.4	326.6	326.2
12.5°	429.6	397.5	360.9	349.6	343.5	338.4	334.7	332.1	330.3	328.4	328.0
15°	456.7	415.4	372.9	357.1	348.3	340.8	334.5	330.3	327.0	324.4	324.2
17.5°	482.5	432.3	381.1	360.5	347.7	337.2	328.8	322.9	318.9	315.4	315.0
20°	510.1	448.3	384.7	358.3	341.6	328.8	317.9	310.7	306.1	302.2	301.6
22.5°	538.0	462.0	384.3	351.2	331.1	316.0	304.4	296.9	291.4	287.6	286.2
25°	564.6	472.9	379.2	339.8	316.4	300.8	289.0	282.1	277.2	272.5	272.5
27.5°	588.6	479.4	369.7	326.0	301.4	284.9	275.6	269.3	264.8	261.8	259.9
30°	612.1	482.5	356.7	308.5	285.5	271.5	264.0	260.3	256.3	252.8	252.4
32.5°	633.3	481.9	340.4	291.4	270.5	260.5	257.5	254.7	250.4	245.5	244.3
35°	653.8	477.8	321.1	272.7	257.9	254.0	254.9	250.8	243.1	237.0	236.0
37.5°	676.2	470.5	300.0	257.5	247.3	251.0	253.0	244.1	231.5	221.9	219.7
40°	702.0	462.2	278.0	242.3	239.0	248.2	248.2	231.7	214.4	208.5	206.9
42.5°	732.3	455.2	259.7	229.5	232.1	241.2	240.2	215.2	208.1	205.1	204.3
45°	780.2	452.8	240.8	218.3	226.4	233.1	224.8	209.5	205.5	203.0	202.2
47.5°	856.0	455.7	224.2	209.9	219.9	225.0	207.5	205.7	202.8	199.4	199.0
50°	926.4	453.0	212.4	205.3	214.2	215.2	200.4	201.0	199.4	195.5	194.7
52.5°	983.9	444.7	204.9	202.8	209.3	198.2	193.7	195.9	195.3	190.4	189.6
55°	1047.1	439.6	201.2	202.8	206.1	183.3	187.4	190.6	189.8	186.4	186.2
57.5°	1123.7	440.6	198.6	203.4	202.8	175.8	181.1	184.9	184.7	183.7	183.7
60°	1202.1	441.0	194.5	203.2	199.0	169.9	174.6	180.1	180.5	181.1	181.1
62.5°	1228.2	423.3	186.6	199.6	190.4	164.2	168.5	176.0	175.6	177.2	177.4
65°	1179.6	374.4	174.8	191.2	179.5	160.2	163.8	170.7	168.5	172.8	173.6
67.5°	1073.7	309.7	156.5	176.2	167.3	155.9	160.8	163.4	159.3	167.7	167.9
70°	928.0	241.9	133.3	154.9	153.4	151.4	158.3	154.3	148.6	158.7	156.7
72.5°	776.0	184.7	106.5	126.6	134.9	144.7	154.1	142.5	134.5	137.6	133.9
75°	582.9	136.6	85.6	99.2	112.4	135.2	150.2	128.2	116.0	113.2	112.4
77.5°	297.1	89.2	64.0	74.2	84.3	122.1	144.9	111.6	96.1	91.7	89.6
80°	106.1	55.5	45.1	51.2	56.9	105.1	126.6	92.3	74.6	73.8	74.6
82.5°	49.2	35.8	30.3	33.5	33.7	70.1	96.5	68.9	56.7	86.2	72.8
85°	21.1	17.9	17.1	16.7	15.4	31.3	54.3	37.0	57.7	25.8	23.8
87.5°	6.3	7.1	6.3	4.7	3.5	3.5	5.5	2.0	1.4	1.0	1.0
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)