

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: P450615

Luminaire Tested: **GALN-SA1B-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 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: 3663 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): 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

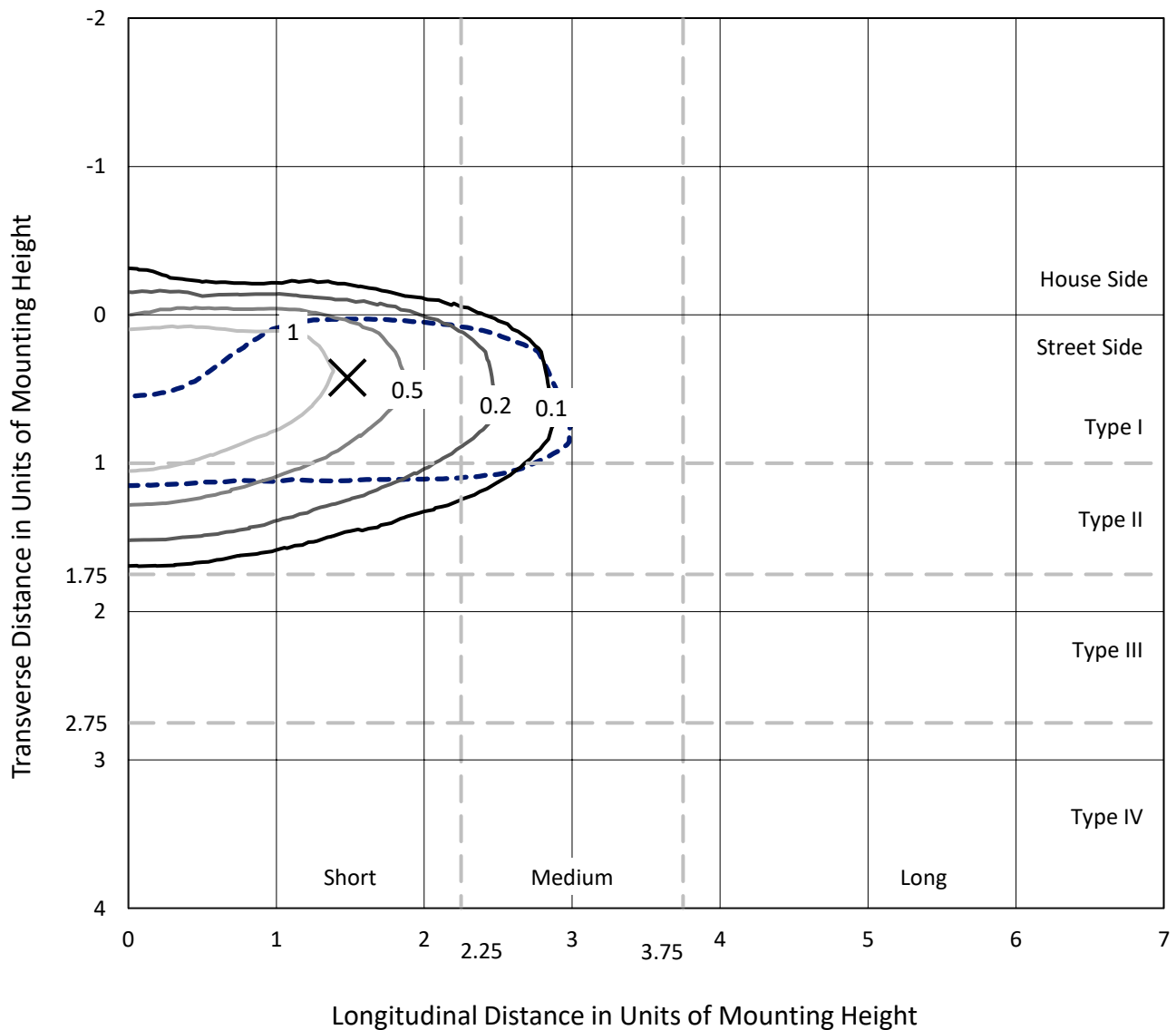


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Iso-Footcandle Lines of Horizontal Illumination

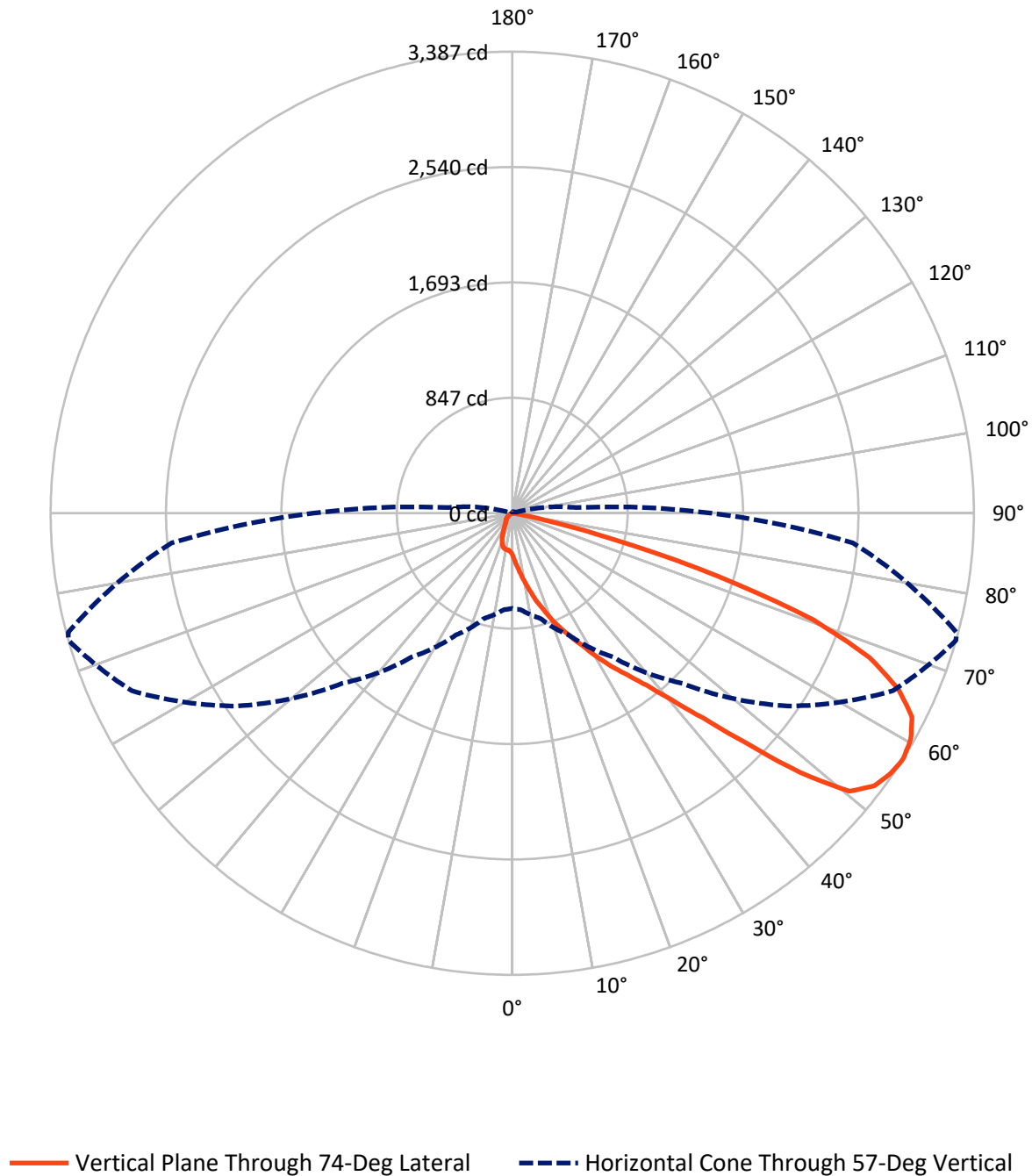
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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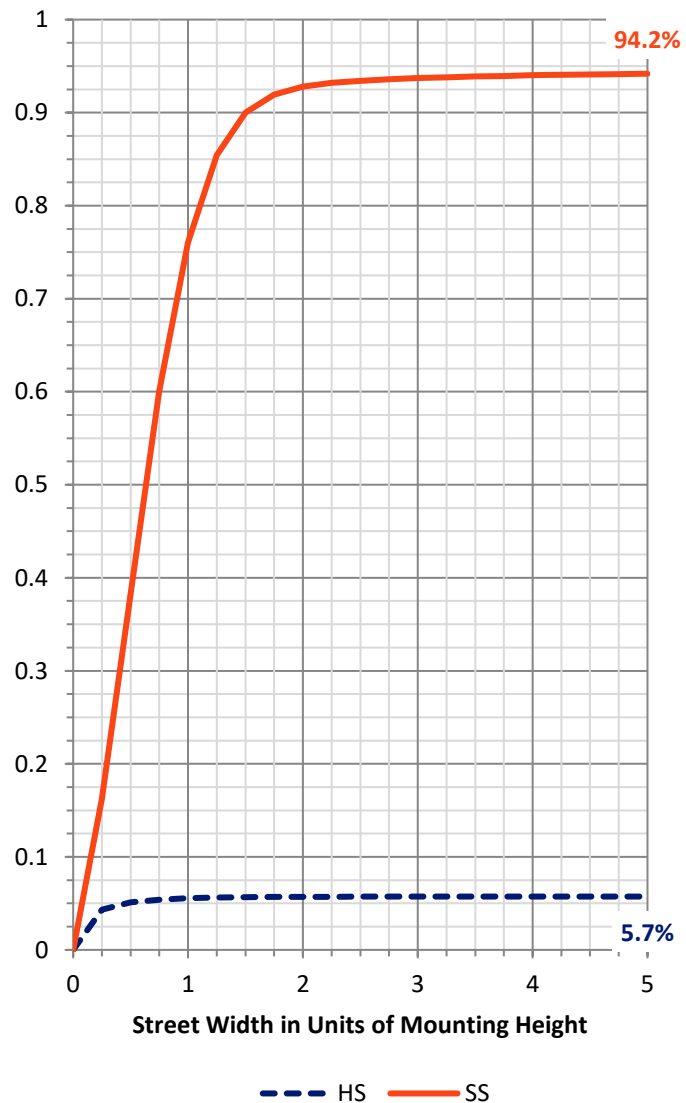
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	211.3	0.0	211.3
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	3451.7	0.0	3451.7
	% Fixture	94.2	0.0	94.2
Total	Lumens	3663.0	0.0	3663.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.0	1.0
10°-20°	145.9	4.0
20°-30°	312.3	8.5
30°-40°	574.0	15.7
40°-50°	879.9	24.0
50°-60°	930.9	25.4
60°-70°	607.9	16.6
70°-80°	166.1	4.5
80°-90°	9.0	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°	3663.0	100.0
0°-180°	3663.0	100.0

Coefficient of Utilization



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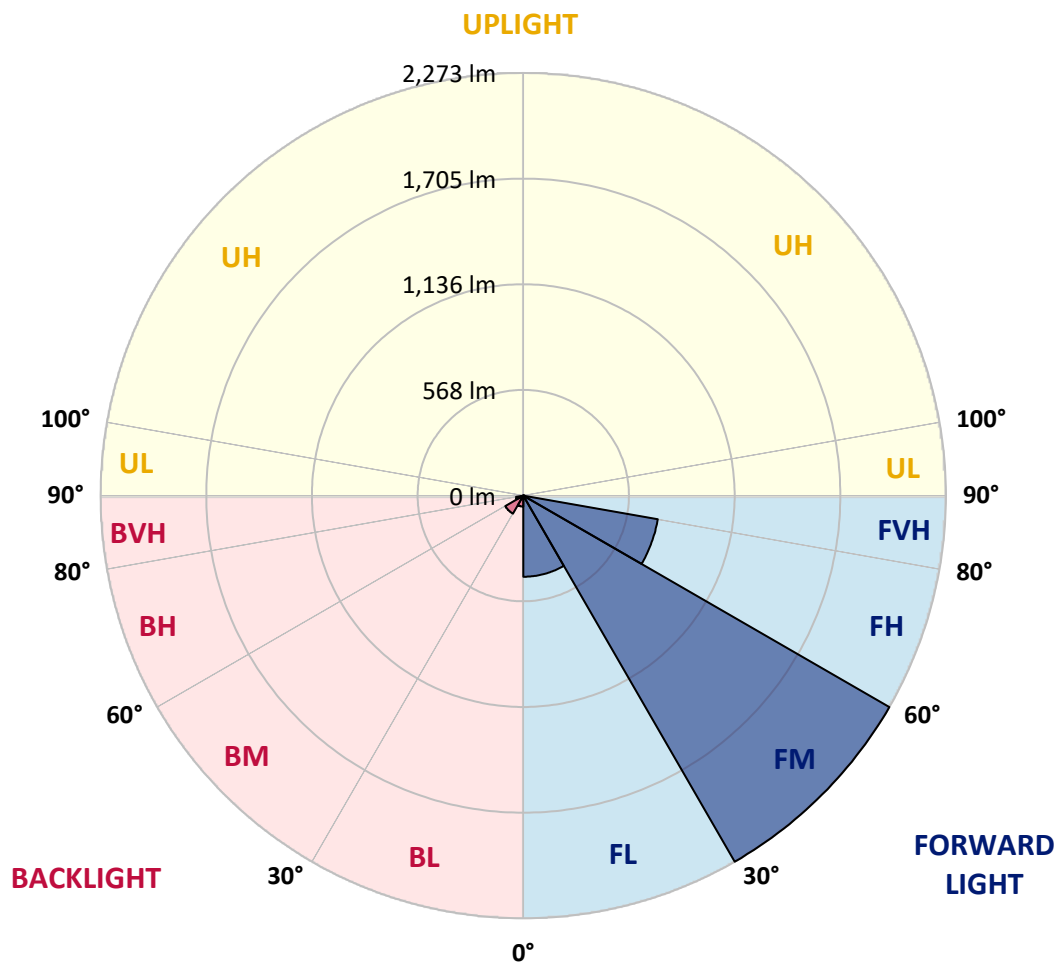
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	436.3	11.9			
FM	(30°-60°)	2273.0	62.1			
FH	(60°-80°)	734.3	20.0			G1/1800
FVH	(80°-90°)	8.2	0.2			G0/10
BL	(0°-30°)	59.0	1.6	B0/110		
BM	(30°-60°)	111.9	3.1	B0/220		
BH	(60°-80°)	39.7	1.1	B0/110		G0/110
BVH	(80°-90°)	0.7	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	306.8	306.8	306.8	306.8	306.8	306.8	306.8	306.8	306.8	306.8	306.8
2.5°	448.9	444.9	436.8	434.0	422.1	403.6	387.4	365.7	348.5	346.7	326.0
5°	601.2	592.0	588.3	570.0	541.5	514.7	468.6	433.7	393.5	390.5	348.8
7.5°	747.8	735.2	731.4	714.2	680.8	638.6	578.9	515.4	451.7	445.9	379.4
10°	854.1	855.8	849.0	837.6	810.6	767.6	694.0	607.2	516.4	509.1	413.7
12.5°	930.2	929.9	931.2	930.9	916.5	883.9	806.5	706.6	587.7	573.3	453.2
15°	979.7	980.5	984.3	997.4	999.0	978.7	914.2	801.7	670.4	652.5	495.9
17.5°	1029.8	1035.1	1041.2	1053.6	1064.7	1056.6	1011.1	900.8	745.3	731.9	541.7
20°	1112.5	1119.9	1116.3	1123.9	1129.7	1130.5	1095.3	992.4	836.1	813.6	594.1
22.5°	1244.8	1244.5	1235.4	1221.8	1210.4	1209.9	1178.0	1086.5	918.5	896.8	646.7
25°	1412.0	1412.7	1395.0	1356.1	1327.7	1293.1	1256.4	1168.9	1006.8	980.0	702.1
27.5°	1603.7	1598.9	1572.0	1518.4	1462.3	1403.1	1350.2	1264.8	1100.4	1078.1	765.5
30°	1775.9	1774.1	1742.8	1677.3	1603.4	1544.0	1467.3	1384.9	1221.5	1194.2	836.6
32.5°	1936.2	1938.8	1895.3	1827.5	1756.2	1687.6	1606.7	1499.7	1340.4	1301.7	914.0
35°	2061.4	2063.9	2018.9	1962.5	1889.2	1832.3	1755.1	1622.1	1457.7	1425.1	1003.0
37.5°	2128.2	2131.5	2105.4	2062.9	2017.2	1988.6	1916.8	1779.7	1600.4	1580.6	1108.2
40°	2140.8	2144.6	2133.2	2121.9	2119.3	2139.8	2118.8	1965.3	1798.1	1767.3	1265.0
42.5°	2102.9	2107.9	2113.0	2138.3	2189.9	2265.0	2338.1	2217.2	2052.8	2011.3	1456.7
45°	2003.2	2002.7	2022.7	2088.2	2203.8	2364.1	2567.2	2532.6	2399.8	2350.5	1727.6
47.5°	1832.8	1830.3	1873.5	1966.8	2146.9	2382.3	2754.1	2915.5	2842.6	2797.1	2018.7
50°	1573.1	1585.4	1653.5	1783.7	2005.5	2327.2	2811.8	3166.6	3206.1	3157.7	2253.9
52.5°	1268.8	1268.3	1375.0	1551.8	1796.1	2205.8	2771.6	3212.1	3324.2	3287.2	2369.7
55°	939.0	945.6	1056.6	1234.9	1524.2	1984.3	2640.3	3165.3	3369.2	3343.1	2446.1
57°	698.5	710.2	799.2	987.8	1287.5	1765.0	2465.6	3081.6	3386.9	3372.7	2509.6
57.5°	652.0	652.5	739.2	910.7	1218.2	1680.8	2415.5	3046.7	3386.4	3378.5	2519.9
60°	401.4	414.0	473.9	615.6	891.7	1311.8	2079.9	2846.2	3360.1	3371.5	2564.2
62.5°	240.3	245.6	284.5	371.0	574.8	957.5	1702.0	2589.5	3291.5	3326.2	2561.1
65°	154.5	155.8	173.5	224.6	359.4	647.2	1311.6	2250.3	3114.2	3178.0	2461.0
67.5°	119.4	121.4	128.5	147.4	208.4	403.1	927.6	1888.4	2827.5	2909.7	2218.2
70°	106.0	107.0	109.5	115.6	137.8	227.6	577.1	1475.2	2344.7	2367.9	1735.9
72.5°	86.5	89.3	97.1	99.1	109.3	142.1	321.2	990.1	1575.3	1581.2	971.1
75°	67.0	67.5	79.2	85.0	92.1	97.9	143.4	499.2	756.7	716.2	374.3
77.5°	50.1	52.4	57.7	65.0	75.1	70.1	64.2	188.2	234.9	230.6	108.7
80°	32.1	33.4	40.2	48.8	58.4	45.8	36.2	55.1	51.6	53.1	26.0
82.5°	16.2	16.4	25.8	39.7	37.2	23.0	22.8	22.5	19.2	19.0	12.1
85°	1.8	3.8	16.7	22.8	16.7	7.6	10.6	10.4	10.1	10.4	7.1
87.5°	0.3	0.3	2.8	3.3	2.3	2.5	3.0	3.3	4.0	3.8	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°	306.8	306.8	306.8	306.8	306.8	306.8	306.8	306.8	306.8	306.8	306.8
2.5°	315.9	305.8	287.0	269.1	255.7	247.1	236.0	231.9	226.1	225.3	222.6
5°	329.5	310.3	277.7	251.9	231.2	215.5	201.8	190.4	181.3	179.3	180.3
7.5°	349.0	320.4	274.9	239.8	210.9	184.1	162.4	149.0	139.3	135.8	136.3
10°	371.0	333.8	274.4	226.9	182.8	150.0	126.2	114.3	108.7	106.7	104.4
12.5°	397.1	349.3	273.1	206.9	152.0	119.6	102.7	95.6	90.3	88.8	88.8
15°	426.4	365.7	267.1	182.1	123.4	98.9	87.5	81.9	80.2	78.7	78.7
17.5°	457.0	381.9	254.4	151.5	102.4	84.7	77.6	74.4	71.8	70.1	70.1
20°	491.9	397.8	234.2	124.4	86.5	75.6	70.1	66.3	64.2	62.7	62.2
22.5°	525.0	410.7	208.4	102.2	75.4	68.0	63.0	58.9	56.9	56.1	56.1
25°	559.4	418.6	177.3	84.5	68.8	61.7	56.1	52.9	51.1	50.6	50.3
27.5°	592.8	423.1	150.0	73.8	62.7	55.9	50.6	48.1	46.3	45.8	46.0
30°	633.3	423.9	123.4	66.3	57.4	50.3	45.5	43.2	42.2	41.7	41.5
32.5°	674.2	422.9	103.7	61.7	52.4	45.5	41.5	39.7	38.9	38.2	38.2
35°	720.3	417.5	88.3	57.2	47.5	41.5	37.9	36.4	35.4	34.6	34.4
37.5°	777.4	414.8	79.4	52.1	43.2	37.7	34.4	32.9	32.1	31.1	30.9
40°	867.5	427.2	76.6	47.5	38.9	34.1	31.1	29.3	28.3	27.3	27.1
42.5°	979.7	448.9	72.1	43.0	35.2	30.9	27.8	25.8	24.0	22.8	22.3
45°	1125.2	477.5	65.0	38.2	31.9	27.3	24.5	22.0	19.7	18.7	18.5
47.5°	1277.7	505.0	58.7	34.4	28.3	24.3	21.2	18.5	16.4	15.7	15.4
50°	1371.2	510.6	54.6	30.1	24.8	21.0	18.0	15.4	14.2	13.4	13.4
52.5°	1414.0	501.8	49.1	26.3	21.5	18.5	15.4	13.4	12.6	12.1	11.9
55°	1443.8	488.1	41.7	22.8	18.5	15.7	13.7	12.1	11.1	10.6	10.4
57°	1461.3	469.6	36.2	20.0	15.9	13.7	12.1	10.9	9.9	8.9	8.9
57.5°	1462.0	462.6	34.6	19.7	15.2	13.2	11.9	10.6	9.4	8.3	8.1
60°	1439.5	414.0	27.8	16.7	12.1	11.1	9.9	8.3	6.6	5.6	5.3
62.5°	1367.2	352.3	23.0	14.2	9.9	8.6	7.1	6.3	4.6	3.3	3.3
65°	1257.7	285.8	19.7	11.4	8.1	6.3	4.8	4.6	2.8	1.5	1.3
67.5°	1099.4	222.6	16.7	9.4	6.8	4.6	3.3	3.0	1.5	0.5	0.0
70°	837.6	151.7	13.9	7.6	5.1	3.3	2.3	1.8	1.0	0.3	0.0
72.5°	482.8	83.5	11.6	5.8	3.8	2.5	1.8	1.0	1.0	0.0	0.0
75°	172.5	35.9	8.9	4.3	3.0	2.0	1.3	0.5	0.8	0.3	0.0
77.5°	54.9	19.2	5.8	3.3	2.5	1.5	1.0	0.5	0.5	0.3	0.0
80°	16.2	10.1	3.5	2.8	1.8	1.3	0.8	0.3	0.5	0.3	0.0
82.5°	8.9	5.1	2.8	2.0	1.8	1.0	0.8	0.3	0.3	0.3	0.0
85°	4.6	3.0	2.3	2.0	1.8	1.0	0.8	0.3	0.0	0.3	0.3
87.5°	2.5	2.3	2.3	2.0	1.8	1.3	0.8	0.3	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)