

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: P450614

Luminaire Tested: **GALN-SA1B-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
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-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4601 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - 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



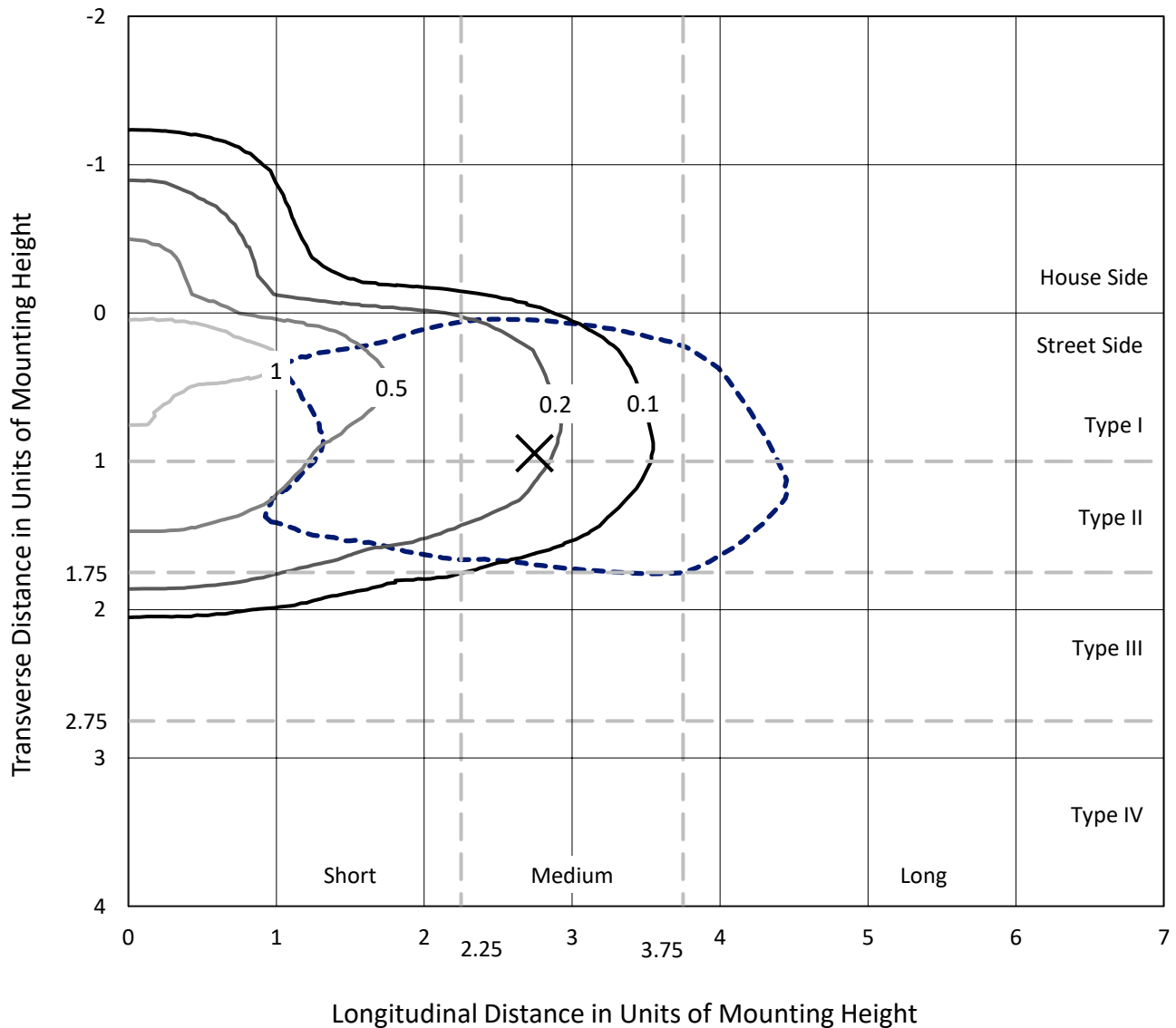
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

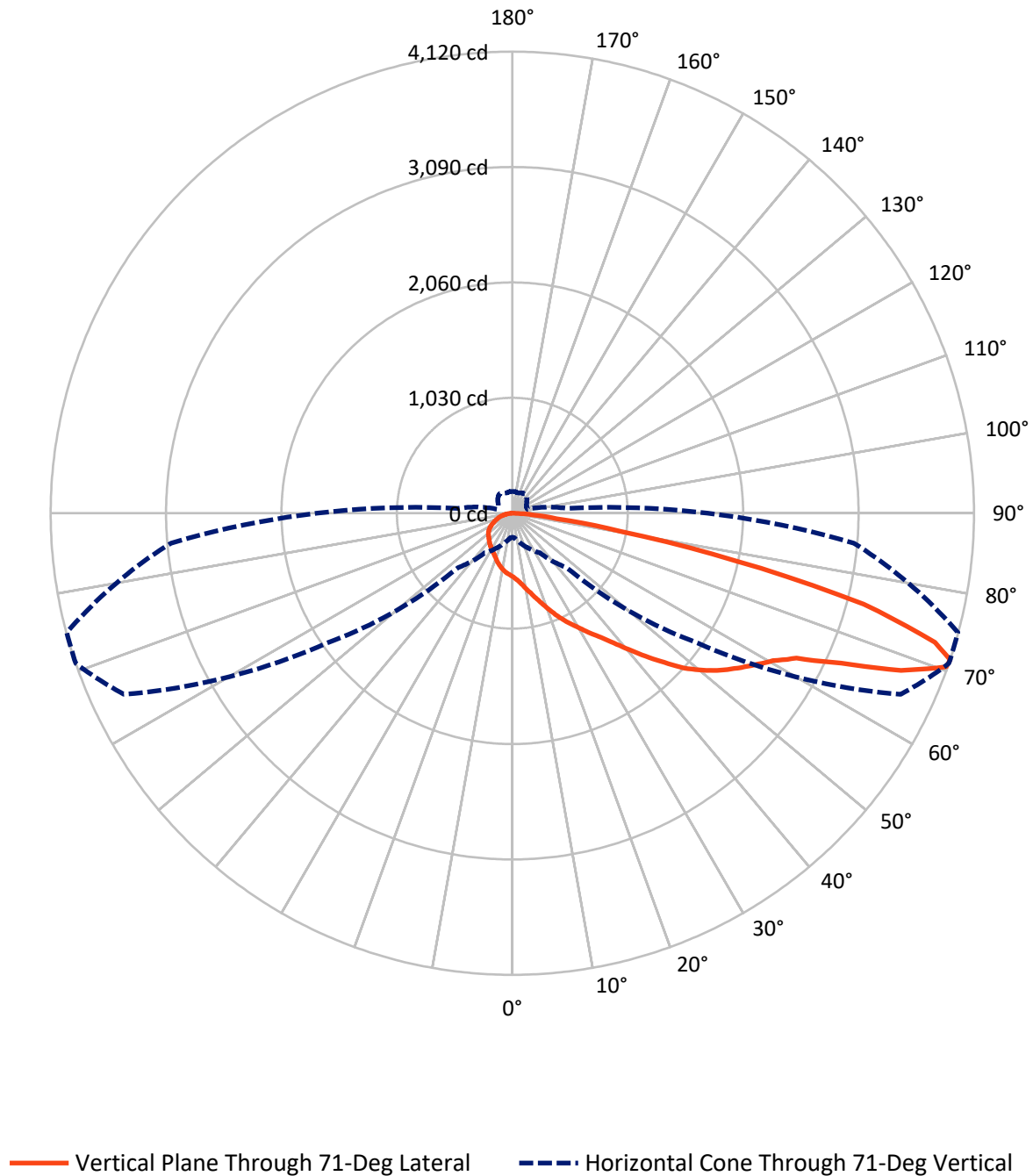


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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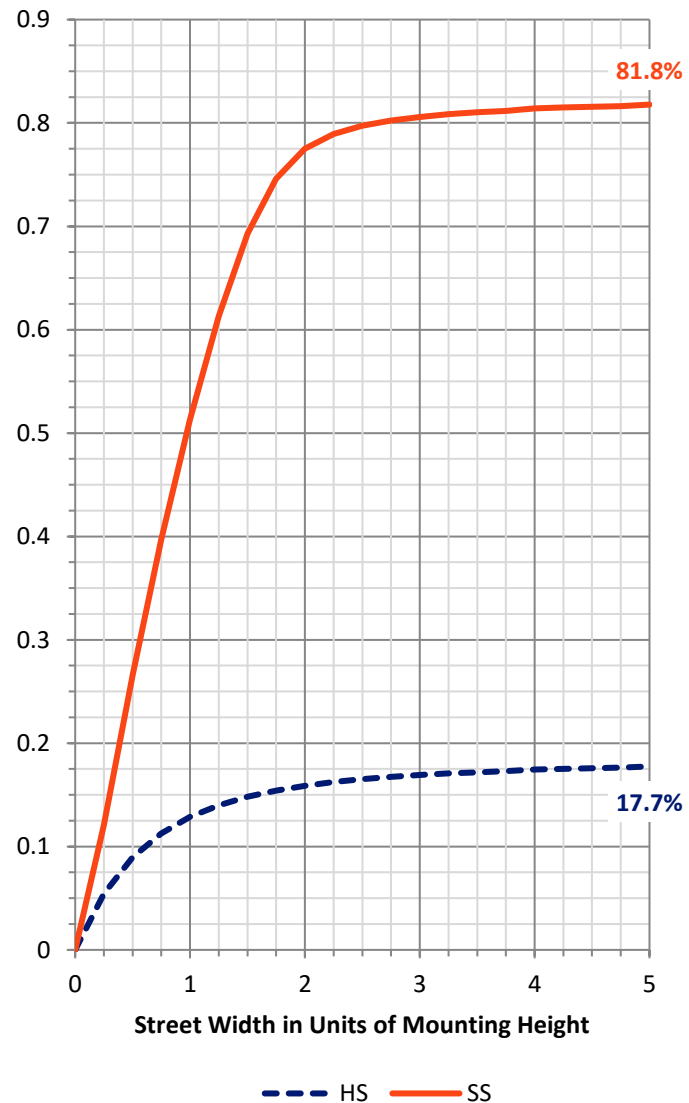
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	827.5	0.0	827.5
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	3773.5	0.0	3773.5
	% Fixture	82.0	0.0	82.0
Total	Lumens	4601.0	0.0	4601.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.7	1.2
10°-20°	184.2	4.0
20°-30°	321.9	7.0
30°-40°	478.8	10.4
40°-50°	705.5	15.3
50°-60°	987.7	21.5
60°-70°	1104.7	24.0
70°-80°	674.8	14.7
80°-90°	86.8	1.9
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°	4601.0	100.0
0°-180°	4601.0	100.0

Coefficient of Utilization



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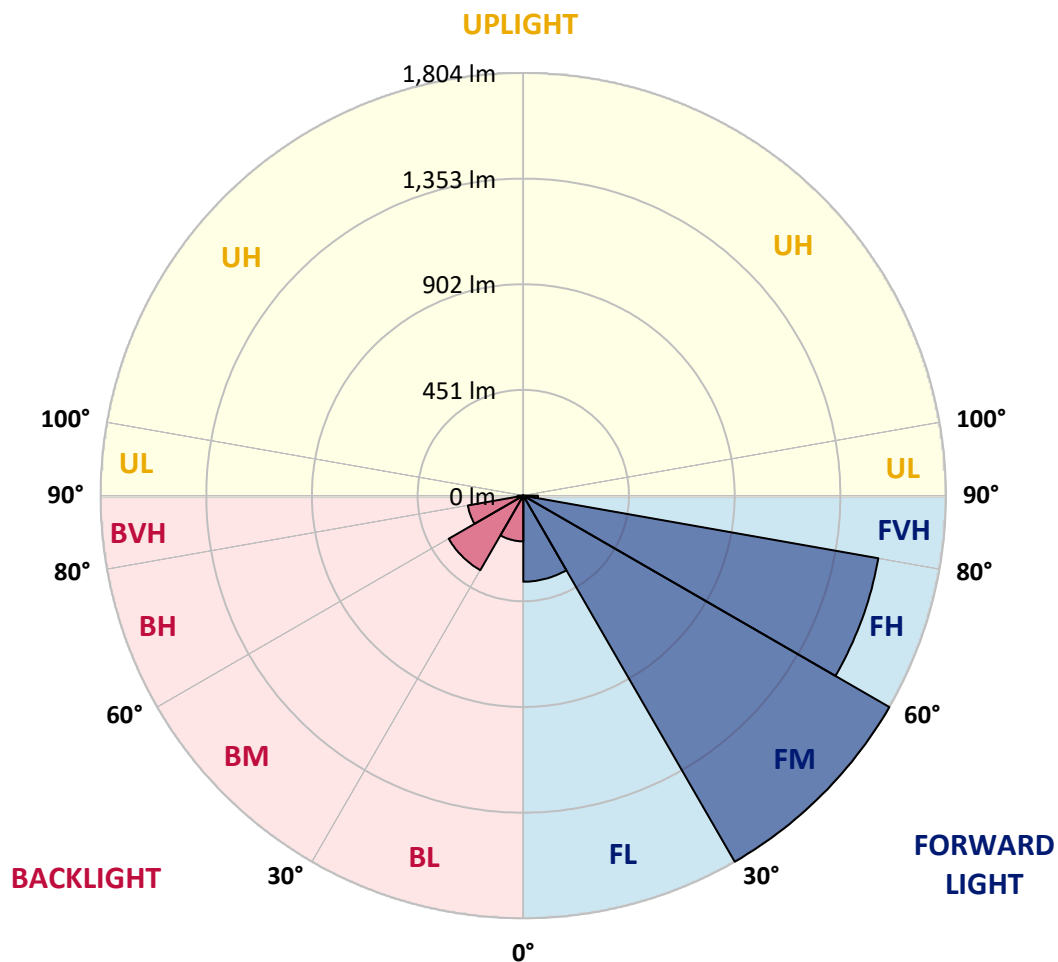
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	367.6	8.0			
FM	(30°-60°)	1804.4	39.2			
FH	(60°-80°)	1539.0	33.4			G1/1800
FVH	(80°-90°)	62.5	1.4			G1/100
BL	(0°-30°)	195.2	4.2	B1/500		
BM	(30°-60°)	367.5	8.0	B1/1000		
BH	(60°-80°)	240.4	5.2	B1/500		G1/500
BVH	(80°-90°)	24.3	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7
2.5°	626.9	623.9	624.1	619.8	614.2	608.2	599.6	592.0	585.9	582.4	572.0
5°	694.7	691.6	687.8	678.5	674.4	659.5	640.5	623.4	610.2	602.9	582.1
7.5°	749.5	748.8	747.8	742.5	732.1	711.4	695.2	665.3	645.9	631.9	596.5
10°	783.4	784.7	785.4	786.5	782.2	771.3	749.0	711.4	686.6	668.9	615.3
12.5°	800.6	801.9	806.2	815.5	821.4	820.1	801.9	765.0	730.8	707.6	635.2
15°	811.2	813.3	820.8	833.2	852.7	865.1	856.3	822.1	784.7	757.1	659.0
17.5°	822.9	825.1	833.5	851.2	876.7	903.5	913.2	883.8	843.1	810.2	685.6
20°	829.4	832.5	844.4	867.6	897.5	936.4	968.3	952.9	908.3	871.9	716.2
22.5°	840.1	842.6	852.7	877.5	913.2	962.0	1023.4	1020.1	980.9	933.9	749.8
25°	868.9	872.9	878.0	892.9	927.3	988.0	1069.2	1091.9	1051.2	998.6	780.6
27.5°	923.3	926.6	926.3	928.3	947.8	1010.5	1108.9	1163.0	1121.0	1064.1	810.5
30°	985.2	986.5	987.5	982.9	987.2	1033.5	1145.3	1233.3	1191.3	1131.4	836.5
32.5°	1060.6	1063.1	1054.5	1042.9	1039.3	1067.7	1175.4	1303.6	1274.5	1199.7	862.3
35°	1149.6	1156.2	1138.7	1118.2	1103.8	1116.7	1215.8	1375.4	1359.7	1286.9	896.5
37.5°	1251.3	1259.3	1243.2	1203.0	1182.5	1186.0	1268.7	1464.2	1467.5	1386.3	947.3
40°	1334.5	1345.1	1345.6	1288.7	1257.6	1261.6	1335.7	1559.8	1597.4	1509.2	1007.2
42.5°	1389.3	1399.7	1410.6	1377.2	1344.6	1367.6	1413.9	1663.4	1743.6	1658.4	1090.9
45°	1449.5	1458.9	1464.9	1449.8	1431.6	1491.2	1508.2	1773.7	1899.4	1825.0	1182.5
47.5°	1519.3	1529.7	1535.5	1521.1	1514.2	1599.7	1609.8	1876.6	2065.8	1986.9	1283.6
50°	1612.4	1620.2	1617.2	1608.1	1606.5	1682.9	1707.4	1973.0	2203.1	2161.1	1388.6
52.5°	1728.2	1737.5	1740.8	1727.9	1722.1	1742.3	1786.1	2060.7	2328.0	2310.8	1500.6
55°	1798.2	1813.2	1863.2	1883.5	1897.4	1819.2	1870.8	2157.6	2440.0	2468.6	1621.0
57.5°	1708.5	1727.7	1839.7	1940.9	2071.6	2011.4	1990.9	2258.7	2552.1	2621.6	1765.1
60°	1489.5	1493.8	1638.2	1824.5	2087.5	2258.5	2241.5	2419.6	2673.5	2775.9	1955.0
62.5°	1033.3	1042.4	1213.1	1510.5	1890.8	2347.5	2667.9	2697.2	2847.4	3006.7	2233.4
65°	532.8	520.9	676.5	949.3	1425.5	2136.1	3013.3	3207.8	3224.7	3367.9	2625.4
67.5°	328.0	333.3	406.1	554.3	842.9	1552.4	2977.2	3831.6	3742.4	3811.2	2989.3
70°	246.3	252.9	303.0	379.3	513.9	887.6	2394.3	3982.9	4107.5	4089.8	3100.1
71°	214.2	221.0	273.1	345.2	431.7	685.1	2017.2	3824.6	4120.2	4117.1	3058.3
72.5°	182.6	186.9	227.6	292.3	363.9	480.2	1515.5	3430.1	3944.4	4045.3	2909.4
75°	143.4	146.7	164.9	223.0	286.5	294.9	813.3	2571.5	3239.7	3431.8	2422.1
77.5°	116.8	119.1	128.5	165.6	221.0	208.9	426.6	1673.8	2029.6	2223.1	1426.8
80°	92.8	95.3	100.9	112.3	165.6	148.9	203.6	848.2	980.4	978.4	569.5
82.5°	72.1	72.8	79.4	82.4	113.3	105.7	110.3	359.1	397.8	410.9	205.6
85°	45.5	47.8	70.3	63.2	67.8	62.0	54.4	142.6	175.8	173.2	82.2
87.5°	13.9	14.7	23.8	26.8	30.1	27.1	20.0	42.0	51.3	55.6	20.5
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°	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7
2.5°	568.0	565.2	555.3	547.2	539.6	531.3	524.2	522.2	520.4	519.7	519.4
5°	573.3	564.9	545.5	529.5	516.9	505.3	497.9	494.6	491.3	491.3	492.4
7.5°	580.9	565.7	535.6	511.8	495.9	485.0	479.7	479.2	480.0	480.7	481.0
10°	589.2	565.2	521.2	491.6	477.4	472.4	472.6	476.9	481.0	484.0	484.5
12.5°	597.3	562.2	504.2	472.6	463.5	464.5	471.6	481.2	489.1	493.4	493.6
15°	606.4	557.3	483.8	454.7	451.6	459.5	472.6	487.3	499.2	506.3	507.0
17.5°	614.0	549.3	462.3	437.2	441.0	455.4	473.6	492.6	507.0	515.9	517.4
20°	622.6	538.9	440.0	420.5	431.4	450.9	471.6	492.1	507.0	515.6	517.6
22.5°	629.4	524.2	418.8	406.9	422.8	445.3	464.8	481.2	493.4	497.9	501.0
25°	632.2	505.8	398.8	395.8	416.0	436.2	449.4	458.7	462.5	462.0	463.3
27.5°	630.7	484.5	381.6	386.9	407.4	422.1	428.6	427.9	421.0	414.7	417.8
30°	624.4	459.2	367.2	377.8	396.3	404.4	403.3	393.5	380.6	368.7	369.5
32.5°	613.0	431.9	353.8	367.4	380.6	384.1	377.3	364.4	345.9	330.5	328.2
35°	603.4	405.9	341.9	355.5	364.9	363.1	356.6	339.9	323.2	309.5	307.2
37.5°	601.9	383.6	330.5	342.1	347.5	344.9	336.8	322.7	316.6	306.2	305.0
40°	609.9	367.9	318.9	328.0	330.5	328.5	319.6	311.5	317.1	314.6	314.6
42.5°	631.9	359.6	308.5	313.8	315.8	317.4	311.0	304.2	311.0	299.4	295.6
45°	666.8	359.8	299.2	299.9	306.0	311.3	307.0	296.9	293.3	270.1	265.5
47.5°	718.2	368.4	291.6	286.8	297.6	306.5	300.4	285.8	270.1	254.7	251.9
50°	778.1	383.9	284.7	273.1	286.5	300.4	295.9	278.7	262.5	253.1	251.4
52.5°	844.6	403.3	276.4	257.9	272.9	297.6	296.9	277.7	255.4	249.1	247.6
55°	926.8	422.6	266.0	240.2	260.7	295.4	294.1	269.3	253.9	249.3	248.8
57.5°	1022.4	450.4	251.1	222.3	246.8	286.0	283.2	264.3	248.8	245.5	245.3
60°	1176.4	493.6	229.9	205.8	232.6	269.6	273.1	255.7	240.7	240.0	239.7
62.5°	1379.0	554.3	207.9	188.9	216.2	248.3	258.4	244.0	232.1	235.9	236.4
65°	1658.6	605.4	185.1	174.5	198.0	227.8	244.5	233.2	222.5	229.9	229.9
67.5°	1841.0	606.4	164.4	159.6	179.5	210.6	229.9	220.3	210.1	222.5	223.0
70°	1803.0	531.3	147.2	143.9	161.6	192.2	213.7	206.1	194.5	205.6	201.5
71°	1741.8	489.6	140.3	137.8	154.5	183.3	206.1	199.8	188.1	195.5	193.2
72.5°	1644.2	425.1	129.2	129.7	143.9	172.2	195.5	188.9	177.3	181.3	180.6
75°	1389.8	371.2	110.5	112.8	123.7	153.2	174.2	169.2	157.3	157.3	156.5
77.5°	868.9	259.5	91.8	93.1	104.9	131.2	149.7	145.4	134.0	130.2	129.2
80°	324.2	134.0	71.8	73.3	80.7	103.4	123.9	119.9	108.2	103.9	99.9
82.5°	122.6	67.3	52.9	51.6	59.4	78.9	97.1	92.3	83.2	72.8	69.8
85°	46.3	33.4	32.4	31.4	34.9	46.8	60.2	59.2	49.6	42.2	41.5
87.5°	12.1	10.9	12.6	9.4	9.9	8.9	9.1	3.8	1.8	0.8	0.5
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)