

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: P450854

Luminaire Tested: **GALN-SA1C-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5640 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 57
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

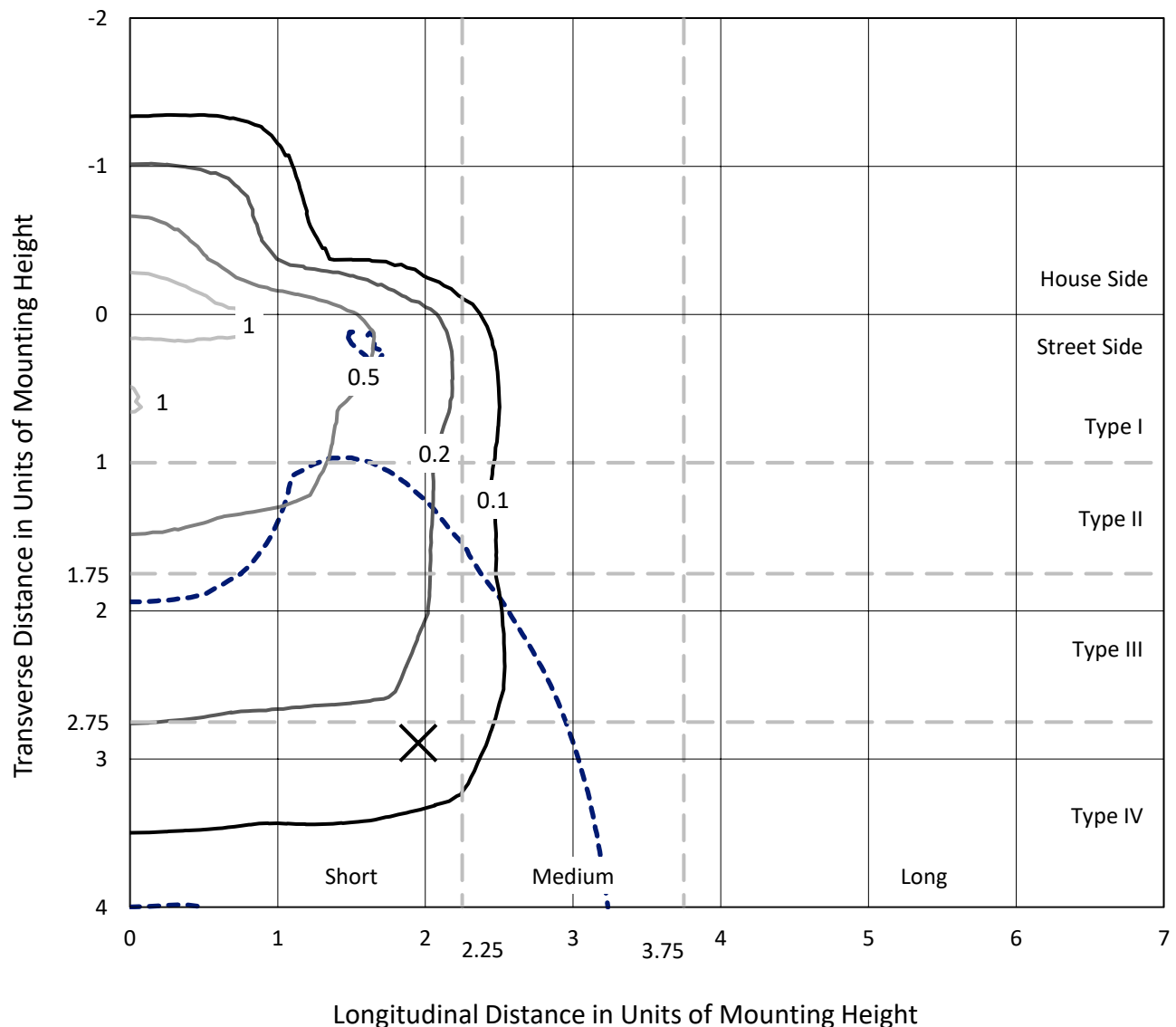


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

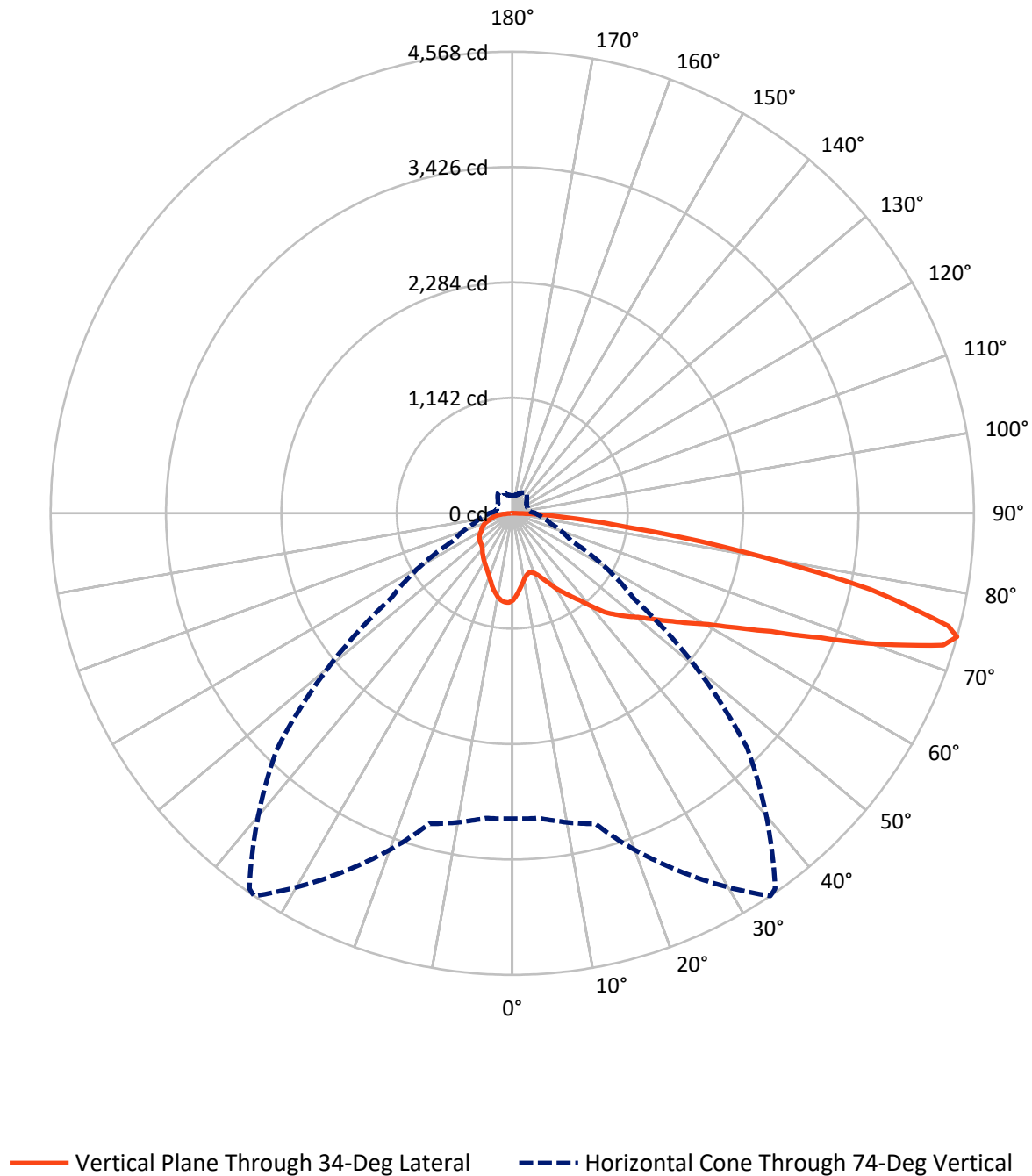


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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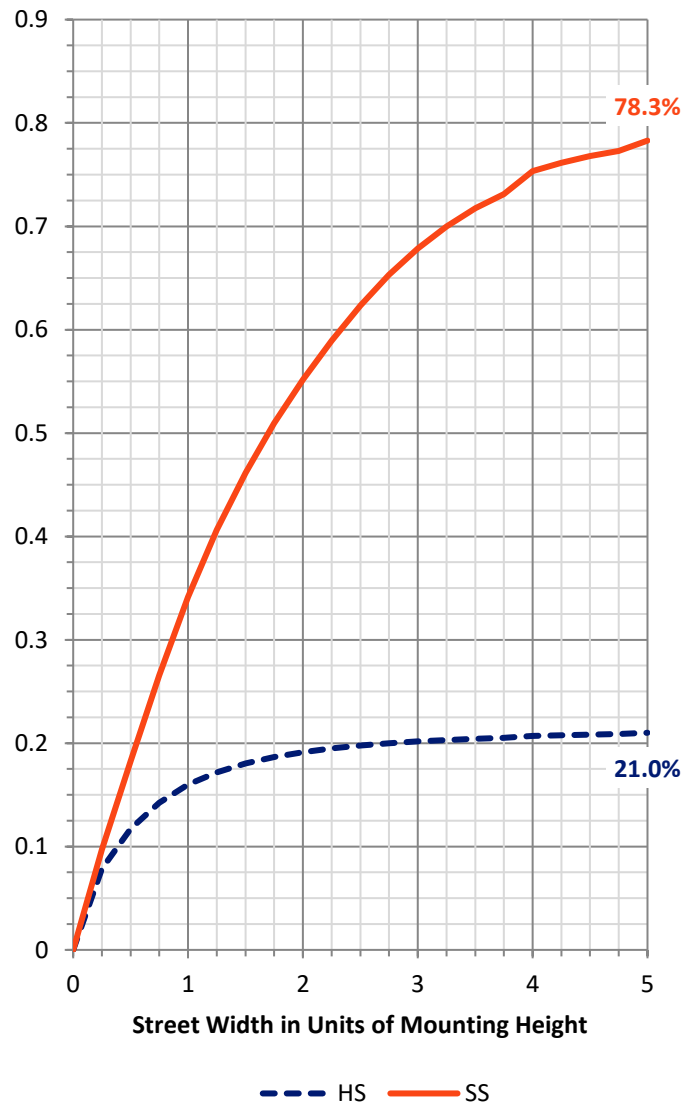
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1200.2	0.0	1200.2
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	4439.8	0.0	4439.8
	% Fixture	78.7	0.0	78.7
Total	Lumens	5640.0	0.0	5640.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	1.4
10°-20°	214.4	3.8
20°-30°	353.5	6.3
30°-40°	529.4	9.4
40°-50°	769.7	13.6
50°-60°	1075.0	19.1
60°-70°	1345.9	23.9
70°-80°	1113.0	19.7
80°-90°	160.8	2.9
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°	5640.0	100.0
0°-180°	5640.0	100.0

Coefficient of Utilization



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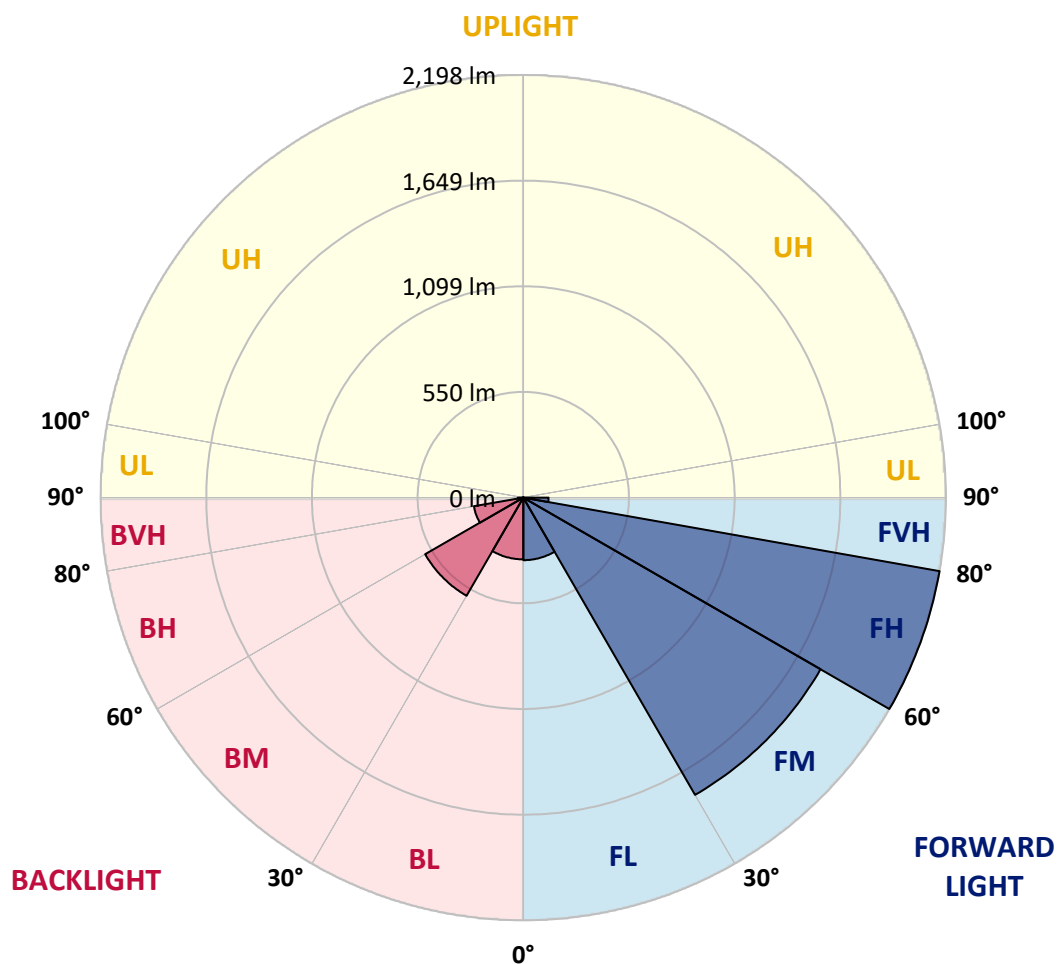
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	325.1	5.8			
FM	(30°-60°)	1784.7	31.6			
FH	(60°-80°)	2198.2	39.0			G2/5000
FVH	(80°-90°)	131.7	2.3			G2/225
BL	(0°-30°)	321.0	5.7	B1/500		
BM	(30°-60°)	589.4	10.5	B1/1000		
BH	(60°-80°)	260.7	4.6	B1/500		G1/500
BVH	(80°-90°)	29.1	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1
2.5°	795.8	799.9	802.1	809.9	811.7	814.2	820.8	829.6	840.8	850.8	859.6
5°	729.6	735.8	739.6	746.4	759.9	761.1	778.6	798.6	821.4	842.7	860.2
7.5°	666.8	673.6	676.8	689.3	707.1	709.9	735.5	767.1	805.2	837.4	864.2
10°	619.6	623.0	629.9	639.3	660.5	662.4	695.8	738.0	787.4	834.9	871.1
12.5°	594.0	595.8	597.4	607.4	628.3	631.2	666.1	714.0	773.3	836.7	882.4
15°	597.7	598.3	591.5	593.3	610.2	614.3	649.0	698.0	764.6	841.4	899.2
17.5°	629.3	627.1	610.2	601.5	613.3	615.2	645.5	691.8	760.5	850.2	916.7
20°	679.0	675.8	646.8	627.4	634.3	635.8	656.8	696.5	764.6	864.6	943.9
22.5°	740.8	739.6	695.5	672.1	671.8	671.8	682.7	713.3	776.8	884.2	972.3
25°	827.4	820.8	763.3	733.0	724.6	724.0	722.7	741.1	792.4	905.2	1006.1
27.5°	916.1	904.9	853.6	807.1	788.9	786.8	778.6	780.5	812.4	928.9	1044.5
30°	995.8	988.6	940.5	888.9	867.4	862.4	839.9	829.6	845.8	971.7	1105.8
32.5°	1056.7	1052.3	1014.8	968.0	936.1	935.2	902.4	893.9	898.0	1023.6	1175.8
35°	1106.1	1107.6	1088.6	1048.0	1011.4	1006.1	984.2	973.6	961.7	1098.6	1263.9
37.5°	1173.6	1177.0	1175.8	1140.8	1096.1	1097.3	1092.3	1074.8	1043.3	1182.3	1361.7
40°	1247.9	1250.4	1250.1	1236.7	1213.2	1214.5	1212.6	1192.6	1145.4	1288.9	1470.4
42.5°	1350.7	1338.9	1307.9	1321.4	1335.1	1341.0	1353.9	1334.8	1270.1	1402.6	1572.6
45°	1465.7	1443.2	1373.2	1379.5	1430.4	1441.7	1512.3	1486.0	1405.4	1533.2	1692.9
47.5°	1538.2	1516.0	1457.0	1455.7	1523.2	1534.1	1659.1	1649.4	1528.5	1674.1	1839.7
50°	1602.9	1599.8	1533.2	1549.1	1615.1	1631.3	1819.1	1810.0	1651.3	1840.3	1999.7
52.5°	1698.8	1673.5	1620.4	1653.2	1740.4	1761.6	1977.8	1951.3	1764.1	1987.2	2155.0
55°	1741.9	1736.0	1732.9	1761.3	1881.0	1896.3	2132.2	2071.2	1860.3	2111.5	2273.1
57.5°	1857.2	1846.3	1877.2	1896.6	2046.6	2070.0	2293.4	2196.5	1944.7	2210.3	2330.6
60°	2006.6	2000.6	2029.1	2064.1	2231.5	2267.1	2477.1	2303.4	2012.5	2260.0	2299.0
62.5°	2229.7	2229.0	2223.7	2298.7	2493.7	2526.5	2688.0	2407.4	2023.1	2222.8	2135.9
65°	2549.6	2538.4	2492.1	2574.0	2819.9	2858.3	2907.7	2465.6	1959.1	2031.9	1798.5
67.5°	2884.2	2883.6	2846.1	2952.4	3288.2	3327.9	3182.3	2452.7	1781.3	1646.0	1277.3
70°	3161.7	3148.3	3196.1	3479.1	3886.6	3932.5	3422.6	2301.8	1418.8	1087.0	758.9
72.5°	3228.2	3228.9	3328.2	3885.3	4461.2	4468.4	3509.1	1865.6	949.5	599.6	379.6
74°	3023.3	3028.6	3182.6	3905.6	4568.4	4535.9	3287.9	1466.3	642.1	391.5	273.7
75°	2759.6	2726.1	2948.9	3770.4	4457.1	4422.1	3028.9	1176.7	489.9	312.8	239.7
77.5°	1475.4	1509.5	1853.2	2813.6	3621.0	3580.7	2053.7	564.3	264.6	217.8	172.5
80°	525.2	579.3	814.2	1472.3	2321.5	2334.0	980.2	258.7	186.2	160.6	121.9
82.5°	214.3	220.3	349.6	653.3	1178.9	1190.1	400.3	153.7	133.1	110.6	72.8
85°	83.7	86.2	154.7	293.7	503.0	535.9	138.4	81.2	81.9	63.4	37.2
87.5°	28.1	31.9	63.4	97.8	170.9	167.5	40.3	24.1	29.4	27.5	11.6
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°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1
2.5°	863.9	869.9	873.9	878.3	882.4	883.6	882.7	885.5	885.8	886.1	886.4
5°	868.9	877.1	884.9	889.2	891.1	889.5	884.2	881.4	878.9	877.1	877.7
7.5°	875.8	887.4	894.5	896.4	891.4	884.2	871.1	860.8	854.2	849.9	849.6
10°	886.4	897.7	903.6	898.3	884.6	867.1	846.4	827.1	812.4	808.0	807.7
12.5°	899.9	912.7	912.4	896.7	872.7	841.4	808.0	785.5	765.5	755.5	759.6
15°	917.4	927.0	918.0	889.9	851.7	808.9	767.7	737.1	714.6	704.0	704.6
17.5°	937.7	946.1	922.0	877.7	822.4	767.4	719.6	690.5	672.7	664.9	664.3
20°	963.0	965.5	922.0	856.4	784.6	719.0	673.3	653.0	643.0	639.0	640.2
22.5°	990.2	985.2	917.0	826.4	734.9	668.3	637.7	628.7	623.7	623.0	623.7
25°	1020.8	1006.7	906.7	785.8	683.0	624.6	606.8	608.3	609.3	609.3	611.5
27.5°	1058.3	1030.2	889.5	734.6	622.4	584.0	579.0	589.9	594.9	595.8	597.4
30°	1107.6	1055.8	861.1	670.5	570.8	547.4	556.2	570.8	576.5	579.9	579.3
32.5°	1166.4	1083.9	822.7	606.5	529.3	521.8	532.4	547.4	553.7	555.5	553.0
35°	1235.4	1115.8	772.1	546.5	493.0	497.4	509.9	514.6	520.2	520.2	521.5
37.5°	1309.8	1141.4	710.2	491.5	464.9	480.9	489.9	485.5	483.1	479.9	481.5
40°	1385.4	1160.4	629.9	437.1	436.8	463.7	466.2	453.7	443.7	440.6	439.0
42.5°	1451.3	1172.3	557.4	394.9	410.2	446.8	448.7	428.7	412.7	403.4	400.3
45°	1529.1	1186.1	486.5	359.9	385.6	433.4	438.1	411.2	387.8	368.1	363.1
47.5°	1635.7	1217.3	430.6	332.8	367.8	424.9	431.5	396.8	365.9	340.3	336.2
50°	1756.0	1260.1	387.1	314.3	354.0	417.4	425.6	382.1	345.6	317.1	314.0
52.5°	1866.3	1283.2	349.6	297.8	340.6	403.7	417.7	371.5	325.6	294.0	291.2
55°	1926.6	1245.7	312.8	281.5	322.1	385.9	406.8	356.8	306.2	281.8	277.8
57.5°	1934.7	1168.3	279.3	264.0	302.8	364.0	386.5	339.0	293.7	273.4	270.0
60°	1871.9	1052.6	253.4	249.6	283.1	339.3	363.7	323.4	280.9	264.0	260.6
62.5°	1715.7	927.0	235.3	236.5	263.1	313.4	346.8	308.4	268.7	253.7	250.6
65°	1447.0	765.2	217.8	223.1	245.3	293.1	331.5	295.9	256.5	245.9	243.1
67.5°	1005.2	552.4	203.4	209.0	228.4	272.5	313.7	282.5	242.8	237.2	232.8
70°	556.5	339.9	186.5	193.1	210.9	249.3	293.7	262.1	222.8	220.3	214.0
72.5°	292.5	216.5	167.5	174.7	187.2	219.7	263.1	240.0	203.1	192.5	184.3
74°	228.4	177.5	154.7	162.2	170.6	202.2	245.0	224.0	189.0	176.5	170.3
75°	199.0	158.1	143.7	153.4	160.9	190.3	230.9	212.8	181.2	169.3	163.7
77.5°	140.6	118.4	117.5	129.0	133.1	166.8	208.1	193.7	161.5	149.0	143.7
80°	98.7	88.7	93.1	100.3	105.9	147.5	193.1	167.5	132.5	117.8	115.9
82.5°	64.4	58.1	66.6	73.1	75.0	108.7	155.9	127.2	96.5	78.4	72.8
85°	29.7	29.1	38.1	37.2	36.9	53.1	92.5	74.4	55.6	41.6	39.1
87.5°	7.5	7.2	9.4	7.8	9.4	8.1	8.4	2.2	0.3	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)