

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: P450616

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450616
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-SA1B-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4663 lumens
Efficiency: N/A
Efficacy: 106.0 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): 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

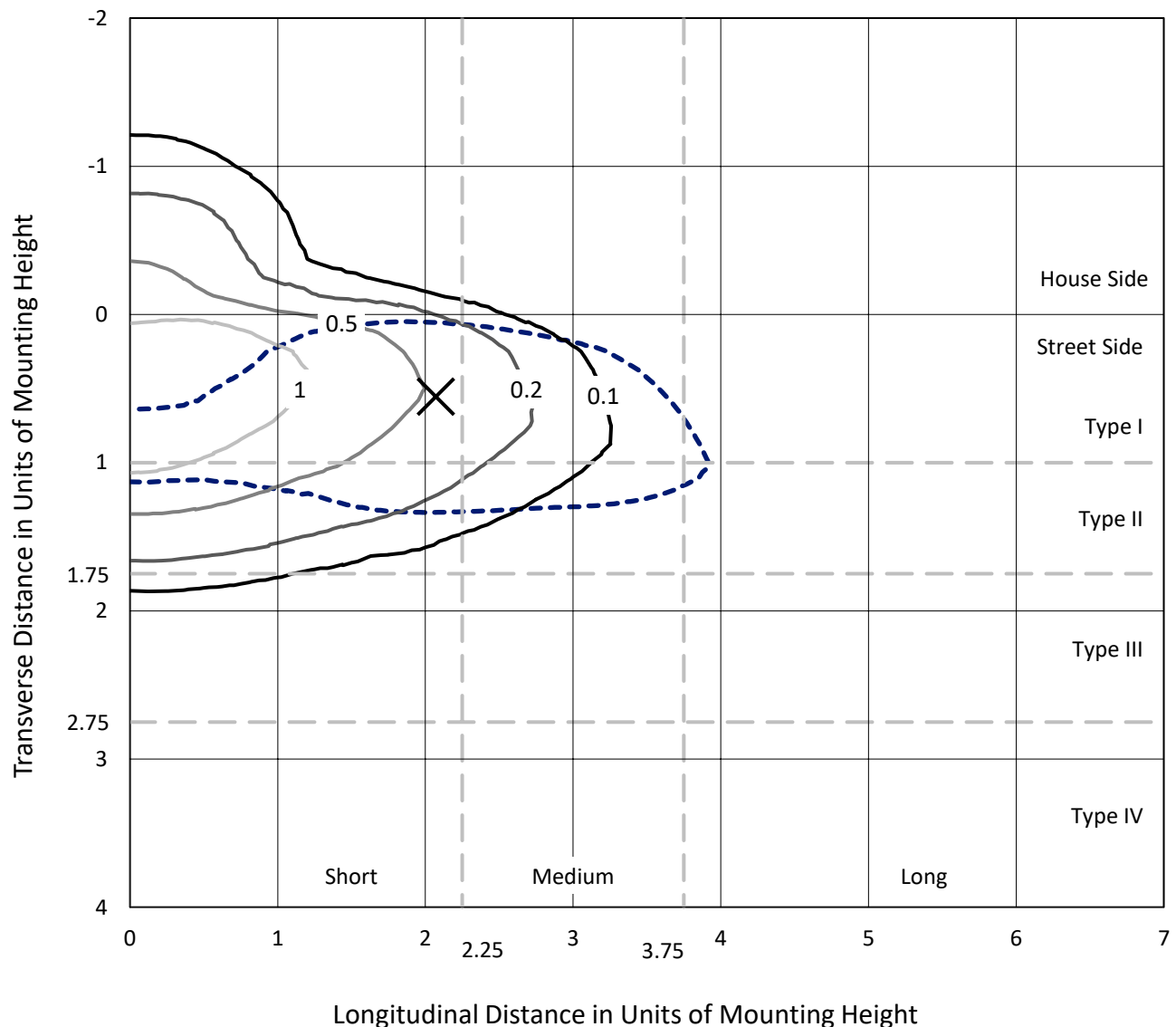


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

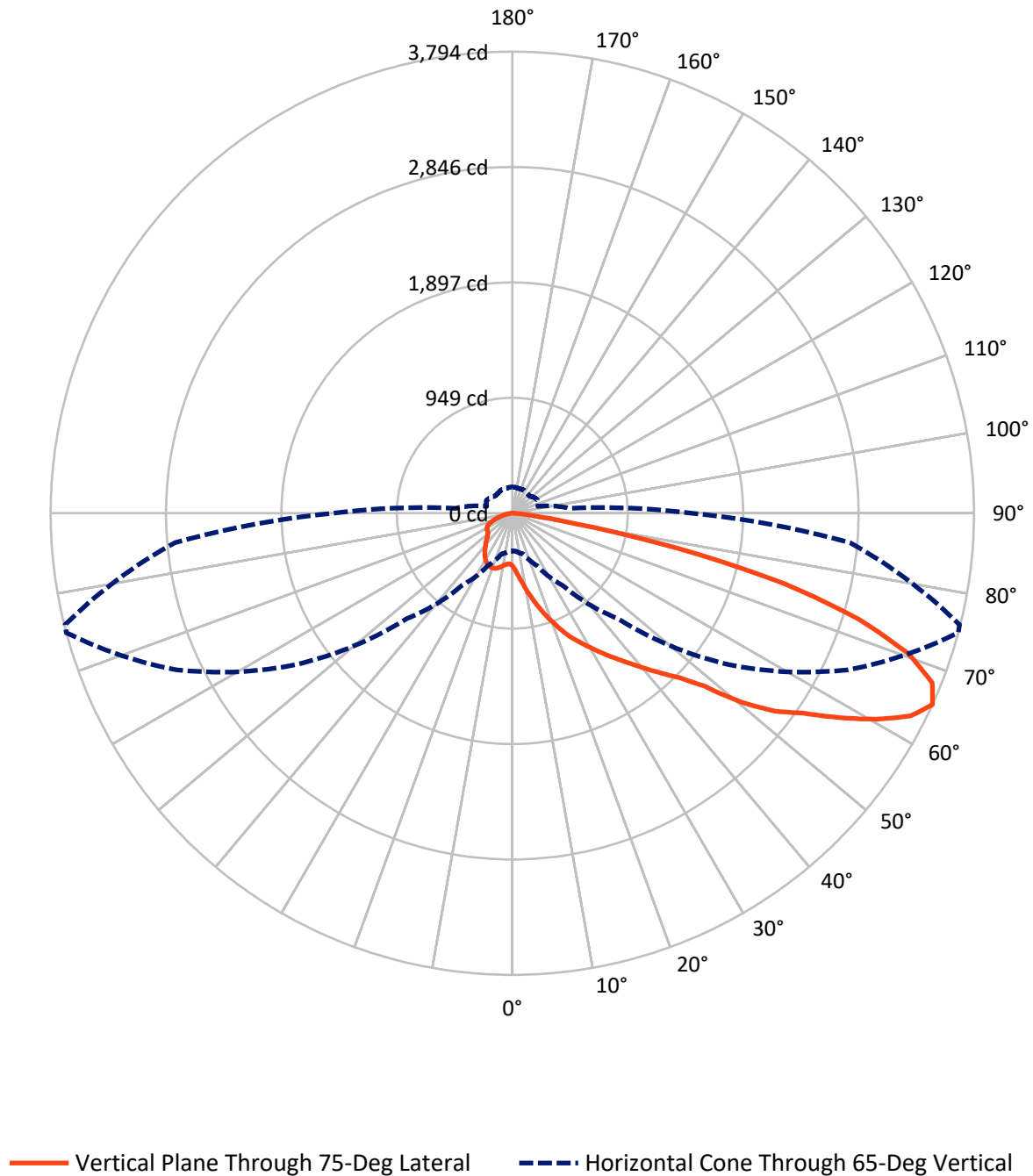


Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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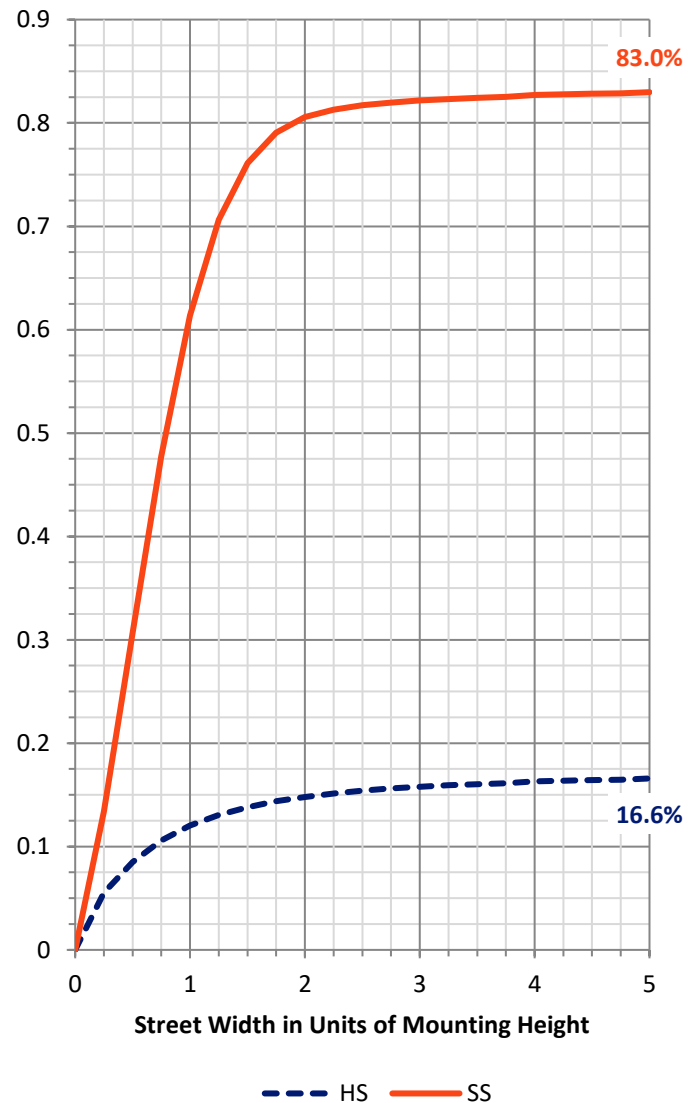
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	783.9	0.0	783.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	3879.1	0.0	3879.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	4663.0	0.0	4663.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	1.1
10°-20°	206.2	4.4
20°-30°	398.3	8.5
30°-40°	646.9	13.9
40°-50°	889.9	19.1
50°-60°	1050.6	22.5
60°-70°	920.5	19.7
70°-80°	439.5	9.4
80°-90°	58.5	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°	4663.0	100.0
0°-180°	4663.0	100.0

Coefficient of Utilization



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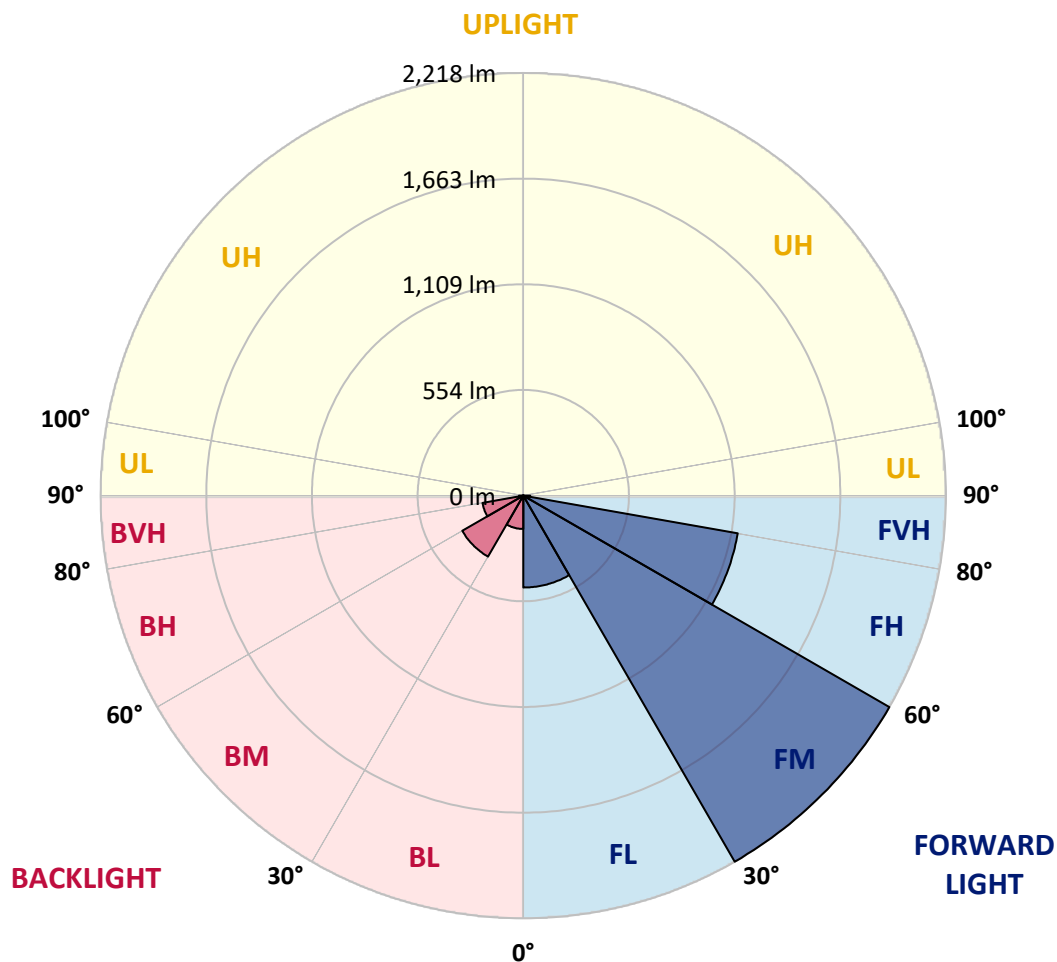
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	482.1	10.3			
FM	(30°-60°)	2217.8	47.6			
FH	(60°-80°)	1142.6	24.5			G1/1800
FVH	(80°-90°)	36.5	0.8			G1/100
BL	(0°-30°)	175.0	3.8	B1/500		
BM	(30°-60°)	369.6	7.9	B1/1000		
BH	(60°-80°)	217.4	4.7	B1/500		G1/500
BVH	(80°-90°)	21.9	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°	433.3	433.3	433.3	433.3	433.3	433.3	433.3	433.3	433.3	433.3	433.3
2.5°	575.6	571.9	567.8	556.7	544.8	531.4	512.2	493.7	469.2	468.4	450.2
5°	735.2	732.7	714.8	704.4	676.8	640.1	609.0	560.7	516.0	510.6	475.2
7.5°	881.9	872.1	865.2	846.5	819.2	772.2	712.0	646.7	571.9	564.8	506.1
10°	992.5	991.4	987.9	971.7	951.2	904.4	837.7	744.1	642.7	628.8	543.5
12.5°	1075.2	1075.9	1075.4	1075.2	1060.5	1020.8	948.4	849.8	714.2	704.4	586.8
15°	1129.5	1137.1	1140.2	1152.8	1154.1	1127.5	1065.3	952.0	794.9	780.3	633.3
17.5°	1165.5	1169.2	1183.4	1204.9	1222.4	1217.6	1162.2	1046.6	877.4	852.8	681.6
20°	1199.9	1206.4	1217.3	1246.6	1277.5	1291.7	1252.7	1143.5	959.1	943.4	735.0
22.5°	1271.4	1280.8	1284.6	1299.5	1325.8	1350.8	1333.1	1236.3	1048.6	1027.4	791.6
25°	1392.6	1402.4	1391.8	1388.3	1396.9	1409.3	1405.5	1323.8	1133.1	1102.7	845.3
27.5°	1550.4	1551.7	1530.9	1511.2	1490.0	1483.6	1472.0	1401.4	1206.4	1181.1	899.1
30°	1719.9	1713.8	1679.4	1643.7	1607.8	1572.4	1539.0	1476.3	1288.1	1259.0	952.0
32.5°	1877.2	1873.9	1835.7	1780.3	1719.6	1686.2	1618.7	1551.9	1375.6	1347.6	1006.4
35°	1995.0	1999.8	1957.9	1897.4	1831.1	1801.5	1716.3	1631.3	1466.2	1435.6	1065.6
37.5°	2078.7	2076.2	2039.0	1986.7	1928.5	1902.7	1830.4	1718.1	1563.6	1534.2	1130.3
40°	2108.6	2107.1	2079.5	2041.3	2004.4	1995.3	1949.8	1811.7	1675.1	1640.7	1208.2
42.5°	2089.6	2092.9	2074.7	2064.3	2057.5	2064.1	2068.4	1934.3	1796.7	1765.1	1292.7
45°	2031.5	2029.7	2027.2	2044.1	2082.5	2125.8	2185.7	2050.2	1929.0	1903.7	1406.0
47.5°	1927.5	1940.1	1946.5	1993.3	2077.2	2179.7	2320.8	2205.5	2121.0	2099.0	1578.7
50°	1782.1	1792.2	1829.6	1912.8	2038.0	2199.9	2452.8	2459.4	2441.2	2400.0	1766.4
52.5°	1555.0	1570.6	1647.8	1800.3	1957.6	2191.5	2532.7	2677.2	2701.2	2670.3	1951.3
55°	1300.8	1322.8	1404.2	1604.3	1846.8	2146.0	2587.9	2803.4	2899.2	2870.6	2129.3
57.5°	1051.9	1075.2	1158.9	1352.6	1653.6	2045.4	2624.0	2944.0	3168.8	3131.7	2350.9
60°	788.4	812.6	884.5	1084.0	1378.4	1848.6	2599.5	3065.9	3438.2	3422.3	2572.7
62.5°	508.6	535.4	597.9	763.1	1059.5	1579.7	2468.2	3133.2	3671.4	3652.2	2734.6
65°	309.8	312.9	347.3	473.7	725.1	1223.1	2168.0	3043.9	3794.3	3788.5	2783.9
67.5°	200.3	205.1	220.8	283.8	434.8	849.6	1733.5	2749.2	3722.5	3720.5	2682.0
70°	169.2	170.7	177.8	191.5	252.7	515.2	1217.3	2279.6	3449.6	3449.6	2436.9
72.5°	151.2	153.3	155.8	160.1	180.3	291.9	726.4	1774.5	2978.4	2998.1	2074.2
75°	137.3	136.8	138.3	139.1	153.8	190.7	375.6	1312.4	2304.1	2264.6	1502.1
77.5°	117.6	118.4	117.6	120.9	135.8	145.2	190.7	880.7	1396.4	1345.3	754.0
80°	96.6	97.9	99.1	101.2	116.1	110.3	114.6	401.4	516.5	505.6	232.9
82.5°	72.6	74.4	76.4	81.2	91.3	72.8	72.3	171.5	186.4	170.7	85.7
85°	29.3	34.7	52.4	57.2	57.4	40.0	44.5	71.6	76.1	74.4	33.6
87.5°	6.8	8.1	16.9	25.5	23.5	14.9	16.4	23.3	26.6	24.5	11.4
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°	433.3	433.3	433.3	433.3	433.3	433.3	433.3	433.3	433.3	433.3	433.3
2.5°	441.9	433.0	417.8	406.2	397.8	390.5	386.0	383.2	382.2	381.9	382.2
5°	456.8	441.1	417.1	401.9	393.5	388.7	386.0	385.7	386.0	386.2	385.4
7.5°	477.3	454.7	423.4	409.2	402.9	399.4	398.1	397.6	397.8	397.6	397.6
10°	504.6	473.7	435.8	421.1	415.8	411.8	409.7	408.5	407.5	406.4	405.9
12.5°	534.7	494.7	449.2	435.0	427.4	421.1	416.6	413.3	411.0	408.7	408.2
15°	568.3	517.0	464.1	444.4	433.5	424.1	416.3	411.0	406.9	403.7	403.4
17.5°	600.4	538.0	474.2	448.7	432.7	419.6	409.2	401.9	396.8	392.5	392.0
20°	634.8	557.9	478.8	445.9	425.2	409.2	395.6	386.7	380.9	376.1	375.3
22.5°	669.5	574.9	478.3	437.0	412.0	393.3	378.9	369.5	362.7	357.9	356.1
25°	702.6	588.5	471.9	422.9	393.8	374.3	359.7	351.1	345.0	339.2	339.2
27.5°	732.5	596.6	460.1	405.7	375.1	354.6	343.0	335.1	329.6	325.8	323.5
30°	761.8	600.4	443.9	383.9	355.4	337.9	328.5	324.0	318.9	314.6	314.1
32.5°	788.1	599.7	423.6	362.7	336.6	324.2	320.4	316.9	311.6	305.5	304.0
35°	813.6	594.6	399.6	339.4	321.0	316.1	317.2	312.1	302.5	294.9	293.6
37.5°	841.5	585.5	373.3	320.4	307.8	312.4	314.9	303.8	288.1	276.2	273.4
40°	873.6	575.1	346.0	301.5	297.4	308.8	308.8	288.3	266.8	259.5	257.5
42.5°	911.3	566.5	323.2	285.5	288.8	300.2	299.0	267.8	259.0	255.2	254.2
45°	971.0	563.5	299.7	271.6	281.8	290.1	279.7	260.8	255.7	252.7	251.7
47.5°	1065.3	567.0	279.0	261.3	273.7	280.0	258.2	256.0	252.4	248.1	247.6
50°	1152.8	563.8	264.3	255.4	266.6	267.8	249.4	250.1	248.1	243.3	242.3
52.5°	1224.4	553.4	254.9	252.4	260.5	246.6	241.0	243.8	243.1	237.0	236.0
55°	1303.0	547.1	250.4	252.4	256.5	228.1	233.2	237.2	236.2	231.9	231.7
57.5°	1398.4	548.3	247.1	253.2	252.4	218.8	225.4	230.2	229.9	228.6	228.6
60°	1496.0	548.8	242.0	252.9	247.6	211.4	217.3	224.1	224.6	225.4	225.4
62.5°	1528.4	526.8	232.2	248.4	237.0	204.4	209.7	219.0	218.5	220.5	220.8
65°	1467.9	465.9	217.5	238.0	223.3	199.3	203.9	212.5	209.7	215.0	216.0
67.5°	1336.2	385.4	194.7	219.3	208.2	194.0	200.1	203.3	198.3	208.7	208.9
70°	1154.8	301.0	165.9	192.7	191.0	188.4	197.0	192.0	184.9	197.5	195.0
72.5°	965.6	229.9	132.5	157.6	167.9	180.1	191.7	177.3	167.4	171.2	166.7
75°	725.4	170.0	106.5	123.4	139.9	168.2	186.9	159.6	144.4	140.9	139.9
77.5°	369.8	111.0	79.7	92.3	105.0	152.0	180.3	138.9	119.6	114.1	111.5
80°	132.0	69.0	56.1	63.7	70.8	130.8	157.6	114.8	92.8	91.8	92.8
82.5°	61.2	44.5	37.7	41.7	42.0	87.3	120.1	85.7	70.6	107.2	90.5
85°	26.3	22.3	21.2	20.7	19.2	38.9	67.5	46.0	71.8	32.1	29.6
87.5°	7.8	8.9	7.8	5.8	4.3	4.3	6.8	2.5	1.8	1.3	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

(END OF REPORT)