

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: P450620

Luminaire Tested: **GALN-SA1B-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
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-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4682 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - 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

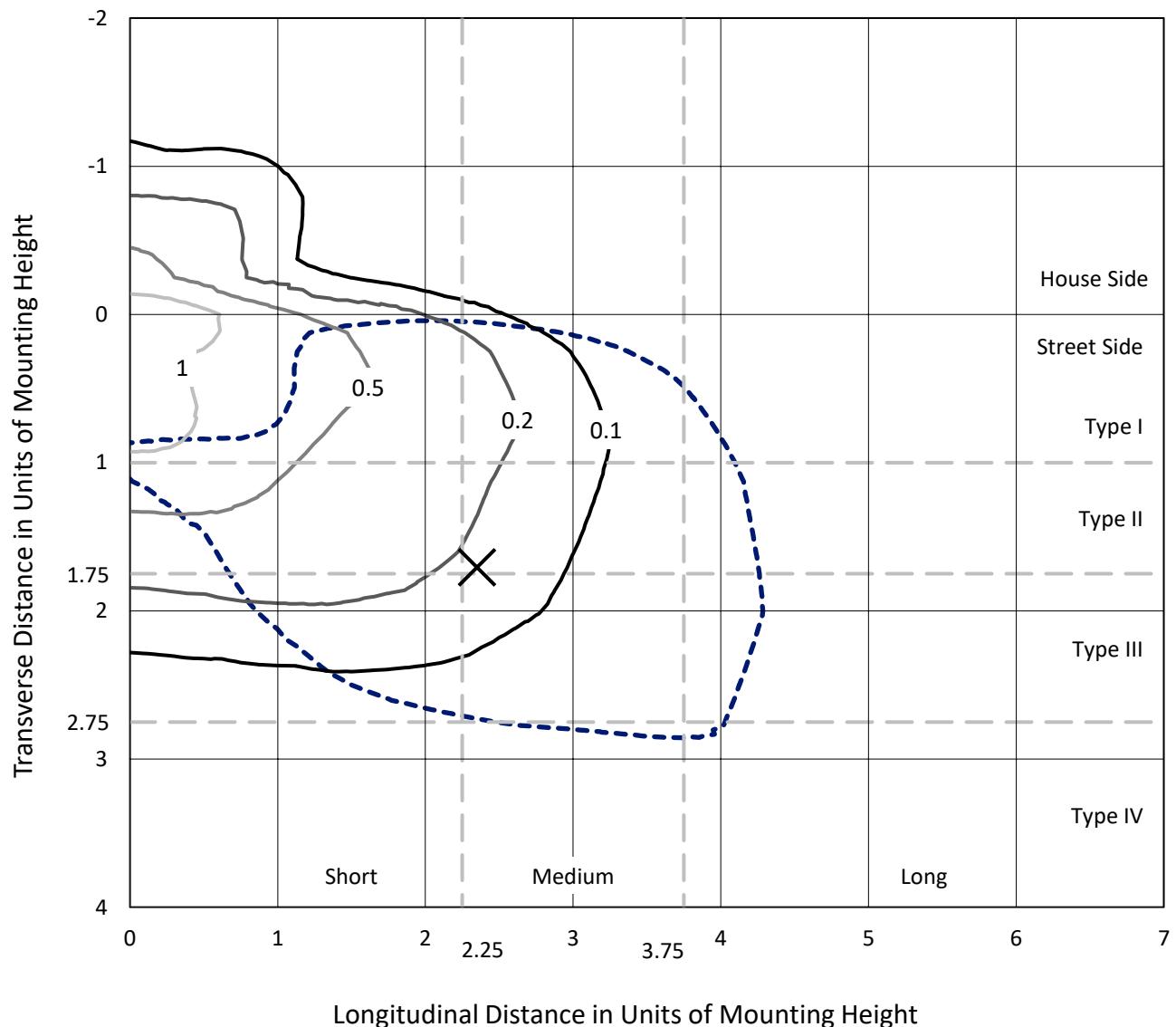


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

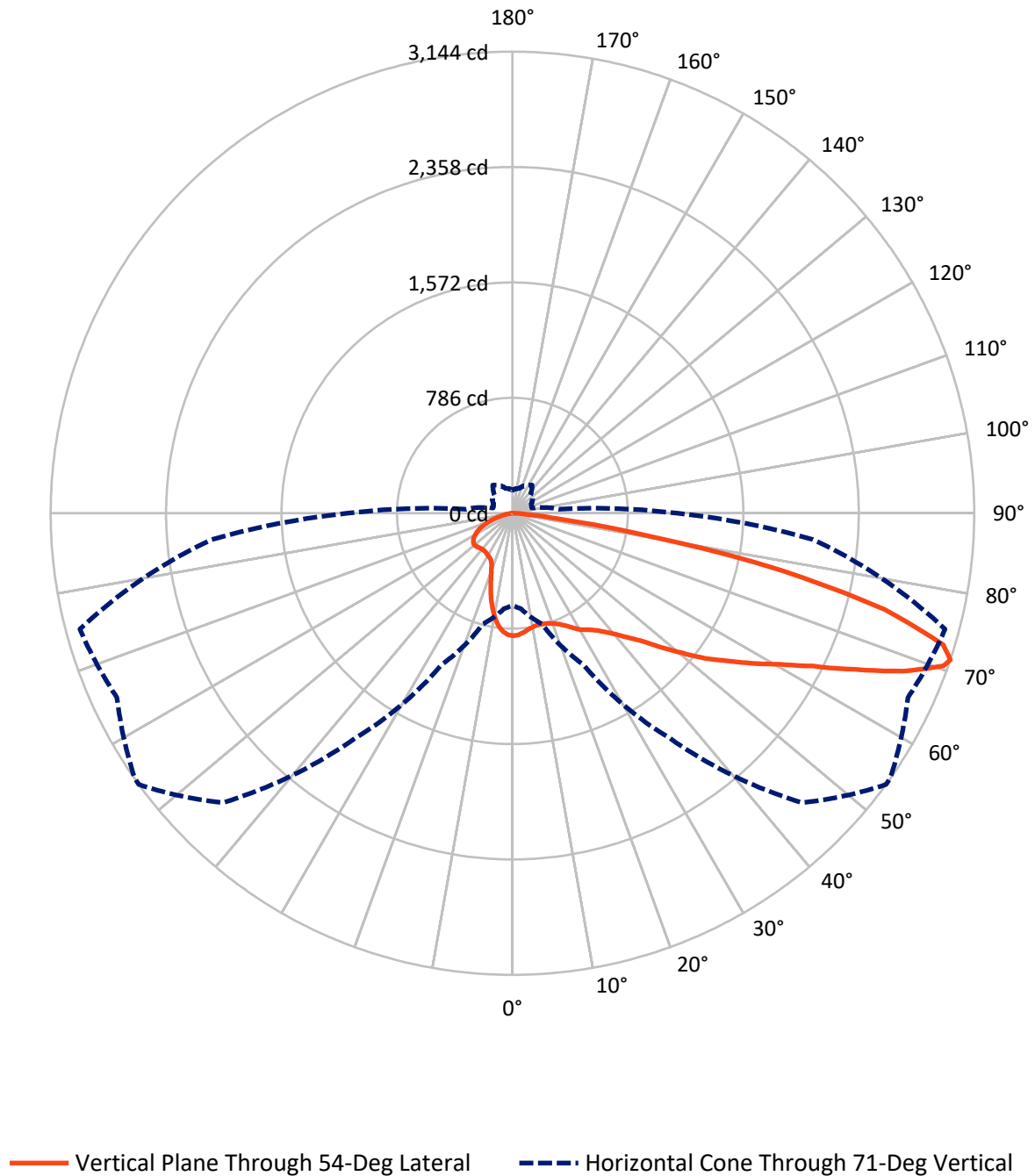


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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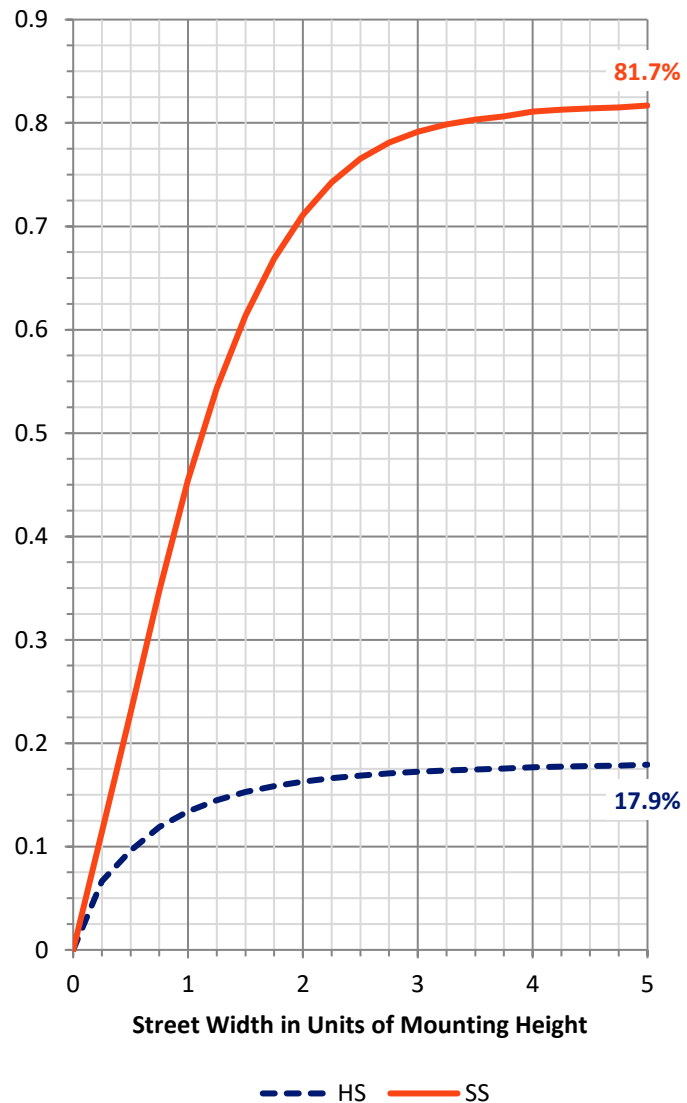
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	845.3	0.0	845.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	3836.7	0.0	3836.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	4682.0	0.0	4682.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	1.6
10°-20°	196.6	4.2
20°-30°	327.3	7.0
30°-40°	483.9	10.3
40°-50°	681.7	14.6
50°-60°	912.8	19.5
60°-70°	1150.5	24.6
70°-80°	785.8	16.8
80°-90°	69.1	1.5
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°	4682.0	100.0
0°-180°	4682.0	100.0

Coefficient of Utilization



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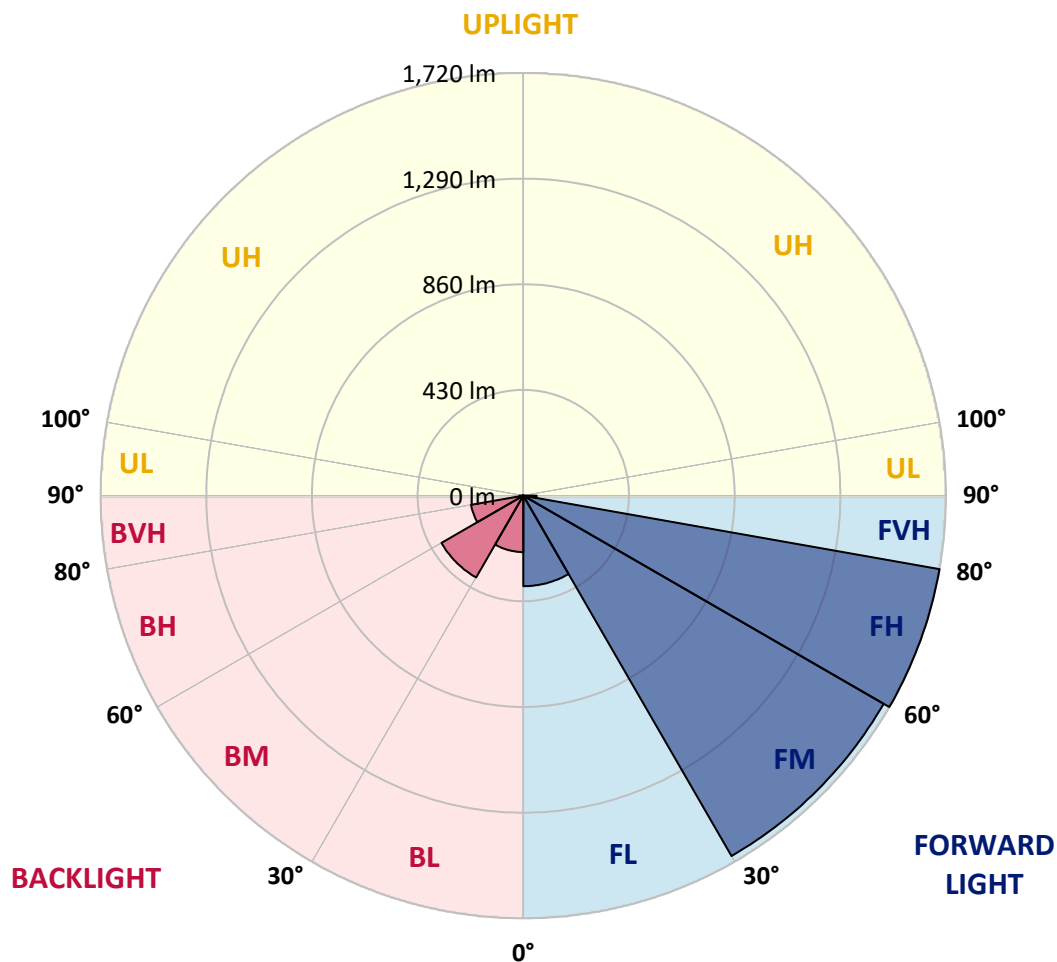
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	368.5	7.9			
FM	(30°-60°)	1693.8	36.2			
FH	(60°-80°)	1720.3	36.7			G1/1800
FVH	(80°-90°)	54.0	1.2			G1/100
BL	(0°-30°)	229.7	4.9	B1/500		
BM	(30°-60°)	384.6	8.2	B1/1000		
BH	(60°-80°)	215.9	4.6	B1/500		G1/500
BVH	(80°-90°)	15.1	0.3			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3
2.5°	807.0	810.8	811.8	814.3	819.7	824.0	828.3	827.8	833.8	836.3	838.6
5°	771.1	772.1	775.9	781.0	790.3	802.2	813.8	814.1	829.0	840.9	846.7
7.5°	744.8	748.1	750.6	755.9	765.8	778.7	797.1	798.7	825.2	848.7	861.1
10°	727.6	731.4	734.2	740.8	750.6	765.0	785.0	787.8	822.4	861.1	882.9
12.5°	711.9	715.7	718.2	726.8	739.7	757.4	780.0	783.2	823.5	875.5	906.7
15°	721.5	724.6	723.6	726.1	734.7	754.9	782.0	785.3	827.2	889.5	930.2
17.5°	764.3	766.8	758.5	748.8	744.8	759.7	788.3	791.8	834.8	903.9	954.2
20°	827.2	834.1	815.9	794.4	774.9	776.9	801.4	805.2	845.5	918.3	978.7
22.5°	909.2	914.2	892.0	856.6	820.7	802.2	821.2	823.5	861.4	937.0	1005.5
25°	1005.5	1008.6	977.7	932.2	880.4	845.5	848.2	852.3	887.7	958.2	1029.3
27.5°	1099.1	1108.7	1073.1	1017.4	949.1	891.0	885.4	887.9	916.3	970.1	1045.8
30°	1210.1	1209.4	1171.7	1107.2	1019.7	940.5	920.6	920.1	931.7	976.0	1057.6
32.5°	1298.7	1309.0	1272.1	1201.8	1100.4	991.9	944.8	943.8	943.6	986.1	1075.3
35°	1399.3	1400.8	1366.9	1296.1	1187.6	1056.4	978.7	973.7	967.9	1007.8	1099.4
37.5°	1489.3	1496.4	1465.3	1385.9	1273.4	1123.4	1025.3	1022.0	1004.3	1045.5	1137.8
40°	1559.7	1565.0	1546.2	1470.6	1357.8	1195.7	1084.4	1078.4	1056.9	1107.2	1189.1
42.5°	1582.7	1593.5	1600.9	1563.7	1455.0	1281.5	1157.3	1149.7	1133.3	1200.8	1248.3
45°	1584.4	1601.6	1640.3	1642.1	1552.6	1384.1	1242.3	1236.9	1235.7	1320.7	1331.5
47.5°	1571.0	1588.5	1653.5	1688.6	1639.6	1487.8	1364.9	1356.6	1357.3	1468.9	1424.9
50°	1538.7	1559.4	1638.3	1718.5	1707.6	1595.6	1494.4	1491.6	1507.3	1638.1	1521.7
52.5°	1477.7	1502.7	1622.6	1737.2	1758.2	1688.4	1641.6	1633.8	1673.5	1821.7	1627.7
55°	1309.0	1346.7	1565.2	1747.6	1806.2	1777.1	1774.1	1788.3	1840.9	2022.0	1744.3
57.5°	1221.0	1249.3	1440.5	1749.3	1866.9	1880.3	1928.9	1932.4	2024.5	2234.6	1876.0
60°	1173.0	1198.0	1372.3	1737.7	1951.7	2008.0	2087.2	2099.9	2203.8	2465.0	2012.6
62.5°	1131.0	1152.5	1331.3	1697.5	2047.2	2197.5	2292.3	2298.4	2407.4	2719.5	2147.4
65°	1032.1	1056.6	1248.8	1657.3	2129.7	2434.2	2564.4	2557.4	2624.1	2939.0	2231.9
67.5°	898.8	929.9	1094.8	1518.4	2170.4	2692.9	2871.0	2862.1	2838.1	3082.9	2256.1
70°	728.6	745.3	897.8	1278.4	2007.8	2828.7	3113.0	3103.6	2970.6	3101.9	2141.3
71°	626.9	653.0	781.7	1135.5	1872.5	2787.2	3144.1	3141.6	2970.8	3049.5	2054.8
72.5°	489.4	505.3	619.1	879.8	1591.5	2551.5	3067.2	3076.8	2906.4	2904.1	1876.5
75°	309.6	316.6	388.5	517.9	873.3	1807.0	2618.3	2644.4	2580.6	2377.0	1395.5
77.5°	179.8	188.9	232.7	305.3	377.3	980.8	1873.5	1901.8	1793.1	1308.8	571.3
80°	104.7	114.8	153.3	177.3	173.2	363.9	953.9	1002.3	776.4	330.5	160.3
82.5°	58.2	65.0	107.7	108.0	92.3	118.9	300.2	314.1	221.5	133.3	65.5
85°	42.2	47.8	69.5	63.0	44.3	51.1	104.4	109.5	89.5	56.1	21.2
87.5°	14.9	21.2	38.2	30.3	12.1	10.6	30.1	24.5	22.8	15.7	4.8
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°	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3
2.5°	839.9	840.4	837.9	833.3	828.8	822.9	816.4	811.3	809.0	808.8	808.5
5°	849.0	850.3	840.6	826.5	810.8	791.6	775.1	756.4	751.6	744.0	746.3
7.5°	863.7	862.9	843.9	813.8	777.2	736.5	702.1	682.1	661.3	655.5	655.8
10°	884.7	879.8	843.9	788.0	726.8	666.4	618.3	588.0	571.6	557.9	552.8
12.5°	906.9	894.8	835.8	751.9	662.1	588.0	536.4	495.4	484.8	473.7	473.9
15°	928.2	907.9	819.9	701.0	592.3	504.3	454.2	429.7	426.4	427.7	427.4
17.5°	947.4	917.3	795.6	644.4	510.9	432.5	405.9	407.7	416.5	422.9	423.6
20°	966.8	922.8	759.5	568.5	434.0	389.0	390.0	403.9	417.3	425.9	427.2
22.5°	985.3	925.4	717.0	495.2	378.3	370.5	385.4	400.3	413.5	421.8	423.1
25°	997.4	919.6	656.8	418.6	351.0	363.9	379.6	392.3	403.4	412.0	414.0
27.5°	1000.7	900.8	582.2	356.6	338.4	357.6	372.0	381.4	390.0	398.1	399.6
30°	999.0	873.3	500.2	320.2	331.0	350.3	361.4	368.2	378.6	384.9	386.2
32.5°	996.2	841.2	414.8	300.7	325.0	343.4	350.0	356.1	355.8	353.3	355.1
35°	997.2	802.7	345.5	289.1	319.7	338.4	343.9	336.4	314.6	313.6	312.6
37.5°	1002.5	764.8	295.1	281.0	316.9	337.6	340.7	305.8	286.5	277.7	275.4
40°	1016.2	720.5	262.0	274.9	316.6	343.4	325.7	290.3	253.4	236.2	234.9
42.5°	1034.4	677.0	241.8	271.1	319.7	352.3	319.7	268.6	228.4	218.3	216.7
45°	1061.4	627.2	230.6	269.3	324.2	355.6	317.6	252.6	218.3	210.2	210.2
47.5°	1092.0	579.7	224.6	268.1	330.0	353.3	299.7	247.6	213.5	214.5	219.3
50°	1122.4	538.4	220.0	265.3	335.1	352.0	292.4	247.3	214.7	227.6	236.2
52.5°	1157.5	509.3	214.5	260.7	335.1	343.9	290.1	252.4	218.3	222.0	225.8
55°	1200.0	500.2	207.4	250.9	329.0	323.7	288.8	259.7	220.8	211.9	213.5
57.5°	1256.2	514.9	200.6	238.5	315.1	302.7	288.3	261.8	215.0	207.6	206.1
60°	1321.4	544.0	198.5	225.8	296.1	284.8	285.3	255.9	206.9	199.3	200.6
62.5°	1367.2	561.4	197.3	216.2	275.4	265.0	277.9	248.9	203.3	196.8	198.0
65°	1367.2	540.2	185.6	201.6	248.6	241.3	269.1	240.0	198.8	191.2	189.9
67.5°	1315.3	478.2	167.9	179.6	219.0	214.2	256.7	229.4	192.0	186.1	183.1
70°	1180.3	362.7	145.7	153.8	181.6	185.9	240.8	215.0	180.6	173.5	168.9
71°	1120.9	315.9	136.3	140.6	167.2	173.5	233.2	208.9	175.5	165.4	157.3
72.5°	1006.3	266.1	122.2	123.9	142.9	154.3	217.2	197.3	165.9	151.5	142.4
75°	764.5	194.2	98.4	97.4	105.7	122.4	183.9	175.8	145.4	125.9	120.6
77.5°	330.3	105.7	73.6	74.4	71.8	92.8	144.7	151.0	124.7	102.4	97.6
80°	100.1	60.9	50.3	51.3	48.1	62.2	101.9	118.4	100.1	79.7	73.1
82.5°	51.3	36.4	34.4	33.9	30.6	35.2	61.7	80.9	71.6	49.8	44.0
85°	22.3	19.5	16.9	16.4	14.4	12.6	22.0	40.5	37.9	27.8	26.6
87.5°	5.6	5.1	3.3	3.0	1.8	0.3	0.0	0.0	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)