

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: P652289

Luminaire Tested: **GALN-SA3B-840-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-840-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10639.5 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

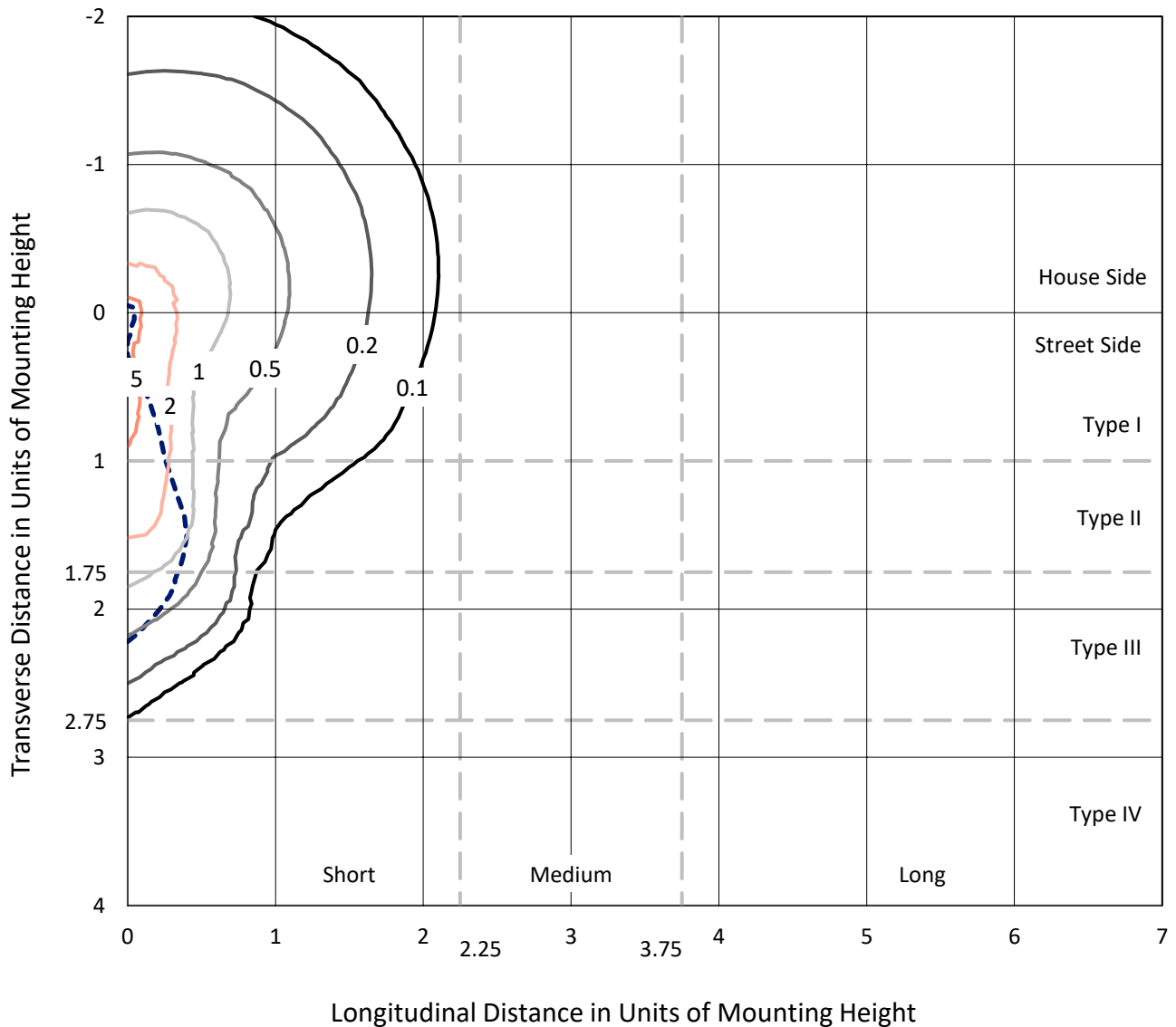
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

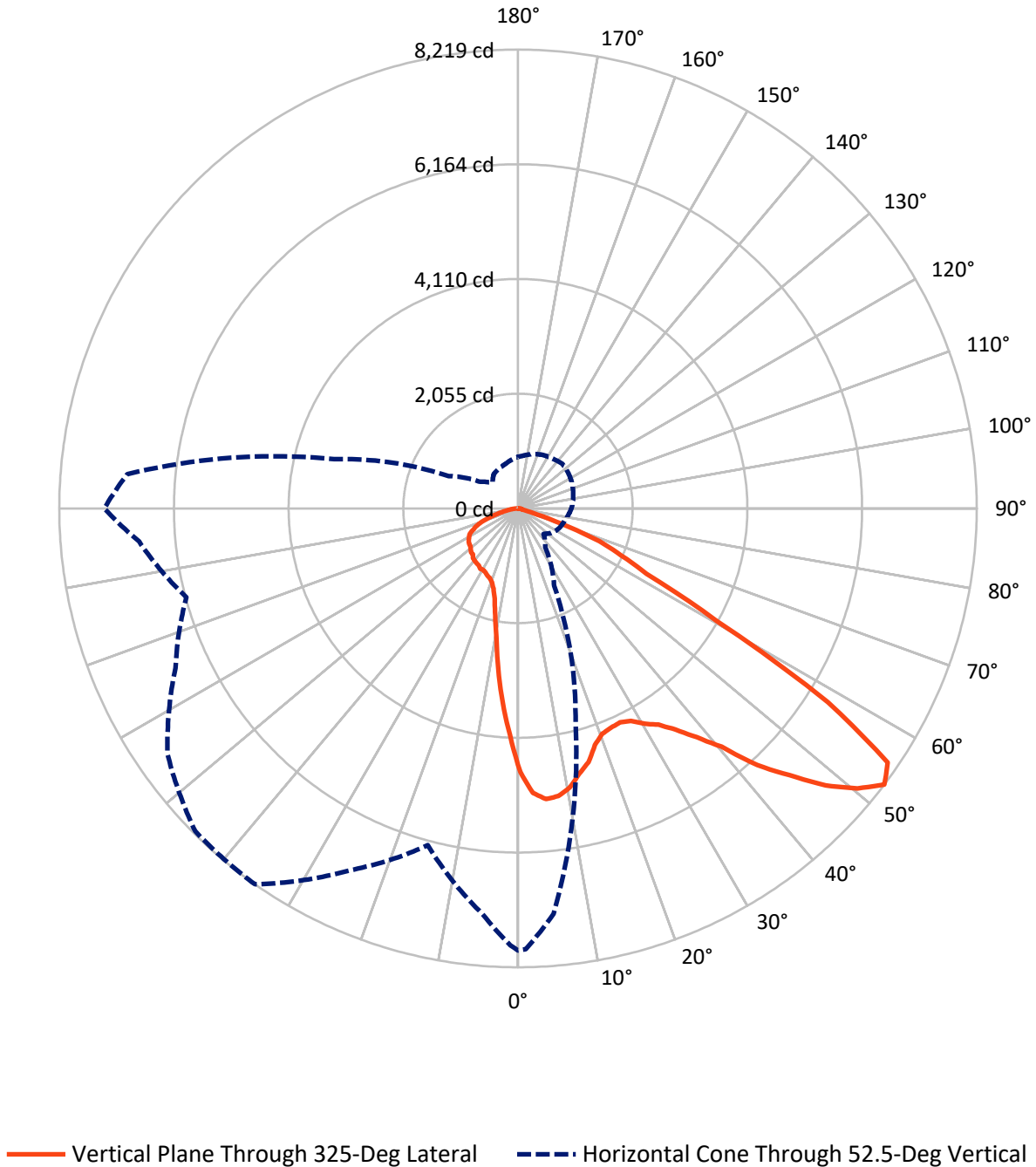
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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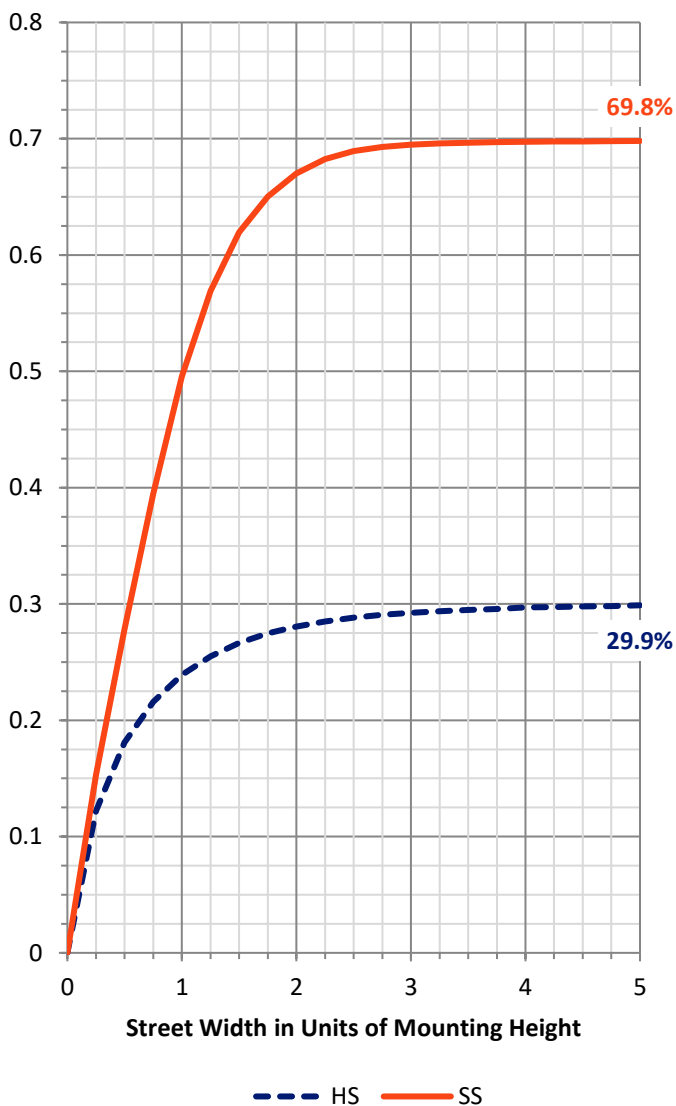
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3207.4	0.0	3207.4
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	7432.1	0.0	7432.1
	% Fixture	69.9	0.0	69.9
Total	Lumens	10639.5	0.0	10639.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.2	3.4
10°-20°	780.9	7.3
20°-30°	1179.9	11.1
30°-40°	1705.1	16.0
40°-50°	2269.1	21.3
50°-60°	2538.1	23.9
60°-70°	1430.4	13.4
70°-80°	318.9	3.0
80°-90°	56.8	0.5
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°	10639.5	100.0
0°-180°	10639.5	100.0

Coefficient of Utilization

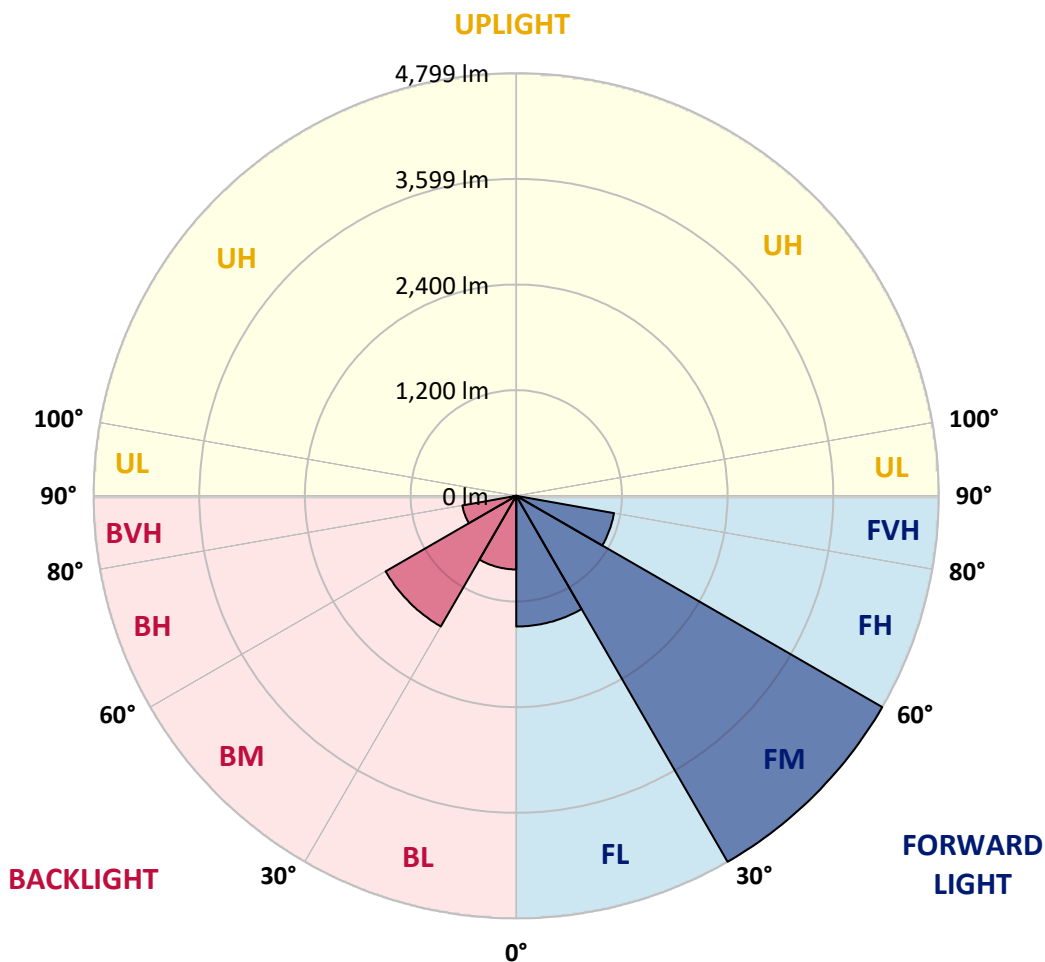


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1484.7	14.0			
FM (30°-60°)	4799.2	45.1			
FH (60°-80°)	1127.6	10.6			G1/1800
FVH (80°-90°)	20.6	0.2			G1/100
BL (0°-30°)	836.4	7.9	B2/1000		
BM (30°-60°)	1713.0	16.1	B2/2500		
BH (60°-80°)	621.7	5.8	B2/1000		G2/1000
BVH (80°-90°)	36.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4721.9	4721.9	4721.9	4721.9	4721.9	4721.9	4721.9	4721.9	4721.9	4721.9	4721.9
2.5°	4800.5	4877.6	4794.4	4646.3	4541.5	4445.9	4345.6	4325.5	4194.5	4171.4	4075.7
5°	4527.6	4510.6	4408.9	4214.5	4000.2	3805.9	3662.5	3523.7	3429.6	3320.1	3312.4
7.5°	4196.0	4097.4	4038.7	3744.2	3479.0	3173.6	3042.6	2831.3	2765.0	2666.3	2615.3
10°	3900.0	3827.5	3690.2	3395.7	3025.6	2823.6	2683.2	2569.1	2492.1	2390.2	2262.2
12.5°	3753.5	3724.1	3570.0	3113.5	2839.0	2623.1	2524.4	2413.3	2282.3	2118.8	2055.6
15°	3779.6	3681.0	3563.7	3059.5	2680.2	2472.0	2314.7	2175.9	2007.8	1852.1	1761.1
17.5°	3975.5	3900.0	3665.6	3093.5	2620.0	2319.3	2034.0	1828.9	1677.8	1537.4	1474.3
20°	4361.0	4251.5	3987.9	3136.6	2490.5	2106.5	1779.6	1526.7	1364.8	1290.8	1269.2
22.5°	4788.1	4723.4	4302.4	3233.7	2387.2	1909.1	1509.7	1256.8	1196.7	1176.6	1216.7
25°	5307.9	5139.8	4791.3	3392.6	2306.9	1741.0	1281.5	1141.2	1110.3	1130.4	1176.6
27.5°	5702.7	5657.9	5133.6	3542.2	2197.4	1539.0	1153.5	1060.9	1070.2	1090.3	1133.4
30°	6171.4	5944.8	5465.2	3645.5	2098.8	1400.2	1064.0	1039.4	1048.6	1082.5	1104.1
32.5°	6453.7	6368.8	5673.3	3801.2	1984.7	1279.9	994.7	971.5	985.4	1036.3	1087.2
35°	6812.9	6644.8	5930.9	3841.4	1904.4	1232.1	945.3	928.3	960.8	996.2	1053.3
37.5°	7232.3	7116.7	6287.1	3813.6	1861.3	1182.8	903.7	895.9	919.0	968.4	1034.8
40°	7480.7	7445.2	6473.7	3830.6	1793.4	1139.6	855.9	865.1	912.9	951.5	1016.3
42.5°	7719.7	7488.3	6749.7	3824.4	1750.3	1081.0	860.5	849.7	886.7	931.4	993.1
45°	7772.1	7542.3	6814.5	3781.2	1697.8	1023.9	825.0	829.6	874.4	929.9	970.0
47.5°	7738.2	7568.6	6934.8	3768.9	1648.5	983.9	772.6	828.1	854.3	899.0	956.1
50°	7715.1	7705.8	7036.6	3827.5	1582.2	920.6	709.4	808.0	834.3	879.0	940.7
52.5°	7918.6	7898.6	7291.0	3981.6	1529.8	852.8	644.6	757.2	820.4	863.5	923.7
55°	8042.0	7954.1	7727.4	4171.4	1441.8	763.3	599.9	693.9	786.5	825.0	886.7
57.5°	7233.9	7173.8	6990.3	3893.7	1293.8	646.1	544.4	629.2	740.2	800.4	863.5
60°	6018.8	5924.7	5454.4	3309.3	954.5	502.7	510.4	578.3	727.9	751.0	825.0
62.5°	5674.9	5442.0	4802.0	2663.2	732.5	431.8	458.0	532.0	663.1	701.6	775.7
65°	4502.9	4330.1	3435.7	1922.9	490.4	374.7	417.9	479.6	572.1	647.7	715.5
67.5°	2818.9	2653.9	1833.5	909.8	342.4	320.8	373.2	438.0	513.5	581.4	656.9
70°	1472.7	1292.3	846.6	328.5	235.9	262.1	311.5	373.2	447.2	502.7	561.3
72.5°	549.0	445.6	276.0	141.9	163.5	200.5	252.9	297.6	350.0	417.9	450.3
75°	84.8	72.5	70.9	86.4	111.0	145.0	180.4	225.1	271.4	314.6	336.1
77.5°	40.1	38.5	43.1	57.0	74.0	103.4	131.1	174.3	211.3	239.0	251.4
80°	26.2	24.6	27.8	38.5	55.5	77.1	104.9	134.1	168.1	191.2	188.1
82.5°	15.4	17.0	17.0	26.2	38.5	55.5	75.5	101.8	124.9	145.0	132.6
85°	9.3	7.7	7.7	15.4	26.2	44.7	63.2	43.1	44.7	44.7	50.9
87.5°	3.1	3.1	3.1	1.5	3.1	3.1	4.6	7.7	9.3	10.8	13.9
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°	4721.9	4721.9	4721.9	4721.9	4721.9	4721.9	4721.9	4721.9	4721.9	4721.9	4721.9
2.5°	4072.6	4120.5	4103.5	4043.4	4089.6	4097.4	4066.5	4172.9	4193.0	4160.5	4169.8
5°	3301.6	3314.0	3341.7	3400.3	3442.0	3491.3	3491.3	3494.4	3452.7	3557.6	3526.7
7.5°	2572.2	2579.9	2612.3	2737.2	2772.7	2866.7	2906.8	2879.1	2795.8	2760.3	2789.6
10°	2220.6	2175.9	2165.1	2180.5	2260.7	2300.8	2334.7	2325.4	2311.6	2283.8	2253.0
12.5°	1986.2	1953.8	1927.6	1890.6	1895.2	1933.8	1960.0	1938.4	1944.6	1950.7	1960.0
15°	1731.8	1708.7	1694.8	1639.3	1633.1	1659.3	1668.5	1680.9	1704.0	1705.5	1694.8
17.5°	1461.9	1441.8	1472.7	1503.5	1481.9	1483.5	1500.4	1511.3	1505.1	1477.3	1463.4
20°	1276.9	1298.4	1329.3	1358.6	1381.7	1395.6	1401.8	1384.8	1364.8	1307.7	1306.2
22.5°	1222.9	1250.7	1276.9	1321.5	1343.2	1378.7	1346.3	1307.7	1279.9	1252.2	1219.8
25°	1182.8	1205.9	1258.3	1275.3	1316.9	1346.3	1323.1	1284.5	1236.8	1196.7	1172.0
27.5°	1153.5	1179.7	1213.6	1259.9	1292.3	1309.3	1286.1	1270.7	1221.3	1173.5	1138.0
30°	1135.0	1162.8	1224.4	1262.9	1290.8	1304.6	1264.5	1246.0	1210.5	1170.4	1139.6
32.5°	1122.7	1147.3	1199.8	1249.1	1267.6	1267.6	1273.8	1252.2	1202.8	1135.0	1108.8
35°	1082.5	1116.5	1159.7	1216.7	1250.7	1270.7	1239.8	1215.2	1182.8	1113.4	1065.5
37.5°	1059.4	1082.5	1138.0	1192.0	1221.3	1242.9	1230.6	1187.4	1144.3	1087.2	1048.6
40°	1034.8	1071.8	1121.1	1172.0	1204.4	1225.9	1216.7	1165.8	1113.4	1059.4	1033.2
42.5°	1017.8	1042.4	1093.3	1150.4	1188.9	1230.6	1202.8	1139.6	1102.6	1028.5	999.3
45°	1003.9	1044.0	1097.9	1121.1	1161.2	1204.4	1155.0	1116.5	1073.3	1019.3	994.7
47.5°	986.9	1023.9	1059.4	1121.1	1139.6	1159.7	1150.4	1088.7	1051.7	993.1	976.1
50°	980.8	994.7	1059.4	1093.3	1119.5	1139.6	1114.9	1068.7	1033.2	973.0	936.0
52.5°	956.1	982.3	1023.9	1068.7	1101.0	1125.8	1085.6	1056.3	1008.5	945.3	922.2
55°	925.3	940.7	1014.7	1060.9	1077.9	1094.9	1079.4	1031.7	982.3	917.5	894.4
57.5°	885.2	920.6	980.8	1045.5	1067.1	1076.4	1051.7	1013.2	951.5	894.4	857.4
60°	843.5	880.5	946.9	999.3	1020.9	1054.8	1017.8	994.7	923.7	860.5	820.4
62.5°	801.9	843.5	892.9	959.2	977.7	991.5	982.3	949.9	892.9	821.9	772.6
65°	752.5	783.4	845.0	879.0	891.3	923.7	891.3	879.0	828.1	760.3	718.6
67.5°	678.5	704.8	758.7	791.1	800.4	814.3	812.7	798.8	741.8	695.5	658.5
70°	593.7	616.9	650.8	689.3	693.9	710.9	695.5	692.4	655.4	592.1	572.1
72.5°	476.5	498.1	542.8	559.8	561.3	567.5	559.8	549.0	539.8	473.4	453.4
75°	365.5	377.8	399.4	414.8	414.8	422.5	417.9	407.1	382.4	340.8	320.8
77.5°	254.4	266.8	294.5	303.8	302.3	305.4	291.5	280.6	243.6	222.0	205.1
80°	185.0	192.8	206.6	212.8	214.4	219.0	202.0	192.8	171.1	146.5	138.8
82.5°	134.1	138.8	140.4	148.0	148.0	140.4	135.7	126.5	111.0	95.6	89.5
85°	55.5	57.0	58.6	67.9	69.4	83.3	77.1	72.5	63.2	54.0	49.4
87.5°	13.9	15.4	20.0	17.0	20.0	20.0	21.6	24.6	24.6	20.0	20.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4721.9	4721.9	4721.9	4721.9	4721.9	4721.9	4721.9	4721.9	4721.9	4721.9	4721.9
2.5°	4205.3	4217.6	4374.9	4395.0	4472.0	4550.7	4709.5	4823.6	4916.1	4976.3	4993.3
5°	3559.1	3637.7	3710.2	3827.5	3933.9	4085.0	4259.2	4475.1	4746.5	4885.4	4940.9
7.5°	2786.6	2879.1	2984.0	3098.1	3253.8	3525.2	3758.1	4007.9	4354.9	4498.3	4715.7
10°	2274.6	2377.9	2516.7	2604.6	2792.7	3051.8	3323.2	3611.6	3943.1	4149.7	4401.1
12.5°	2010.9	2095.7	2223.7	2408.7	2549.1	2717.2	2919.2	3283.1	3758.1	3953.9	4126.6
15°	1719.4	1813.5	1961.5	2166.7	2334.7	2535.2	2761.8	3158.2	3664.0	3966.2	4112.7
17.5°	1478.9	1546.7	1702.4	1879.8	2072.6	2291.6	2616.9	3152.1	3762.7	4149.7	4388.8
20°	1312.3	1321.5	1406.4	1557.5	1819.7	2104.9	2527.5	3121.2	4078.8	4465.9	4768.1
22.5°	1207.4	1198.2	1199.8	1327.8	1511.3	1921.4	2387.2	3226.1	4438.1	4968.6	5172.2
25°	1155.0	1130.4	1114.9	1142.7	1309.3	1704.0	2280.7	3364.8	4825.2	5383.4	5633.3
27.5°	1127.3	1084.0	1053.3	1057.9	1179.7	1594.5	2214.4	3425.0	5209.2	5961.7	6049.6
30°	1116.5	1062.5	1017.8	1002.4	1082.5	1441.8	2072.6	3528.3	5553.0	6279.4	6354.9
32.5°	1077.9	1011.6	968.4	954.5	986.9	1307.7	1970.8	3602.3	5856.8	6624.8	6598.6
35°	1033.2	977.7	923.7	897.5	920.6	1221.3	1889.1	3566.8	6214.7	6893.2	6879.2
37.5°	1028.5	956.1	911.4	868.2	866.7	1114.9	1778.0	3600.7	6442.8	7374.2	7184.6
40°	988.5	942.3	883.6	848.1	828.1	1060.9	1670.1	3520.6	6777.5	7568.6	7382.0
42.5°	990.0	920.6	869.8	828.1	808.0	982.3	1596.0	3499.0	6894.7	7884.7	7474.5
45°	965.4	897.5	854.3	805.0	794.2	922.2	1525.2	3398.7	7101.3	7900.1	7358.8
47.5°	940.7	880.5	834.3	775.7	751.0	900.5	1469.6	3315.5	6993.3	7755.2	7198.5
50°	923.7	854.3	811.1	769.5	700.1	863.5	1397.2	3295.5	6842.2	7559.3	6900.8
52.5°	894.4	832.8	788.0	755.6	644.6	829.6	1369.4	3412.6	7027.3	7412.8	6814.5
55°	866.7	803.4	746.4	683.1	598.4	740.2	1292.3	3522.1	7297.2	7750.6	7206.2
57.5°	837.4	777.3	715.5	640.0	553.6	647.7	1212.0	3542.2	6791.3	7163.0	6840.7
60°	798.8	721.7	675.4	576.8	505.8	536.6	960.8	3122.7	5267.8	5981.8	5992.5
62.5°	755.6	672.4	632.3	516.6	456.5	462.6	783.4	2624.6	4273.1	4951.6	5246.2
65°	698.5	618.4	570.5	478.0	421.0	400.9	573.6	1922.9	3246.1	4017.1	4351.8
67.5°	624.5	549.0	488.9	416.4	376.3	343.9	391.7	1082.5	1916.8	2697.1	2798.8
70°	545.9	481.1	417.9	357.8	313.0	289.9	286.9	479.6	916.0	1451.1	1651.6
72.5°	430.3	384.0	333.1	288.4	259.1	225.1	205.1	198.9	310.0	590.6	815.8
75°	308.4	269.9	240.5	211.3	189.6	171.1	155.8	141.9	129.5	148.0	203.5
77.5°	194.3	180.4	157.3	149.6	137.3	132.6	126.5	118.7	109.5	103.4	103.4
80°	131.1	121.9	114.1	112.6	108.0	106.4	108.0	100.2	91.0	83.3	86.4
82.5°	87.9	86.4	84.8	83.3	84.8	86.4	89.5	87.9	80.1	75.5	77.1
85°	52.4	55.5	58.6	61.6	67.9	60.1	49.4	41.6	37.0	33.9	32.4
87.5°	20.0	27.8	24.6	23.1	24.6	23.1	21.6	20.0	17.0	15.4	15.4
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4721.9	4721.9	4721.9	4721.9	4721.9	4721.9	4721.9	4721.9	4721.9	4721.9
2.5°	5105.9	5136.7	5162.9	5156.8	5102.8	5030.3	5001.0	4851.4	4820.5	4800.5
5°	5175.3	5354.1	5392.7	5369.5	5229.3	5051.9	4879.1	4660.1	4532.2	4527.6
7.5°	5047.3	5267.8	5337.2	5389.6	5203.0	4894.6	4598.5	4270.0	4189.9	4196.0
10°	4721.9	5073.5	5244.6	5298.6	5084.3	4817.5	4407.3	4074.2	3903.0	3900.0
12.5°	4541.5	4817.5	4865.3	4940.9	4877.6	4607.8	4296.2	3923.1	3756.5	3753.5
15°	4381.1	4563.0	4576.9	4683.4	4717.3	4535.3	4325.5	3927.7	3793.5	3779.6
17.5°	4521.4	4395.0	4342.5	4356.4	4456.6	4523.0	4495.1	4189.9	4052.6	3975.5
20°	4615.5	4333.3	4174.5	4189.9	4308.6	4550.7	4748.1	4569.2	4351.8	4361.0
22.5°	4866.9	4342.5	4094.2	4077.3	4265.4	4695.6	5033.4	5048.8	4839.0	4788.1
25°	5243.1	4448.9	4069.6	4065.0	4245.4	4851.4	5366.5	5616.3	5401.9	5307.9
27.5°	5545.4	4615.5	4146.6	4162.1	4308.6	4977.9	5650.2	5981.8	5818.3	5702.7
30°	5810.6	4788.1	4254.6	4183.7	4478.2	5044.1	5772.0	6398.2	6267.0	6171.4
32.5°	5920.1	5033.4	4425.8	4308.6	4618.5	5124.4	6024.9	6802.2	6689.6	6453.7
35°	6105.2	5170.6	4518.4	4509.0	4863.8	5317.1	6143.7	7068.9	7022.7	6812.9
37.5°	6253.2	5309.4	4846.8	4745.0	5199.9	5640.9	6334.9	7437.5	7331.1	7232.3
40°	6367.3	5557.7	5153.6	5287.8	5613.2	5935.5	6510.7	7460.6	7767.5	7480.7
42.5°	6262.4	5779.8	5657.9	5978.7	6287.1	6271.7	6530.7	7639.5	7869.2	7719.7
45°	6236.2	6156.0	6455.2	6746.7	6817.6	6550.8	6387.3	7442.1	7838.5	7772.1
47.5°	6172.9	6526.1	7047.3	7522.3	7414.3	6737.4	6216.2	7406.7	7857.0	7738.2
50°	6151.4	6606.3	7485.3	7948.0	7883.1	6899.3	6135.9	7178.4	7725.8	7715.1
52.5°	6149.8	6771.3	7667.2	8179.2	8219.3	7155.3	6245.4	7294.1	7827.6	7918.6
55°	6219.3	6718.8	7644.1	8051.2	8035.8	7041.2	6257.8	7371.2	7952.6	8042.0
57.5°	5866.1	6018.8	6308.7	6630.9	6547.7	5832.2	5588.5	6814.5	7298.7	7233.9
60°	5065.8	4587.7	4260.8	4245.4	4083.5	3859.9	4573.9	6082.0	6082.0	6018.8
62.5°	4436.6	3011.7	2587.6	2467.3	2583.0	2840.6	4411.9	5915.4	5747.4	5674.9
65°	3879.9	2299.3	1870.6	1836.7	2037.1	2425.7	3989.4	5039.5	4743.5	4502.9
67.5°	2496.7	1683.9	1390.9	1330.8	1572.9	1781.1	2655.5	3099.6	2913.0	2818.9
70°	1609.9	1096.4	774.1	726.3	820.4	1097.9	1696.3	1807.3	1535.9	1472.7
72.5°	761.8	473.4	271.4	223.6	251.4	419.4	670.8	721.7	599.9	549.0
75°	242.1	174.3	111.0	95.6	91.0	108.0	154.2	118.7	86.4	84.8
77.5°	108.0	103.4	87.9	74.0	64.8	54.0	44.7	37.0	38.5	40.1
80°	89.5	81.7	72.5	64.8	54.0	41.6	32.4	24.6	24.6	26.2
82.5°	78.6	70.9	63.2	54.0	46.3	33.9	24.6	17.0	15.4	15.4
85°	33.9	40.1	43.1	46.3	37.0	27.8	17.0	10.8	9.3	9.3
87.5°	13.9	12.4	10.8	9.3	7.7	7.7	6.1	4.6	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)