

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: P528342

Luminaire Tested: **GALN-SA3B-830-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528342
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-830-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 10053 lumens
Efficiency: N/A
Efficacy: 83.1 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

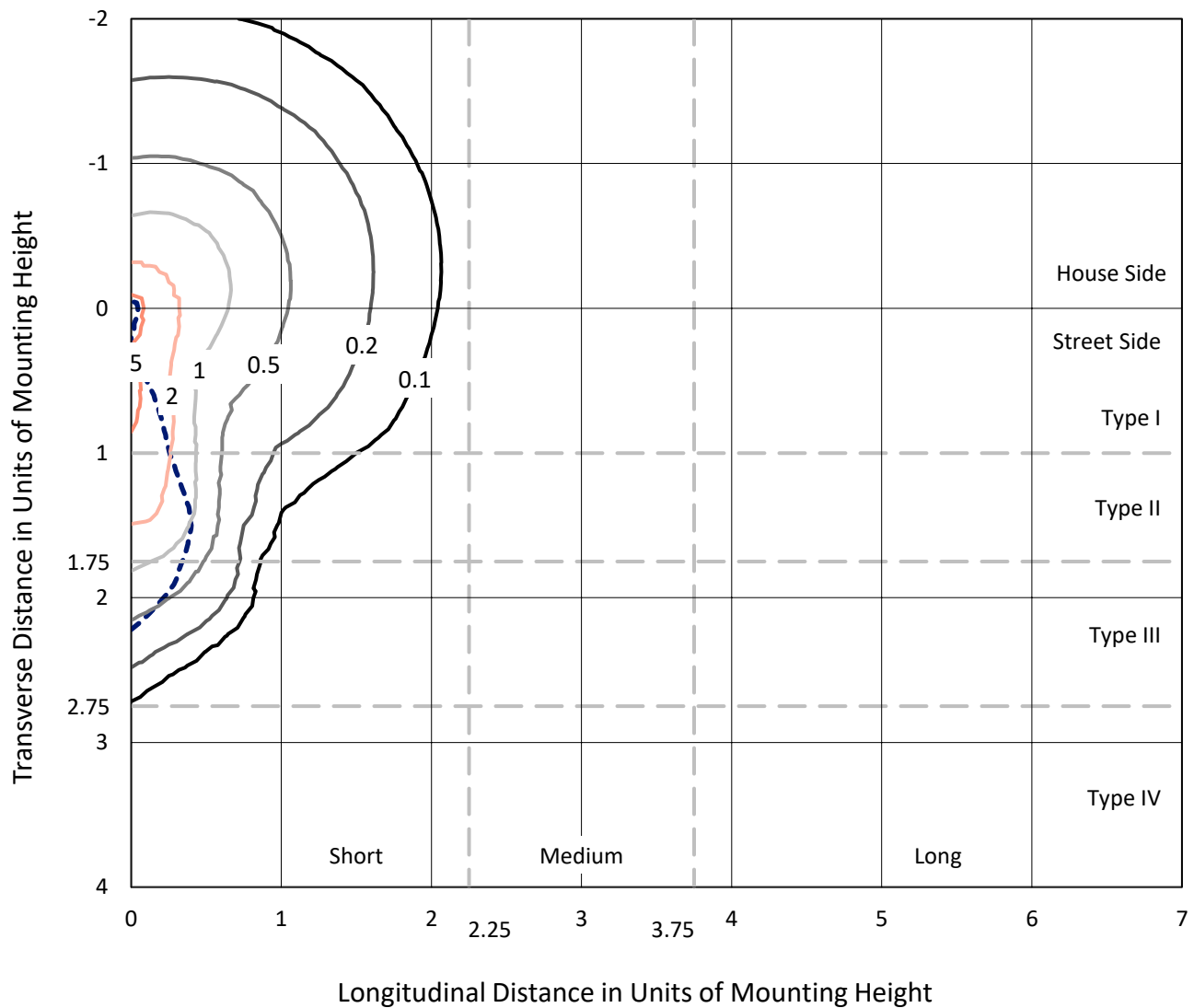


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Iso-Footcandle Lines of Horizontal Illumination

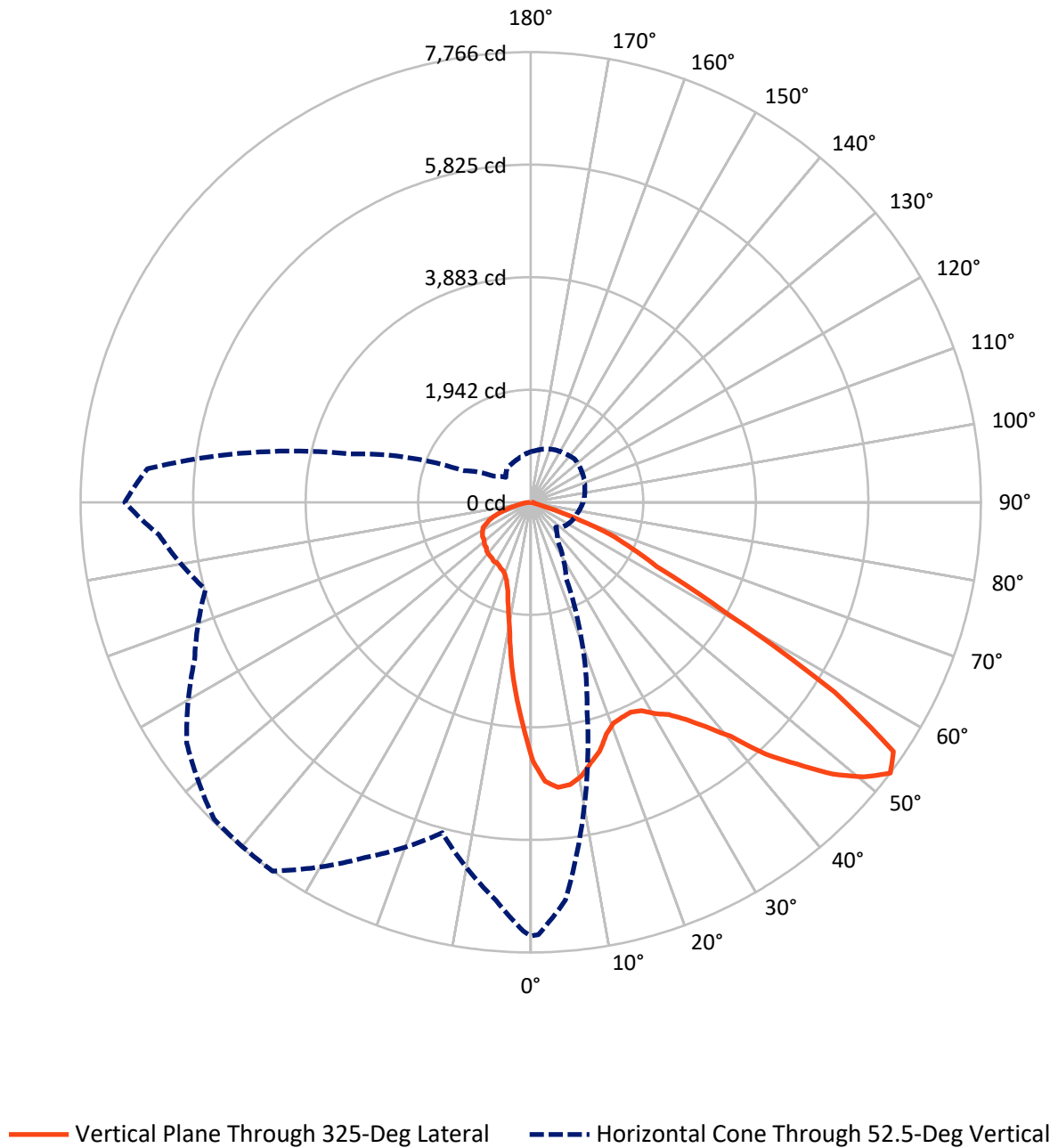
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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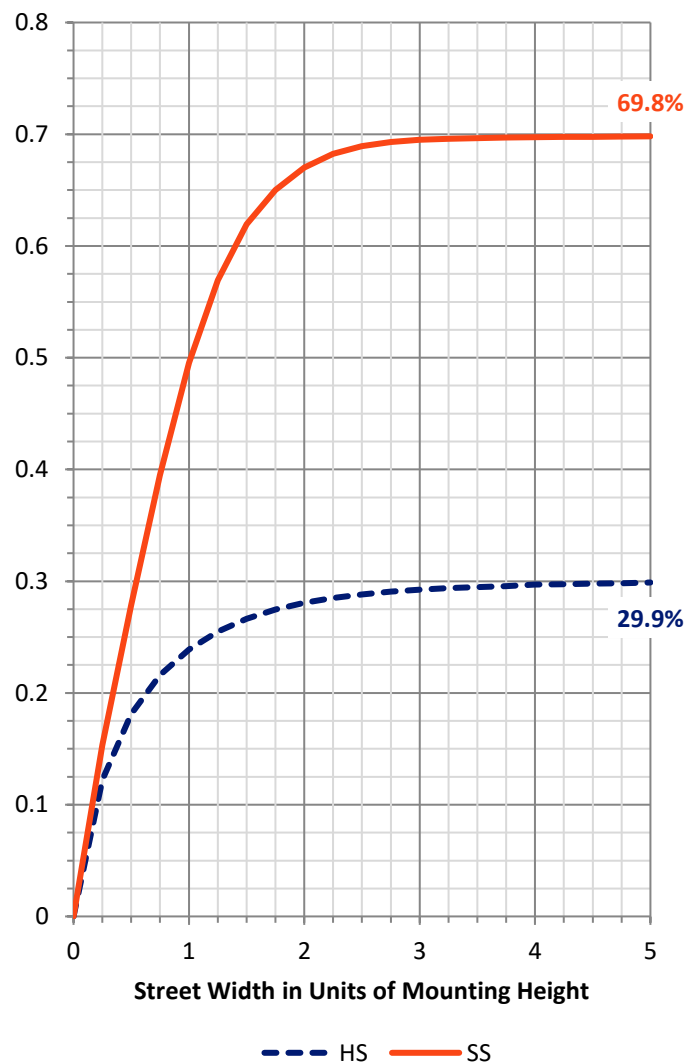
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3030.6	0.0	3030.6
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	7022.4	0.0	7022.4
	% Fixture	69.9	0.0	69.9
Total	Lumens	10053.0	0.0	10053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.4	3.4
10°-20°	737.9	7.3
20°-30°	1114.9	11.1
30°-40°	1611.1	16.0
40°-50°	2144.0	21.3
50°-60°	2398.2	23.9
60°-70°	1351.6	13.4
70°-80°	301.3	3.0
80°-90°	53.7	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°	10053.0	100.0
0°-180°	10053.0	100.0

Coefficient of Utilization



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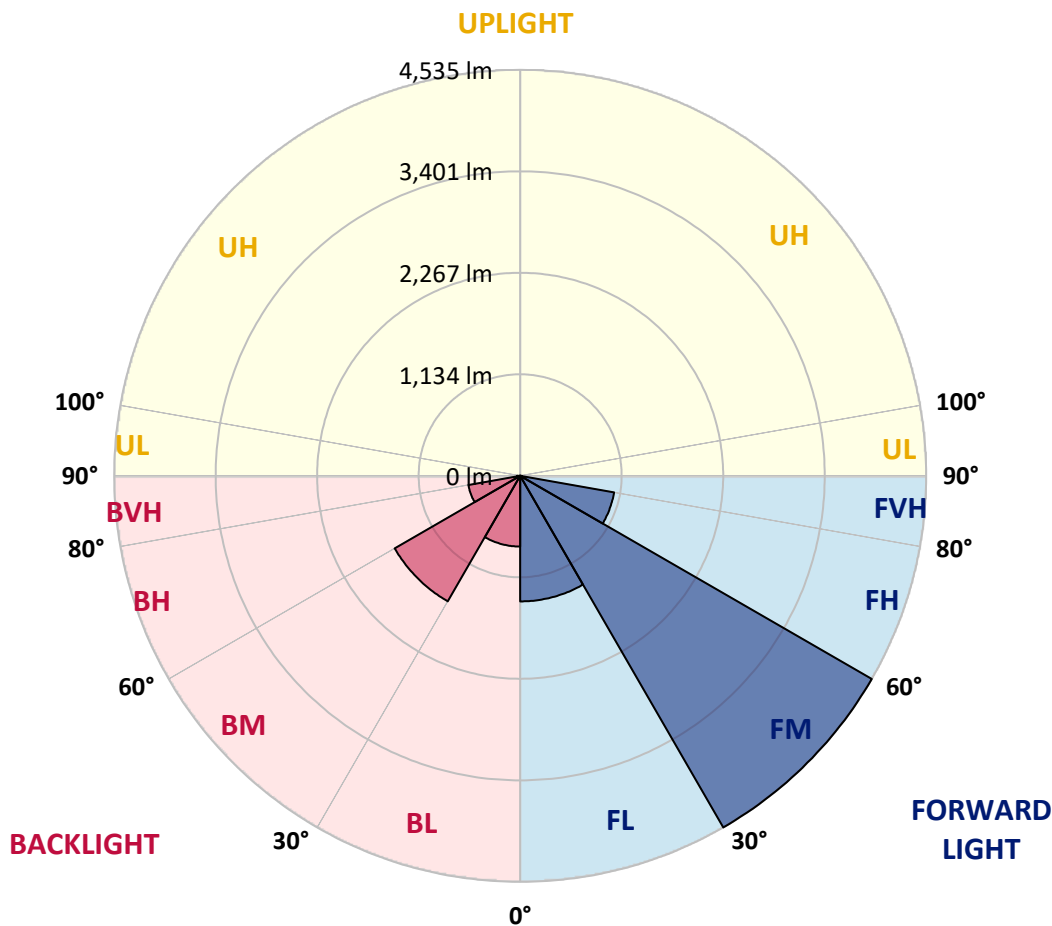
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1402.9	14.0			
FM	(30°-60°)	4534.7	45.1			
FH	(60°-80°)	1065.5	10.6			G1/1800
FVH	(80°-90°)	19.4	0.2			G1/100
BL	(0°-30°)	790.3	7.9	B2/1000		
BM	(30°-60°)	1618.6	16.1	B2/2500		
BH	(60°-80°)	587.4	5.8	B2/1000		G2/1000
BVH	(80°-90°)	34.2	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°	4461.6	4461.6	4461.6	4461.6	4461.6	4461.6	4461.6	4461.6	4461.6	4461.6	4461.6
2.5°	4535.9	4608.7	4530.1	4390.2	4291.1	4200.8	4106.1	4087.1	3963.3	3941.4	3851.1
5°	4278.0	4262.0	4165.8	3982.2	3779.7	3596.1	3460.6	3329.4	3240.5	3137.1	3129.8
7.5°	3964.7	3871.5	3816.1	3537.8	3287.2	2998.7	2874.8	2675.2	2612.5	2519.3	2471.2
10°	3685.0	3616.5	3486.8	3208.5	2858.8	2667.9	2535.3	2427.5	2354.6	2258.5	2137.5
12.5°	3546.5	3518.9	3373.1	2941.8	2682.5	2478.5	2385.2	2280.3	2156.5	2002.0	1942.3
15°	3571.3	3478.1	3367.3	2890.8	2532.4	2335.7	2187.1	2055.9	1897.1	1750.0	1664.0
17.5°	3756.4	3685.0	3463.5	2922.9	2475.6	2191.5	1921.9	1728.1	1585.3	1452.7	1393.0
20°	4120.6	4017.2	3768.0	2963.7	2353.2	1990.4	1681.5	1442.5	1289.5	1219.6	1199.2
22.5°	4524.2	4463.0	4065.3	3055.5	2255.6	1803.9	1426.5	1187.5	1130.7	1111.8	1149.6
25°	5015.3	4856.5	4527.2	3205.6	2179.8	1645.0	1210.8	1078.2	1049.1	1068.0	1111.8
27.5°	5388.3	5346.0	4850.6	3346.9	2076.3	1454.2	1089.9	1002.5	1011.2	1030.2	1071.0
30°	5831.2	5617.0	5163.9	3444.5	1983.1	1323.0	1005.4	982.1	990.8	1022.9	1043.3
32.5°	6097.9	6017.7	5360.6	3591.7	1875.3	1209.4	939.8	918.0	931.1	979.2	1027.2
35°	6437.4	6278.6	5603.9	3629.6	1799.5	1164.2	893.2	877.2	907.8	941.3	995.2
37.5°	6833.7	6724.4	5940.5	3603.4	1758.7	1117.6	853.8	846.6	868.4	915.0	977.7
40°	7068.3	7034.8	6116.8	3619.4	1694.6	1076.8	808.7	817.4	862.6	899.0	960.2
42.5°	7294.1	7075.6	6377.6	3613.6	1653.8	1021.4	813.1	802.9	837.8	880.1	938.4
45°	7343.7	7126.6	6438.8	3572.8	1604.2	967.5	779.5	783.9	826.2	878.6	916.5
47.5°	7311.6	7151.4	6552.5	3561.1	1557.6	929.6	730.0	782.5	807.2	849.5	903.4
50°	7289.8	7281.0	6648.7	3616.5	1495.0	869.9	670.3	763.5	788.3	830.5	888.8
52.5°	7482.1	7463.2	6889.1	3762.2	1445.4	805.8	609.1	715.4	775.2	816.0	872.8
55°	7598.7	7515.6	7301.4	3941.4	1362.4	721.3	566.8	655.7	743.1	779.5	837.8
57.5°	6835.2	6778.3	6604.9	3679.1	1222.5	610.5	514.3	594.5	699.4	756.2	816.0
60°	5687.0	5598.1	5153.7	3126.9	901.9	475.0	482.3	546.4	687.7	709.6	779.5
62.5°	5362.1	5142.0	4537.4	2516.4	692.1	408.0	432.8	502.7	626.5	663.0	732.9
65°	4254.7	4091.5	3246.4	1817.0	463.4	354.1	394.9	453.2	540.6	612.0	676.1
67.5°	2663.5	2507.6	1732.5	859.7	323.5	303.1	352.6	413.8	485.2	549.3	620.7
70°	1391.5	1221.0	799.9	310.4	222.9	247.7	294.3	352.6	422.6	475.0	530.4
72.5°	518.7	421.1	260.8	134.1	154.5	189.4	239.0	281.2	330.8	394.9	425.5
75°	80.1	68.5	67.0	81.6	104.9	137.0	170.5	212.7	256.4	297.2	317.6
77.5°	37.9	36.4	40.8	53.9	69.9	97.6	123.9	164.7	199.6	225.8	237.5
80°	24.8	23.3	26.2	36.4	52.5	72.9	99.1	126.8	158.8	180.7	177.8
82.5°	14.6	16.0	16.0	24.8	36.4	52.5	71.4	96.2	118.0	137.0	125.3
85°	8.7	7.3	7.3	14.6	24.8	42.3	59.7	40.8	42.3	42.3	48.1
87.5°	2.9	2.9	2.9	1.5	2.9	2.9	4.4	7.3	8.7	10.2	13.1
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°	4461.6	4461.6	4461.6	4461.6	4461.6	4461.6	4461.6	4461.6	4461.6	4461.6	4461.6
2.5°	3848.2	3893.3	3877.3	3820.5	3864.2	3871.5	3842.3	3942.9	3961.8	3931.2	3939.9
5°	3119.6	3131.3	3157.5	3212.9	3252.2	3298.8	3298.8	3301.7	3262.4	3361.5	3332.3
7.5°	2430.4	2437.7	2468.3	2586.3	2619.8	2708.7	2746.6	2720.4	2641.7	2608.2	2635.9
10°	2098.2	2055.9	2045.7	2060.3	2136.1	2174.0	2206.0	2197.3	2184.2	2157.9	2128.8
12.5°	1876.7	1846.1	1821.4	1786.4	1790.8	1827.2	1852.0	1831.6	1837.4	1843.2	1852.0
15°	1636.3	1614.4	1601.3	1548.9	1543.0	1567.8	1576.6	1588.2	1610.1	1611.5	1601.3
17.5°	1381.3	1362.4	1391.5	1420.7	1400.3	1401.7	1417.7	1427.9	1422.1	1395.9	1382.8
20°	1206.5	1226.9	1256.0	1283.7	1305.5	1318.7	1324.5	1308.5	1289.5	1235.6	1234.1
22.5°	1155.5	1181.7	1206.5	1248.7	1269.1	1302.6	1272.0	1235.6	1209.4	1183.2	1152.6
25°	1117.6	1139.4	1189.0	1205.0	1244.3	1272.0	1250.2	1213.7	1168.6	1130.7	1107.4
27.5°	1089.9	1114.7	1146.7	1190.4	1221.0	1237.1	1215.2	1200.6	1154.0	1108.8	1075.3
30°	1072.4	1098.6	1156.9	1193.3	1219.6	1232.7	1194.8	1177.3	1143.8	1105.9	1076.8
32.5°	1060.8	1084.1	1133.6	1180.2	1197.7	1197.7	1203.5	1183.2	1136.5	1072.4	1047.6
35°	1022.9	1054.9	1095.7	1149.6	1181.7	1200.6	1171.5	1148.2	1117.6	1052.0	1006.8
37.5°	1001.0	1022.9	1075.3	1126.3	1154.0	1174.4	1162.8	1122.0	1081.2	1027.2	990.8
40°	977.7	1012.7	1059.3	1107.4	1138.0	1158.4	1149.6	1101.6	1052.0	1001.0	976.2
42.5°	961.7	985.0	1033.1	1087.0	1123.4	1162.8	1136.5	1076.8	1041.8	971.9	944.2
45°	948.6	986.4	1037.4	1059.3	1097.2	1138.0	1091.4	1054.9	1014.1	963.1	939.8
47.5°	932.5	967.5	1001.0	1059.3	1076.8	1095.7	1087.0	1028.7	993.7	938.4	922.3
50°	926.7	939.8	1001.0	1033.1	1057.8	1076.8	1053.5	1009.8	976.2	919.4	884.4
52.5°	903.4	928.2	967.5	1009.8	1040.4	1063.7	1025.8	998.1	952.9	893.2	871.3
55°	874.2	888.8	958.8	1002.5	1018.5	1034.5	1020.0	974.8	928.2	867.0	845.1
57.5°	836.4	869.9	926.7	987.9	1008.3	1017.0	993.7	957.3	899.0	845.1	810.1
60°	797.0	832.0	894.6	944.2	964.6	996.6	961.7	939.8	872.8	813.1	775.2
62.5°	757.7	797.0	843.7	906.3	923.8	936.9	928.2	897.6	843.7	776.6	730.0
65°	711.1	740.2	798.5	830.5	842.2	872.8	842.2	830.5	782.5	718.3	679.0
67.5°	641.1	665.9	716.9	747.5	756.2	769.3	767.9	754.8	700.9	657.1	622.2
70°	561.0	582.8	614.9	651.3	655.7	671.7	657.1	654.2	619.3	559.5	540.6
72.5°	450.2	470.6	512.9	528.9	530.4	536.2	528.9	518.7	510.0	447.3	428.4
75°	345.3	357.0	377.4	392.0	392.0	399.2	394.9	384.7	361.4	322.0	303.1
77.5°	240.4	252.1	278.3	287.0	285.6	288.5	275.4	265.2	230.2	209.8	193.8
80°	174.8	182.1	195.2	201.1	202.5	206.9	190.9	182.1	161.7	138.4	131.1
82.5°	126.8	131.1	132.6	139.9	139.9	132.6	128.2	119.5	104.9	90.3	84.5
85°	52.5	53.9	55.4	64.1	65.6	78.7	72.9	68.5	59.7	51.0	46.6
87.5°	13.1	14.6	18.9	16.0	18.9	18.9	20.4	23.3	23.3	18.9	18.9
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4461.6	4461.6	4461.6	4461.6	4461.6	4461.6	4461.6	4461.6	4461.6	4461.6	4461.6
2.5°	3973.5	3985.1	4133.7	4152.7	4225.5	4299.8	4449.9	4557.8	4645.2	4702.0	4718.0
5°	3362.9	3437.3	3505.7	3616.5	3717.0	3859.8	4024.5	4228.5	4484.9	4616.0	4668.5
7.5°	2632.9	2720.4	2819.5	2927.3	3074.4	3330.9	3550.9	3787.0	4114.8	4250.3	4455.8
10°	2149.2	2246.8	2378.0	2461.0	2638.8	2883.6	3140.0	3412.5	3725.8	3921.0	4158.5
12.5°	1900.0	1980.2	2101.1	2276.0	2408.6	2567.4	2758.3	3102.1	3550.9	3736.0	3899.1
15°	1624.6	1713.5	1853.4	2047.2	2206.0	2395.4	2609.6	2984.1	3462.0	3747.6	3886.0
17.5°	1397.3	1461.5	1608.6	1776.2	1958.3	2165.2	2472.7	2978.3	3555.3	3921.0	4146.9
20°	1240.0	1248.7	1328.9	1471.7	1719.4	1988.9	2388.2	2949.1	3854.0	4219.7	4505.3
22.5°	1140.9	1132.2	1133.6	1254.5	1427.9	1815.5	2255.6	3048.2	4193.5	4694.7	4887.1
25°	1091.4	1068.0	1053.5	1079.7	1237.1	1610.1	2155.0	3179.4	4559.2	5086.7	5322.7
27.5°	1065.1	1024.3	995.2	999.6	1114.7	1506.6	2092.4	3236.2	4922.0	5633.1	5716.1
30°	1054.9	1003.9	961.7	947.1	1022.9	1362.4	1958.3	3333.8	5247.0	5933.2	6004.6
32.5°	1018.5	955.8	915.0	901.9	932.5	1235.6	1862.2	3403.7	5534.0	6259.6	6234.9
35°	976.2	923.8	872.8	848.0	869.9	1154.0	1784.9	3370.2	5872.0	6513.2	6500.0
37.5°	971.9	903.4	861.1	820.3	818.9	1053.5	1680.0	3402.3	6087.7	6967.8	6788.5
40°	934.0	890.3	834.9	801.4	782.5	1002.5	1578.0	3326.5	6403.9	7151.4	6975.0
42.5°	935.4	869.9	821.8	782.5	763.5	928.2	1508.1	3306.1	6514.6	7450.1	7062.5
45°	912.1	848.0	807.2	760.6	750.4	871.3	1441.1	3211.4	6709.9	7464.6	6953.2
47.5°	888.8	832.0	788.3	732.9	709.6	850.9	1388.6	3132.7	6607.9	7327.7	6801.7
50°	872.8	807.2	766.4	727.1	661.5	816.0	1320.1	3113.8	6465.1	7142.6	6520.4
52.5°	845.1	786.8	744.6	714.0	609.1	783.9	1293.9	3224.5	6639.9	7004.2	6438.8
55°	818.9	759.1	705.2	645.5	565.3	699.4	1221.0	3328.0	6894.9	7323.3	6808.9
57.5°	791.2	734.4	676.1	604.7	523.1	612.0	1145.3	3346.9	6417.0	6768.1	6463.6
60°	754.8	681.9	638.2	544.9	477.9	507.1	907.8	2950.6	4977.4	5652.0	5662.2
62.5°	714.0	635.3	597.4	488.1	431.3	437.1	740.2	2480.0	4037.6	4678.7	4957.0
65°	660.1	584.3	539.1	451.7	397.8	378.8	542.0	1817.0	3067.2	3795.7	4111.9
67.5°	590.1	518.7	461.9	393.4	355.5	324.9	370.1	1022.9	1811.2	2548.4	2644.6
70°	515.8	454.6	394.9	338.0	295.8	273.9	271.0	453.2	865.5	1371.1	1560.5
72.5°	406.5	362.8	314.7	272.5	244.8	212.7	193.8	188.0	292.9	558.1	770.8
75°	291.4	255.0	227.3	199.6	179.2	161.7	147.2	134.1	122.4	139.9	192.3
77.5°	183.6	170.5	148.6	141.3	129.7	125.3	119.5	112.2	103.5	97.6	97.6
80°	123.9	115.1	107.8	106.4	102.0	100.5	102.0	94.7	86.0	78.7	81.6
82.5°	83.1	81.6	80.1	78.7	80.1	81.6	84.5	83.1	75.8	71.4	72.9
85°	49.5	52.5	55.4	58.3	64.1	56.8	46.6	39.3	35.0	32.1	30.6
87.5°	18.9	26.2	23.3	21.9	23.3	21.9	20.4	18.9	16.0	14.6	14.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4461.6	4461.6	4461.6	4461.6	4461.6	4461.6	4461.6	4461.6	4461.6	4461.6
2.5°	4824.4	4853.5	4878.3	4872.5	4821.5	4753.0	4725.3	4584.0	4554.8	4535.9
5°	4890.0	5059.0	5095.4	5073.6	4941.0	4773.4	4610.2	4403.3	4282.4	4278.0
7.5°	4769.0	4977.4	5043.0	5092.5	4916.2	4624.8	4345.0	4034.7	3958.9	3964.7
10°	4461.6	4793.8	4955.5	5006.5	4804.0	4551.9	4164.3	3849.6	3687.9	3685.0
12.5°	4291.1	4551.9	4597.1	4668.5	4608.7	4353.8	4059.4	3706.8	3549.5	3546.5
15°	4139.6	4311.5	4324.6	4425.2	4457.2	4285.3	4087.1	3711.2	3584.4	3571.3
17.5°	4272.2	4152.7	4103.1	4116.3	4211.0	4273.6	4247.4	3958.9	3829.2	3756.4
20°	4361.0	4094.4	3944.3	3958.9	4071.1	4299.8	4486.4	4317.3	4111.9	4120.6
22.5°	4598.5	4103.1	3868.6	3852.5	4030.3	4436.8	4755.9	4770.5	4572.3	4524.2
25°	4954.1	4203.7	3845.2	3840.9	4011.3	4584.0	5070.6	5306.7	5104.2	5015.3
27.5°	5239.7	4361.0	3918.1	3932.7	4071.1	4703.5	5338.7	5652.0	5497.6	5388.3
30°	5490.3	4524.2	4020.1	3953.1	4231.4	4766.1	5453.9	6045.4	5921.6	5831.2
32.5°	5593.7	4755.9	4181.8	4071.1	4364.0	4841.9	5692.8	6427.2	6320.8	6097.9
35°	5768.6	4885.6	4269.2	4260.5	4595.6	5024.0	5805.0	6679.3	6635.5	6437.4
37.5°	5908.5	5016.7	4579.6	4483.4	4913.3	5330.0	5985.7	7027.5	6927.0	6833.7
40°	6016.3	5251.3	4869.6	4996.3	5303.8	5608.3	6151.8	7049.4	7339.3	7068.3
42.5°	5917.2	5461.1	5346.0	5649.1	5940.5	5925.9	6170.7	7218.4	7435.5	7294.1
45°	5892.4	5816.7	6099.3	6374.7	6441.8	6189.7	6035.2	7031.9	7406.3	7343.7
47.5°	5832.7	6166.4	6658.9	7107.6	7005.6	6366.0	5873.5	6998.4	7423.8	7311.6
50°	5812.3	6242.1	7072.7	7509.8	7448.6	6519.0	5797.7	6782.7	7300.0	7289.8
52.5°	5810.8	6398.0	7244.6	7728.4	7766.2	6760.9	5901.2	6892.0	7396.1	7482.1
55°	5876.4	6348.5	7222.8	7607.4	7592.9	6653.0	5912.8	6964.8	7514.2	7598.7
57.5°	5542.7	5687.0	5960.9	6265.4	6186.8	5510.7	5280.5	6438.8	6896.4	6835.2
60°	4786.5	4334.8	4025.9	4011.3	3858.4	3647.1	4321.7	5746.7	5746.7	5687.0
62.5°	4192.0	2845.7	2445.0	2331.3	2440.6	2683.9	4168.7	5589.4	5430.5	5362.1
65°	3666.0	2172.5	1767.4	1735.4	1924.8	2292.0	3769.5	4761.7	4482.0	4254.7
67.5°	2359.0	1591.1	1314.3	1257.5	1486.2	1682.9	2509.1	2928.7	2752.4	2663.5
70°	1521.2	1036.0	731.5	686.3	775.2	1037.4	1602.8	1707.7	1451.3	1391.5
72.5°	719.8	447.3	256.4	211.3	237.5	396.3	633.8	681.9	566.8	518.7
75°	228.8	164.7	104.9	90.3	86.0	102.0	145.7	112.2	81.6	80.1
77.5°	102.0	97.6	83.1	69.9	61.2	51.0	42.3	35.0	36.4	37.9
80°	84.5	77.2	68.5	61.2	51.0	39.3	30.6	23.3	23.3	24.8
82.5°	74.3	67.0	59.7	51.0	43.7	32.1	23.3	16.0	14.6	14.6
85°	32.1	37.9	40.8	43.7	35.0	26.2	16.0	10.2	8.7	8.7
87.5°	13.1	11.7	10.2	8.7	7.3	7.3	5.8	4.4	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)