

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: P647891

Luminaire Tested: **GALN-SA4A-835-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-835-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12210.1 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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

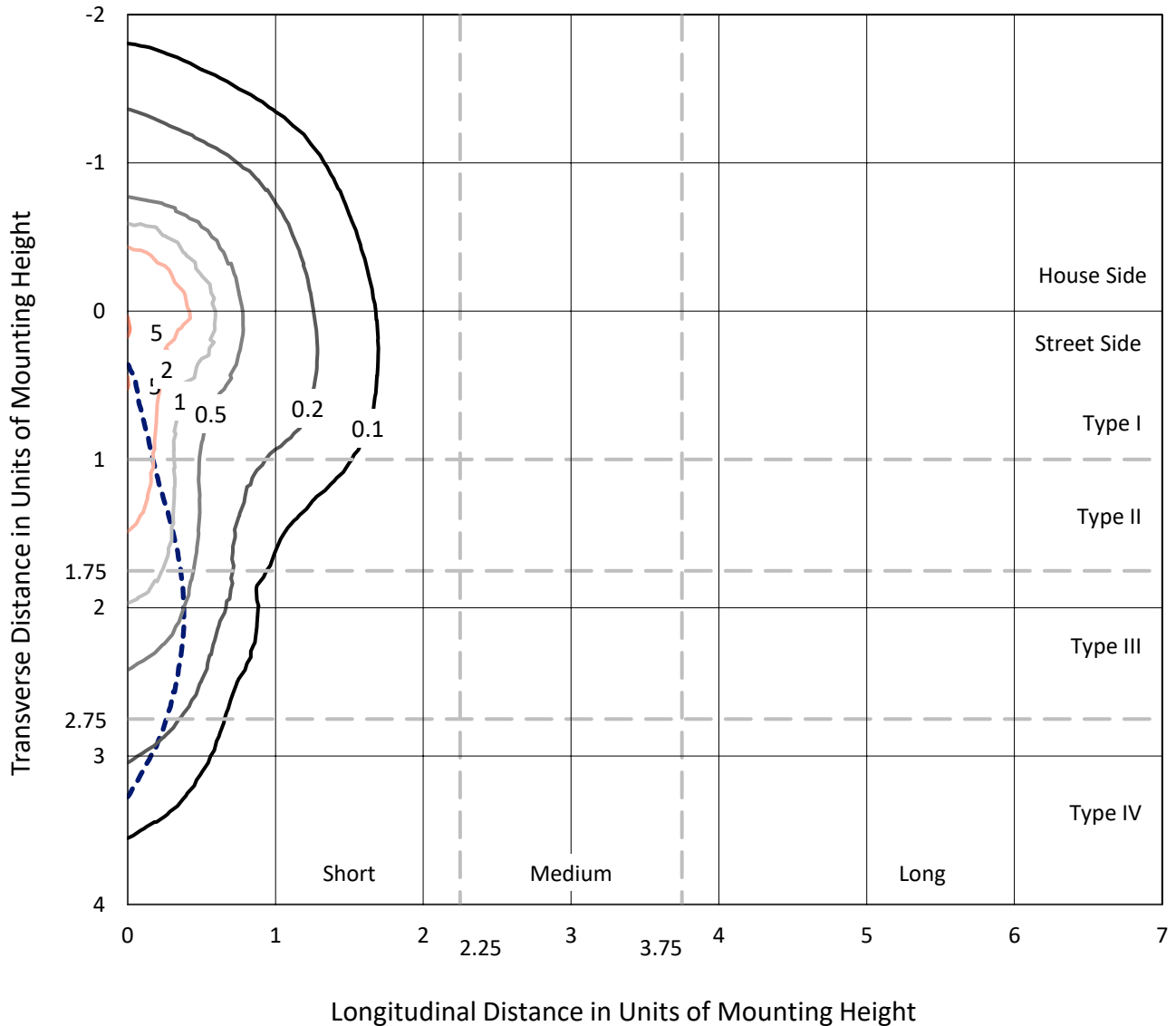




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Iso-Footcandle Lines of Horizontal Illumination

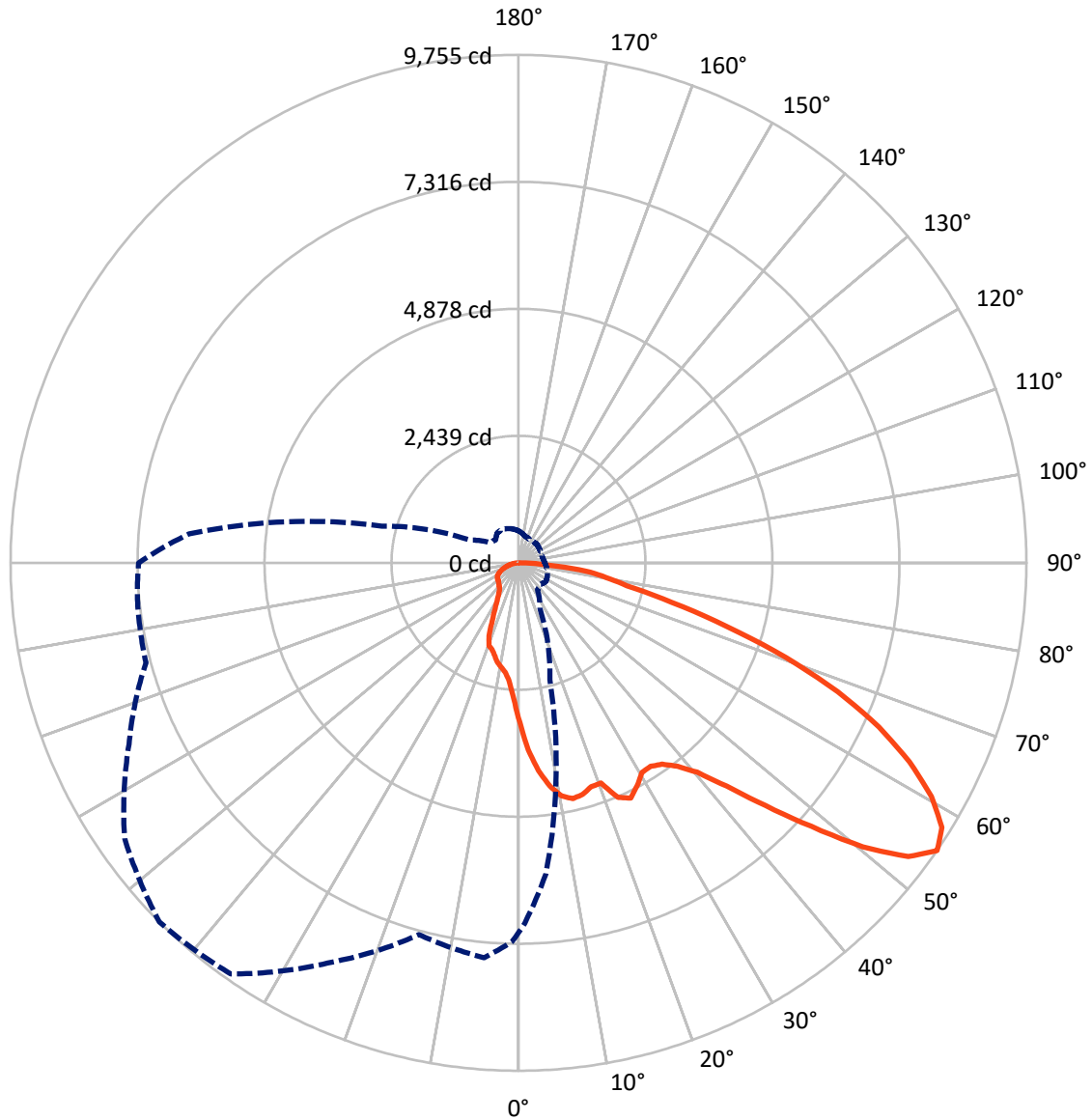
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2670.9	0.0	2670.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	9539.2	0.0	9539.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	12210.1	0.0	12210.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.7	2.1
10°-20°	689.0	5.6
20°-30°	1190.3	9.7
30°-40°	1383.3	11.3
40°-50°	1930.0	15.8
50°-60°	2618.8	21.4
60°-70°	2491.4	20.4
70°-80°	1345.9	11.0
80°-90°	301.6	2.5
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°	12210.1	100.0
0°-180°	12210.1	100.0

Coefficient of Utilization



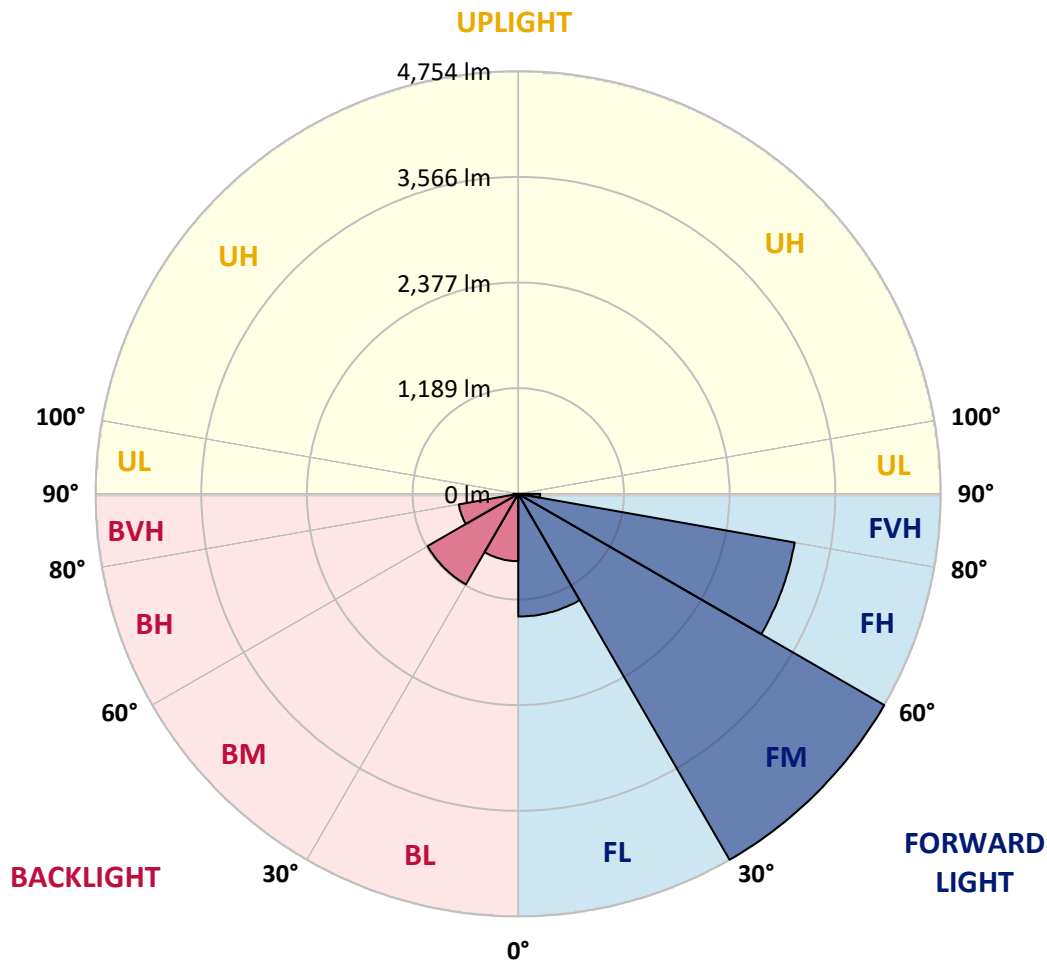
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1381.0	11.3			
FM (30°-60°)	4754.4	38.9			
FH (60°-80°)	3157.3	25.9			G2/5000
FVH (80°-90°)	246.5	2.0			G3/500
BL (0°-30°)	758.0	6.2	B2/1000		
BM (30°-60°)	1177.7	9.6	B2/2500		
BH (60°-80°)	680.1	5.6	B2/1000		G2/1000
BVH (80°-90°)	55.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3
2.5°	3404.2	3391.3	3355.1	3260.0	3164.2	3066.7	2991.8	2898.4	2800.9	2748.5	2681.6
5°	3450.9	3436.4	3351.0	3136.8	2942.6	2738.9	2576.1	2433.5	2375.5	2290.1	2221.7
7.5°	3341.4	3335.0	3206.9	2899.1	2633.3	2366.7	2182.2	2067.8	1963.9	1925.2	1933.3
10°	3241.5	3215.7	3055.4	2653.4	2343.3	2126.6	1994.5	1882.6	1809.2	1789.9	1793.9
12.5°	3158.5	3123.9	2934.6	2488.3	2216.8	2043.6	1875.3	1758.5	1691.6	1710.2	1772.9
15°	3141.6	3094.9	2883.8	2431.9	2147.5	1924.5	1740.0	1605.5	1555.5	1595.8	1696.4
17.5°	3251.2	3192.4	2970.8	2450.5	2081.5	1802.8	1576.4	1422.6	1380.7	1445.1	1576.4
20°	3603.1	3516.1	3242.2	2557.6	2075.0	1742.4	1481.4	1326.7	1344.4	1466.9	1603.8
22.5°	4254.0	4123.5	3717.5	2713.9	2108.9	1727.1	1462.0	1381.5	1478.9	1582.9	1673.1
25°	4382.9	4280.6	3803.0	2749.3	2101.7	1716.6	1516.8	1557.1	1665.8	1717.4	1686.0
27.5°	4455.4	4338.6	3797.3	2573.7	1879.3	1557.1	1450.0	1516.8	1544.2	1494.3	1408.9
30°	4624.6	4503.0	3893.2	2389.2	1547.4	1155.2	1012.6	985.2	1003.7	1013.4	982.7
32.5°	4857.4	4737.4	4073.6	2268.4	1338.0	955.3	815.2	776.5	767.7	757.2	745.1
35°	5158.6	4974.2	4250.8	2191.1	1251.8	883.7	754.8	725.0	712.9	698.4	685.5
37.5°	5464.8	5271.4	4474.8	2109.7	1194.6	833.7	714.5	700.8	679.9	664.5	646.1
40°	5790.2	5573.5	4678.6	2038.8	1139.0	801.5	685.5	683.9	656.5	638.8	617.0
42.5°	6072.2	5849.0	4860.6	1995.3	1096.4	767.7	667.8	672.6	644.4	617.9	589.7
45°	6296.1	6076.9	5029.0	1995.3	1061.7	733.8	664.5	661.3	633.1	600.1	567.9
47.5°	6492.6	6266.3	5193.3	2046.1	1040.0	705.6	646.8	652.5	623.5	581.6	550.2
50°	6644.9	6445.1	5414.8	2125.0	1018.2	683.1	624.3	654.9	615.4	571.9	535.7
52.5°	6839.0	6660.2	5681.4	2233.0	999.7	658.1	604.2	654.9	614.7	572.8	533.3
55°	7108.1	6919.5	6002.9	2322.4	969.9	634.8	586.5	636.3	612.2	568.7	526.8
57.5°	7296.5	7155.6	6230.0	2382.0	927.2	604.9	570.3	618.6	601.7	553.4	507.5
58°	7305.4	7167.7	6263.1	2395.7	916.7	599.3	566.3	610.6	596.9	546.9	501.0
60°	7203.9	7085.5	6269.5	2376.3	857.1	571.1	545.4	577.5	571.1	509.1	466.4
62.5°	6835.0	6708.5	6009.3	2219.3	778.1	536.5	513.1	533.3	518.7	455.9	416.5
65°	6310.6	6077.8	5474.4	1972.8	721.8	499.4	469.6	471.2	455.9	410.8	376.2
67.5°	5612.2	5352.0	4635.0	1662.6	679.1	458.4	418.0	414.1	395.5	366.5	338.3
70°	4752.7	4574.7	3766.7	1352.5	631.6	413.3	360.1	357.7	346.4	324.6	299.7
72.5°	3852.0	3625.7	3041.7	1082.7	573.5	369.7	306.1	310.9	296.4	281.1	258.5
75°	2842.8	2694.5	2351.3	868.3	495.4	322.2	255.3	257.0	250.6	234.4	216.7
77.5°	1872.1	1827.8	1682.0	570.3	381.0	256.2	208.7	210.2	205.4	190.9	172.4
80°	1259.8	1230.0	1139.8	367.3	254.6	185.3	161.1	162.7	161.9	146.6	121.6
82.5°	776.5	763.7	734.6	248.1	176.4	132.9	106.3	111.2	120.0	103.1	83.0
85°	366.5	367.3	443.9	135.3	103.9	85.4	58.0	62.0	62.0	62.0	46.7
87.5°	47.5	50.0	61.2	57.2	37.9	32.3	20.9	17.7	15.3	20.1	14.5
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°	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3
2.5°	2658.3	2642.2	2607.5	2599.5	2594.6	2608.3	2572.1	2581.7	2565.7	2610.8	2603.5
5°	2225.7	2227.3	2255.5	2274.1	2280.5	2274.1	2249.9	2208.0	2175.7	2162.9	2166.1
7.5°	1918.0	1946.1	1994.5	2048.5	2097.6	2112.1	2098.4	2018.7	1931.7	1876.9	1859.2
10°	1815.7	1853.5	1909.1	1951.8	1995.3	2029.9	2037.2	1975.2	1872.1	1742.4	1691.6
12.5°	1821.3	1872.9	1926.0	1939.7	1935.7	1949.4	1942.9	1932.4	1864.8	1699.7	1615.1
15°	1768.2	1829.4	1866.4	1859.2	1846.3	1834.2	1817.3	1790.7	1766.5	1650.6	1557.1
17.5°	1645.7	1708.5	1739.1	1741.5	1741.5	1738.3	1697.2	1687.6	1684.4	1628.0	1570.8
20°	1668.3	1702.9	1689.2	1666.6	1673.1	1694.9	1670.7	1665.8	1684.4	1709.4	1698.9
22.5°	1681.2	1669.0	1566.0	1466.1	1443.5	1511.2	1524.9	1578.8	1653.8	1744.0	1802.8
25°	1601.4	1503.9	1319.4	1206.7	1143.0	1205.9	1288.0	1387.9	1499.9	1615.9	1684.4
27.5°	1338.8	1264.7	1132.6	1031.1	975.5	985.2	1055.2	1146.3	1250.2	1328.4	1378.2
30°	1008.5	975.5	907.0	872.4	838.6	830.5	860.3	895.0	940.9	950.6	963.4
32.5°	742.7	737.9	741.9	730.6	724.2	723.3	714.5	722.6	727.4	733.0	721.8
35°	671.8	665.4	654.1	650.9	646.8	648.5	644.4	640.4	643.6	648.5	651.7
37.5°	635.6	625.9	609.8	604.2	604.2	606.6	600.1	598.5	604.2	619.4	627.5
40°	607.4	596.1	577.5	570.3	575.1	581.6	572.8	569.5	583.2	599.3	612.2
42.5°	580.8	571.9	554.2	546.1	550.2	562.3	549.4	546.9	564.7	582.4	597.7
45°	558.2	549.4	533.3	529.2	530.9	542.1	533.3	533.3	550.2	569.5	583.2
47.5°	540.5	529.2	518.7	515.5	517.2	523.6	522.0	522.0	538.1	558.2	571.9
50°	522.8	513.1	499.4	501.0	505.0	514.0	513.1	515.5	531.7	556.6	571.1
52.5°	514.7	500.3	484.9	486.6	498.6	509.1	505.9	508.3	526.8	573.5	594.5
55°	505.9	486.6	468.9	471.2	484.9	500.3	496.2	499.4	521.2	584.8	613.8
57.5°	489.0	466.4	447.1	448.7	468.9	484.9	478.5	482.5	508.3	572.8	603.4
58°	481.7	462.4	443.9	444.7	464.0	481.7	474.5	477.7	504.3	569.5	598.5
60°	451.1	439.8	423.7	424.5	443.0	458.4	454.3	457.5	483.3	546.1	567.9
62.5°	409.2	402.8	398.7	398.7	410.0	424.5	428.5	432.6	455.9	493.8	513.1
65°	364.1	364.1	364.9	364.9	372.2	390.7	393.1	403.6	425.3	443.9	458.4
67.5°	333.5	331.9	333.5	329.5	332.7	344.0	356.0	365.7	388.3	401.1	406.0
70°	294.0	293.2	294.0	288.4	292.4	302.1	310.1	326.3	349.6	359.2	361.7
72.5°	255.3	255.3	257.0	252.9	252.9	263.4	269.0	286.7	308.5	314.1	315.0
75°	215.1	217.5	217.5	211.9	213.4	219.9	227.1	241.6	261.8	265.8	265.8
77.5°	170.8	179.6	179.6	174.0	176.4	177.2	186.9	194.1	209.5	211.0	204.6
80°	124.0	132.9	140.2	135.3	139.4	134.5	140.2	145.0	160.3	153.1	142.6
82.5°	88.6	95.1	100.7	101.5	97.5	88.6	95.8	96.7	103.9	94.3	88.6
85°	49.2	54.8	62.0	58.8	52.4	46.7	49.2	50.7	50.0	47.5	44.3
87.5°	12.9	13.7	15.3	11.3	10.5	8.8	12.1	12.1	13.7	14.5	13.7
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°	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3
2.5°	2609.1	2644.6	2721.1	2779.1	2850.0	2936.2	3037.6	3140.0	3250.3	3285.0	3333.3
5°	2158.8	2247.4	2284.5	2390.0	2494.7	2651.8	2819.3	3013.5	3226.2	3328.5	3426.7
7.5°	1844.7	1892.2	1930.9	2008.2	2133.8	2324.8	2535.0	2777.5	3078.8	3227.8	3372.0
10°	1675.5	1680.3	1727.8	1823.8	1933.3	2101.7	2300.6	2572.1	2908.0	3089.2	3258.4
12.5°	1563.6	1542.6	1594.2	1694.0	1818.1	1973.6	2156.4	2415.0	2784.7	2970.8	3175.5
15°	1465.3	1432.3	1470.9	1573.2	1695.7	1878.5	2075.0	2348.9	2736.4	2953.1	3180.2
17.5°	1467.7	1376.7	1390.4	1476.6	1598.2	1784.3	2022.7	2346.5	2809.7	3059.4	3328.5
20°	1648.9	1503.1	1441.1	1457.2	1574.8	1777.8	2046.8	2459.3	3050.6	3414.7	3702.3
22.5°	1827.0	1739.1	1639.3	1606.2	1670.7	1883.3	2200.7	2725.9	3574.2	4122.7	4642.3
25°	1765.0	1839.8	1814.8	1768.2	1782.7	1959.1	2305.5	2945.0	3980.9	4598.8	5087.0
27.5°	1412.1	1548.2	1575.6	1574.8	1580.5	1725.4	2073.5	2797.7	4031.7	4689.9	5156.2
30°	992.5	1004.5	1019.0	1047.2	1072.9	1202.7	1622.4	2456.1	4009.1	4730.9	5198.1
32.5°	716.1	732.3	752.4	791.1	852.3	1017.4	1419.3	2347.4	4128.4	4900.9	5320.6
35°	654.9	673.5	692.8	737.0	795.1	948.1	1338.8	2302.3	4324.1	5176.3	5540.5
37.5°	635.6	656.5	673.5	705.6	752.4	898.2	1265.5	2271.6	4524.7	5468.0	5835.3
40°	621.9	646.1	659.8	685.5	717.7	852.3	1200.3	2247.4	4718.8	5734.6	6072.2
42.5°	609.8	634.8	652.5	671.0	697.6	811.2	1142.2	2223.3	4887.2	5993.2	6308.2
45°	595.3	626.7	649.3	663.7	687.2	776.5	1097.9	2203.9	5078.9	6222.7	6546.6
47.5°	583.2	617.9	646.1	663.0	671.8	752.4	1062.5	2230.5	5309.3	6462.8	6768.1
50°	584.0	617.0	652.5	679.1	655.7	732.3	1040.8	2336.1	5608.9	6748.0	6942.9
52.5°	609.8	650.0	678.2	684.7	633.1	708.1	1029.5	2520.6	5963.4	7000.1	7119.3
55°	638.8	680.7	711.3	707.3	621.1	677.5	1027.1	2717.1	6351.6	7294.1	7348.9
57.5°	628.3	689.5	736.3	715.3	621.9	647.6	1016.6	2875.7	6676.2	7514.1	7576.1
58°	625.1	686.3	739.5	713.7	619.4	638.8	1014.1	2889.4	6721.4	7529.3	7608.3
60°	593.7	658.1	737.0	701.6	605.7	614.7	987.6	2933.7	6709.3	7450.4	7627.6
62.5°	536.5	589.7	681.4	642.8	563.8	582.4	928.0	2879.0	6382.2	7070.2	7344.9
65°	472.1	511.5	572.8	565.5	504.3	549.4	846.6	2662.3	5727.3	6453.2	6742.3
67.5°	423.7	455.9	494.6	484.1	453.5	505.0	758.8	2295.8	4992.7	5712.1	6076.2
70°	374.6	399.6	418.9	411.6	402.0	461.6	680.7	1863.2	4288.6	5008.0	5360.8
72.5°	324.6	348.0	364.1	353.6	348.0	415.7	617.0	1446.0	3387.3	4131.6	4585.1
75°	271.5	294.8	306.1	294.0	290.8	366.5	522.8	1080.2	2541.5	3185.1	3576.6
77.5°	210.2	235.2	249.7	245.7	247.3	301.3	422.1	739.5	1817.3	2170.9	2583.4
80°	147.4	174.8	184.5	180.4	191.7	229.6	298.0	469.6	1253.4	1408.9	1699.7
82.5°	91.1	116.8	118.4	122.5	130.5	170.0	224.7	286.0	787.0	813.6	1024.6
85°	45.9	55.6	59.6	66.1	73.3	103.9	128.1	177.2	506.7	383.4	572.8
87.5°	15.3	16.1	19.3	24.2	29.8	42.7	54.8	72.5	125.7	69.3	177.2
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°	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3
2.5°	3430.8	3499.2	3549.2	3595.1	3550.8	3546.8	3503.3	3433.2	3404.2	3404.2
5°	3633.0	3793.2	3923.0	4005.9	3970.5	3885.1	3744.1	3564.5	3467.8	3450.9
7.5°	3688.6	4005.1	4246.0	4331.4	4271.7	4083.3	3813.4	3510.5	3372.0	3341.4
10°	3654.7	4066.4	4420.0	4555.3	4472.3	4187.2	3819.1	3447.7	3276.9	3241.5
12.5°	3619.3	4074.4	4452.2	4648.0	4593.9	4271.0	3860.1	3406.6	3209.3	3158.5
15°	3645.0	4077.6	4412.8	4614.9	4649.5	4371.6	3927.8	3436.4	3195.6	3141.6
17.5°	3807.8	4138.9	4356.4	4519.9	4641.5	4508.6	4120.3	3579.0	3318.0	3251.2
20°	4147.7	4285.4	4388.6	4515.0	4710.8	4788.1	4514.2	3970.5	3661.9	3603.1
22.5°	5132.1	5107.1	4896.0	4893.6	5177.2	5487.3	5468.8	4766.4	4302.4	4254.0
25°	5501.0	5385.0	5079.7	5005.6	5130.5	5608.9	5539.6	4929.1	4500.5	4382.9
27.5°	5356.8	5069.2	4868.7	4851.8	4810.7	5262.5	5429.3	4995.1	4569.8	4455.4
30°	5348.0	4925.1	4638.3	4672.1	4711.5	5143.4	5490.6	5202.2	4747.0	4624.6
32.5°	5369.7	4945.2	4655.2	4661.7	4779.3	5161.1	5558.2	5427.7	4979.8	4857.4
35°	5457.5	5059.6	4763.1	4747.8	4931.5	5277.0	5673.4	5782.1	5298.0	5158.6
37.5°	5599.3	5287.5	4960.5	4956.5	5223.1	5486.5	5816.8	6139.8	5614.6	5464.8
40°	5807.9	5554.1	5311.7	5289.9	5619.4	5827.2	6002.9	6520.8	5982.7	5790.2
42.5°	6060.0	5874.0	5774.9	5861.1	6177.6	6209.9	6292.8	6872.9	6296.1	6072.2
45°	6293.7	6284.8	6422.6	6651.3	6835.7	6642.4	6595.8	7108.9	6539.3	6296.1
47.5°	6571.6	6811.6	7227.2	7562.4	7755.7	7145.9	6854.3	7262.7	6716.6	6492.6
50°	6853.5	7442.3	8106.1	8573.3	8614.4	7692.9	7032.4	7407.7	6877.6	6644.9
52.5°	7150.0	7945.8	8829.5	9372.4	9292.6	8169.0	7204.7	7506.0	7043.6	6839.0
55°	7407.7	8254.3	9233.8	9755.0	9638.3	8458.9	7390.8	7612.3	7280.4	7108.1
57.5°	7551.9	8280.1	9133.1	9588.3	9461.9	8402.5	7476.2	7691.3	7431.8	7296.5
58°	7572.9	8245.5	9043.7	9491.6	9362.7	8355.0	7475.4	7688.0	7441.6	7305.4
60°	7554.3	8020.7	8711.0	9109.8	8974.5	8057.0	7444.8	7627.6	7319.1	7203.9
62.5°	7382.8	7630.8	8136.7	8426.7	8388.0	7591.3	7319.1	7399.7	6946.1	6835.0
65°	7157.2	7099.2	7401.2	7606.7	7635.7	7242.6	7194.2	6906.7	6467.7	6310.6
67.5°	6883.3	6496.6	6495.8	6612.7	6661.0	6706.1	6934.1	6371.0	5778.1	5612.2
70°	6418.5	5567.8	5311.7	5449.4	5409.2	5790.2	6469.2	5618.7	4946.8	4752.7
72.5°	5566.3	4418.4	4008.3	4185.5	4084.0	4540.8	5660.5	4623.8	4090.5	3852.0
75°	4511.8	3305.1	2882.2	3044.9	2982.1	3444.5	4710.0	3358.3	2933.7	2842.8
77.5°	3503.3	2394.9	2149.2	2126.6	2173.4	2563.2	3454.9	2267.6	1934.1	1872.1
80°	2250.7	1714.1	1728.7	1699.7	1723.9	1615.9	2097.6	1446.7	1309.8	1259.8
82.5°	1481.4	1194.6	1424.2	1314.7	1248.6	1086.6	1375.9	947.3	803.9	776.5
85°	1009.4	879.6	800.7	612.2	721.0	836.9	1031.9	509.9	404.3	366.5
87.5°	455.9	306.1	224.7	138.6	219.1	252.9	501.0	59.6	45.9	47.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)