

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: P531722

Luminaire Tested: **GALN-SA7A-735-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531722
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-SA7A-735-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA 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: 22099 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

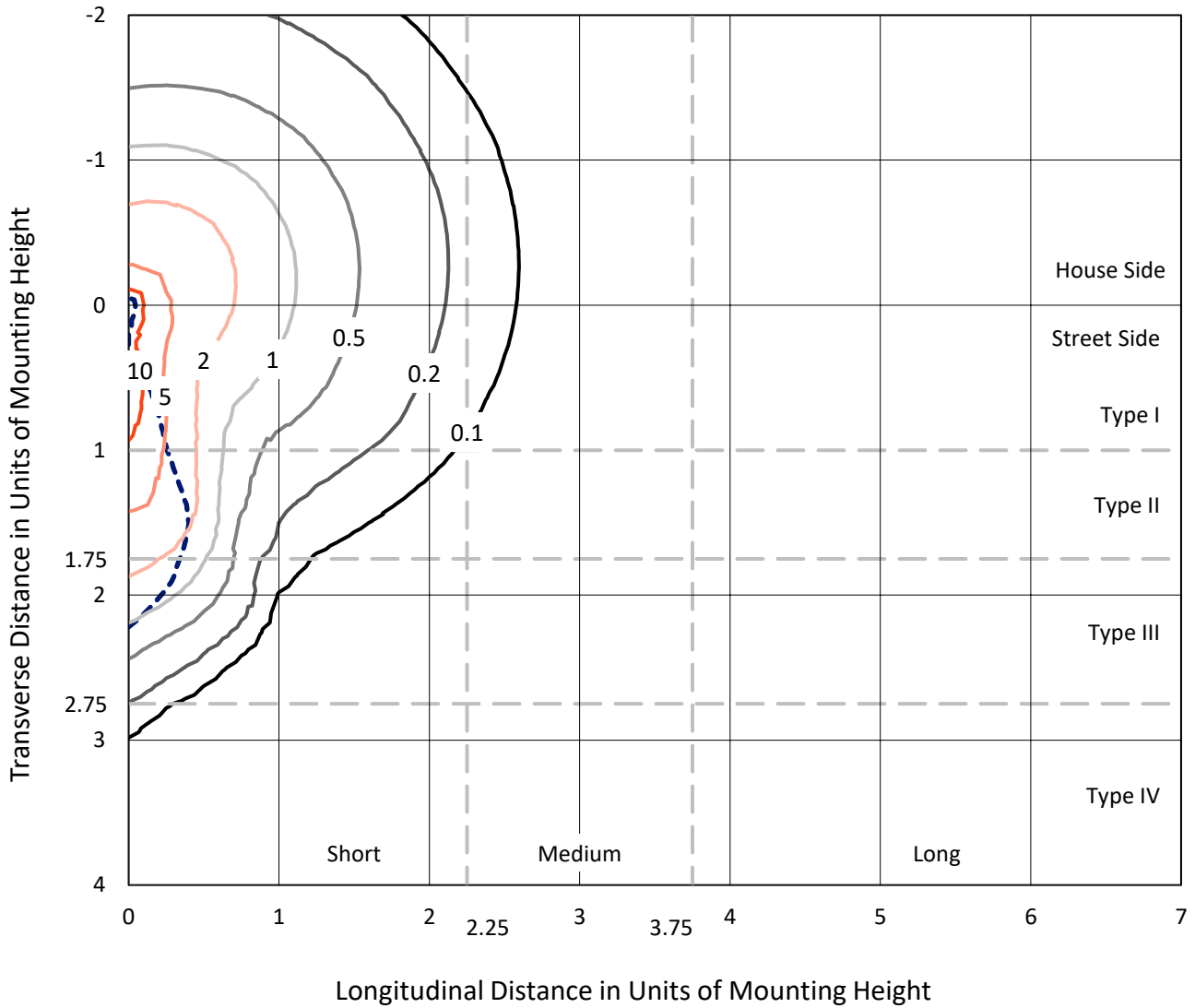
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

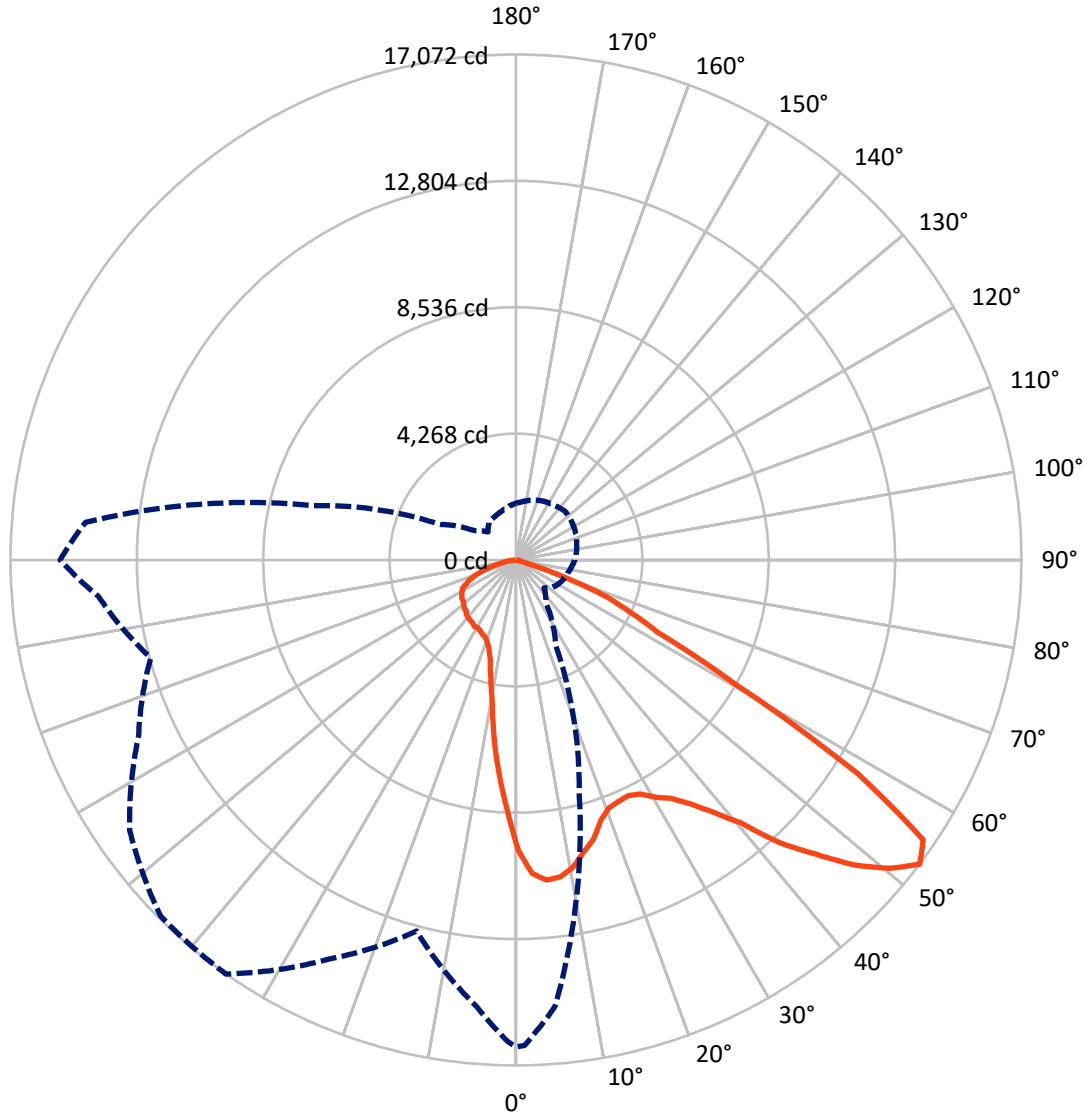
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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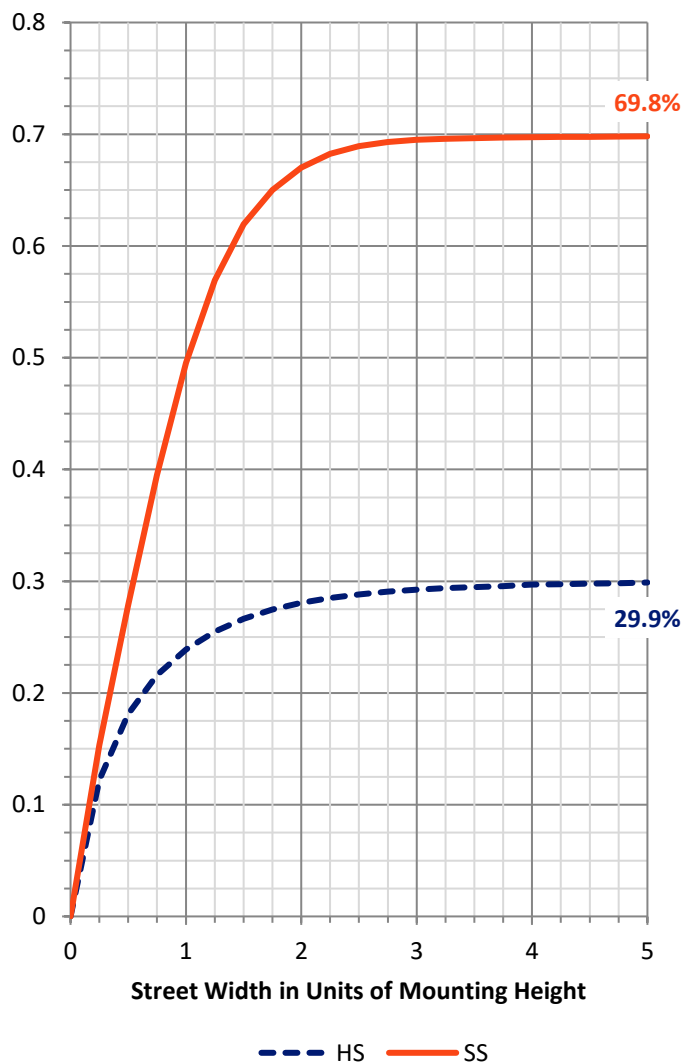
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6661.9	0.0	6661.9
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	15437.1	0.0	15437.1
	% Fixture	69.9	0.0	69.9
Total	Lumens	22099.0	0.0	22099.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	748.2	3.4
10°-20°	1622.1	7.3
20°-30°	2450.8	11.1
30°-40°	3541.5	16.0
40°-50°	4713.2	21.3
50°-60°	5271.8	23.9
60°-70°	2971.1	13.4
70°-80°	662.3	3.0
80°-90°	117.9	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°	22099.0	100.0
0°-180°	22099.0	100.0

Coefficient of Utilization



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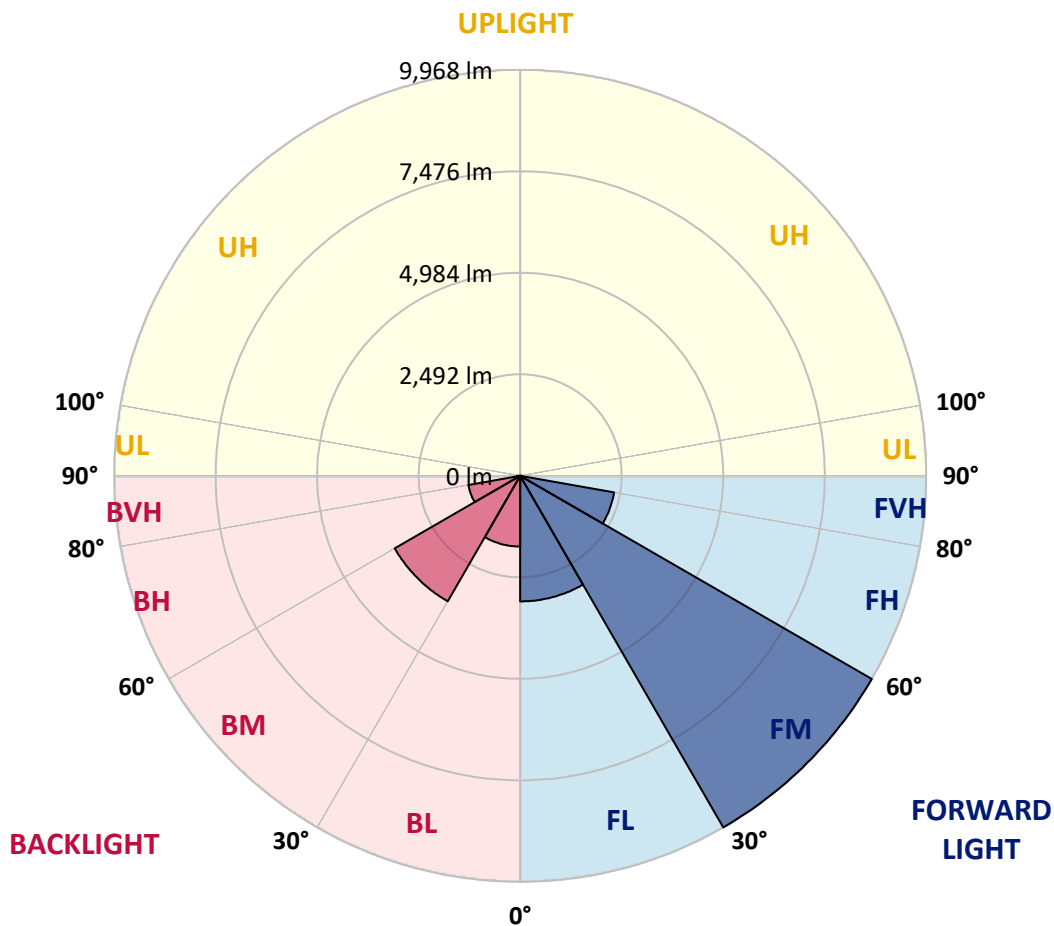
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3083.9	14.0			
FM (30°-60°)	9968.3	45.1			
FH (60°-80°)	2342.2	10.6			G2/5000
FVH (80°-90°)	42.7	0.2			G1/100
BL (0°-30°)	1737.3	7.9	B3/2500		
BM (30°-60°)	3558.1	16.1	B3/5000		
BH (60°-80°)	1291.3	5.8	B3/2500		G3/2500
BVH (80°-90°)	75.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9807.7	9807.7	9807.7	9807.7	9807.7	9807.7	9807.7	9807.7	9807.7	9807.7	9807.7
2.5°	9971.0	10131.2	9958.2	9650.7	9432.9	9234.3	9026.1	8984.5	8712.2	8664.2	8465.6
5°	9404.1	9368.9	9157.5	8753.9	8308.7	7905.1	7607.2	7318.9	7123.5	6896.1	6880.1
7.5°	8715.4	8510.4	8388.7	7777.0	7226.0	6591.8	6319.6	5880.8	5743.0	5538.0	5432.3
10°	8100.5	7949.9	7664.8	7053.1	6284.3	5864.7	5573.3	5336.2	5176.1	4964.7	4698.8
12.5°	7796.2	7735.3	7415.0	6466.9	5896.8	5448.4	5243.4	5012.7	4740.5	4401.0	4269.6
15°	7850.6	7645.6	7402.2	6354.8	5566.9	5134.5	4807.7	4519.5	4170.3	3846.8	3657.9
17.5°	8257.4	8100.5	7613.6	6425.3	5441.9	4817.4	4224.8	3798.8	3484.9	3193.4	3062.1
20°	9058.2	8830.7	8283.0	6515.0	5172.9	4375.3	3696.3	3171.0	2834.7	2680.9	2636.1
22.5°	9945.4	9810.9	8936.4	6716.7	4958.3	3965.3	3135.8	2610.5	2485.5	2443.9	2527.2
25°	11024.8	10675.7	9951.8	7046.7	4791.7	3616.2	2661.7	2370.2	2306.2	2347.8	2443.9
27.5°	11844.8	11751.9	10662.9	7357.4	4564.3	3196.6	2395.9	2203.7	2222.9	2264.5	2354.2
30°	12818.5	12347.7	11351.5	7572.0	4359.3	2908.3	2210.1	2158.8	2178.1	2248.5	2293.4
32.5°	13404.7	13228.5	11783.9	7895.5	4122.3	2658.5	2066.0	2017.9	2046.7	2152.4	2258.1
35°	14151.0	13801.8	12318.8	7978.7	3955.7	2559.2	1963.5	1928.2	1995.5	2069.2	2187.7
37.5°	15022.2	14782.0	13058.7	7921.1	3866.1	2456.7	1877.0	1861.0	1909.0	2011.5	2149.2
40°	15537.9	15464.2	13446.3	7956.3	3725.1	2367.0	1777.7	1796.9	1896.2	1976.3	2110.8
42.5°	16034.4	15553.9	14019.7	7943.5	3635.4	2245.3	1787.3	1764.9	1841.7	1934.6	2062.8
45°	16143.3	15666.0	14154.2	7853.8	3526.5	2126.8	1713.6	1723.2	1816.1	1931.4	2014.7
47.5°	16072.8	15720.5	14404.0	7828.2	3424.0	2043.5	1604.7	1720.0	1774.5	1867.4	1985.9
50°	16024.7	16005.5	14615.4	7949.9	3286.3	1912.2	1473.4	1678.4	1732.8	1825.7	1953.8
52.5°	16447.5	16405.9	15143.9	8270.2	3177.4	1771.3	1338.9	1572.7	1704.0	1793.7	1918.6
55°	16703.8	16521.2	16050.4	8664.2	2994.8	1585.5	1246.0	1441.4	1633.5	1713.6	1841.7
57.5°	15025.4	14900.5	14519.3	8087.6	2687.3	1342.1	1130.7	1306.8	1537.5	1662.4	1793.7
60°	12501.4	12306.0	11329.1	6873.7	1982.7	1044.2	1060.2	1201.1	1511.8	1559.9	1713.6
62.5°	11787.1	11303.5	9974.2	5531.6	1521.4	896.8	951.3	1105.0	1377.3	1457.4	1611.1
65°	9352.8	8994.1	7136.3	3994.2	1018.6	778.3	868.0	996.1	1188.3	1345.3	1486.2
67.5°	5855.1	5512.4	3808.4	1889.8	711.1	666.2	775.1	909.7	1066.6	1207.5	1364.5
70°	3058.9	2684.1	1758.5	682.2	490.1	544.5	647.0	775.1	928.9	1044.2	1165.9
72.5°	1140.3	925.7	573.3	294.7	339.5	416.4	525.3	618.2	727.1	868.0	935.3
75°	176.2	150.5	147.3	179.4	230.6	301.1	374.8	467.6	563.7	653.4	698.3
77.5°	83.3	80.1	89.7	118.5	153.7	214.6	272.3	361.9	438.8	496.5	522.1
80°	54.5	51.2	57.7	80.1	115.3	160.2	217.8	278.7	349.1	397.2	390.8
82.5°	32.0	35.2	35.2	54.5	80.1	115.3	156.9	211.4	259.4	301.1	275.5
85°	19.2	16.0	16.0	32.0	54.5	92.9	131.3	89.7	92.9	92.9	105.7
87.5°	6.4	6.4	6.4	3.2	6.4	6.4	9.6	16.0	19.2	22.4	28.8
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°	9807.7	9807.7	9807.7	9807.7	9807.7	9807.7	9807.7	9807.7	9807.7	9807.7	9807.7
2.5°	8459.2	8558.5	8523.3	8398.3	8494.4	8510.4	8446.4	8667.4	8709.0	8641.8	8661.0
5°	6857.7	6883.3	6941.0	7062.7	7149.2	7251.7	7251.7	7258.1	7171.6	7389.4	7325.3
7.5°	5342.7	5358.7	5425.9	5685.4	5759.0	5954.4	6037.7	5980.1	5807.1	5733.4	5794.3
10°	4612.4	4519.5	4497.1	4529.1	4695.6	4778.9	4849.4	4830.2	4801.3	4743.7	4679.6
12.5°	4125.5	4058.2	4003.8	3926.9	3936.5	4016.6	4071.0	4026.2	4039.0	4051.8	4071.0
15°	3597.0	3549.0	3520.1	3404.8	3392.0	3446.5	3465.7	3491.3	3539.3	3542.5	3520.1
17.5°	3036.5	2994.8	3058.9	3123.0	3078.1	3081.3	3116.5	3139.0	3126.2	3068.5	3039.7
20°	2652.1	2696.9	2761.0	2821.9	2869.9	2898.7	2911.6	2876.3	2834.7	2716.2	2713.0
22.5°	2540.0	2597.7	2652.1	2745.0	2789.8	2863.5	2796.2	2716.2	2658.5	2600.9	2533.6
25°	2456.7	2504.8	2613.7	2648.9	2735.4	2796.2	2748.2	2668.1	2568.8	2485.5	2434.3
27.5°	2395.9	2450.3	2520.8	2616.9	2684.1	2719.4	2671.3	2639.3	2536.8	2437.5	2363.8
30°	2357.4	2415.1	2543.2	2623.3	2680.9	2709.8	2626.5	2588.0	2514.4	2431.1	2367.0
32.5°	2331.8	2383.1	2492.0	2594.5	2632.9	2632.9	2645.7	2600.9	2498.4	2357.4	2303.0
35°	2248.5	2319.0	2408.7	2527.2	2597.7	2639.3	2575.2	2524.0	2456.7	2312.6	2213.3
37.5°	2200.5	2248.5	2363.8	2475.9	2536.8	2581.6	2556.0	2466.3	2376.6	2258.1	2178.1
40°	2149.2	2226.1	2328.6	2434.3	2501.6	2546.4	2527.2	2421.5	2312.6	2200.5	2146.0
42.5°	2114.0	2165.2	2270.9	2389.5	2469.5	2556.0	2498.4	2367.0	2290.2	2136.4	2075.6
45°	2085.2	2168.5	2280.6	2328.6	2411.9	2501.6	2399.1	2319.0	2229.3	2117.2	2066.0
47.5°	2049.9	2126.8	2200.5	2328.6	2367.0	2408.7	2389.5	2261.3	2184.5	2062.8	2027.5
50°	2037.1	2066.0	2200.5	2270.9	2325.4	2367.0	2315.8	2219.7	2146.0	2021.1	1944.2
52.5°	1985.9	2040.3	2126.8	2219.7	2287.0	2338.2	2254.9	2194.1	2094.8	1963.5	1915.4
55°	1921.8	1953.8	2107.6	2203.7	2238.9	2274.1	2242.1	2142.8	2040.3	1905.8	1857.8
57.5°	1838.5	1912.2	2037.1	2171.7	2216.5	2235.7	2184.5	2104.4	1976.3	1857.8	1780.9
60°	1752.1	1828.9	1966.7	2075.6	2120.4	2190.9	2114.0	2066.0	1918.6	1787.3	1704.0
62.5°	1665.6	1752.1	1854.6	1992.3	2030.7	2059.5	2040.3	1973.1	1854.6	1707.2	1604.7
65°	1563.1	1627.1	1755.3	1825.7	1851.4	1918.6	1851.4	1825.7	1720.0	1579.1	1492.6
67.5°	1409.3	1463.8	1575.9	1643.2	1662.4	1691.2	1688.0	1659.2	1540.7	1444.6	1367.7
70°	1233.2	1281.2	1351.7	1431.8	1441.4	1476.6	1444.6	1438.2	1361.3	1230.0	1188.3
72.5°	989.7	1034.6	1127.5	1162.7	1165.9	1178.7	1162.7	1140.3	1121.1	983.3	941.7
75°	759.1	784.7	829.6	861.6	861.6	877.6	868.0	845.6	794.4	707.9	666.2
77.5°	528.5	554.1	611.8	631.0	627.8	634.2	605.4	583.0	506.1	461.2	426.0
80°	384.4	400.4	429.2	442.0	445.2	454.8	419.6	400.4	355.5	304.3	288.3
82.5°	278.7	288.3	291.5	307.5	307.5	291.5	281.9	262.6	230.6	198.6	185.8
85°	115.3	118.5	121.7	140.9	144.1	173.0	160.2	150.5	131.3	112.1	102.5
87.5°	28.8	32.0	41.6	35.2	41.6	41.6	44.8	51.2	51.2	41.6	41.6
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9807.7	9807.7	9807.7	9807.7	9807.7	9807.7	9807.7	9807.7	9807.7	9807.7	9807.7
2.5°	8734.7	8760.3	9087.0	9128.6	9288.8	9452.1	9782.0	10019.1	10211.3	10336.2	10371.4
5°	7392.6	7555.9	7706.5	7949.9	8170.9	8484.8	8846.8	9295.2	9858.9	10147.2	10262.5
7.5°	5787.9	5980.1	6197.9	6434.9	6758.4	7322.1	7805.8	8324.7	9045.4	9343.2	9794.9
10°	4724.5	4939.1	5227.3	5409.9	5800.7	6338.8	6902.5	7501.5	8190.1	8619.3	9141.4
12.5°	4176.7	4352.9	4618.8	5003.1	5294.6	5643.7	6063.3	6819.2	7805.8	8212.6	8571.3
15°	3571.4	3766.8	4074.3	4500.3	4849.4	5265.8	5736.6	6559.8	7610.4	8238.2	8542.5
17.5°	3071.7	3212.6	3536.1	3904.5	4304.9	4759.7	5435.5	6547.0	7815.4	8619.3	9115.8
20°	2725.8	2745.0	2921.2	3235.1	3779.6	4372.1	5249.8	6482.9	8472.0	9276.0	9903.8
22.5°	2508.0	2488.8	2492.0	2757.8	3139.0	3991.0	4958.3	6700.7	9218.3	10320.2	10743.0
25°	2399.1	2347.8	2315.8	2373.4	2719.4	3539.3	4737.3	6989.0	10022.3	11181.8	11700.7
27.5°	2341.4	2251.7	2187.7	2197.3	2450.3	3311.9	4599.5	7113.9	10819.8	12382.9	12565.5
30°	2319.0	2206.9	2114.0	2082.0	2248.5	2994.8	4304.9	7328.5	11534.1	13042.7	13199.7
32.5°	2238.9	2101.2	2011.5	1982.7	2049.9	2716.2	4093.5	7482.3	12165.1	13760.2	13705.8
35°	2146.0	2030.7	1918.6	1864.2	1912.2	2536.8	3923.7	7408.6	12908.2	14317.5	14288.7
37.5°	2136.4	1985.9	1893.0	1803.3	1800.1	2315.8	3693.1	7479.1	13382.3	15316.9	14922.9
40°	2053.1	1957.1	1835.3	1761.7	1720.0	2203.7	3468.9	7312.5	14077.3	15720.5	15332.9
42.5°	2056.3	1912.2	1806.5	1720.0	1678.4	2040.3	3315.1	7267.7	14320.7	16377.1	15525.1
45°	2005.1	1864.2	1774.5	1672.0	1649.6	1915.4	3167.8	7059.5	14749.9	16409.1	15284.9
47.5°	1953.8	1828.9	1732.8	1611.1	1559.9	1870.6	3052.5	6886.5	14525.7	16108.0	14951.7
50°	1918.6	1774.5	1684.8	1598.3	1454.2	1793.7	2901.9	6844.9	14211.8	15701.2	14333.6
52.5°	1857.8	1729.6	1636.7	1569.5	1338.9	1723.2	2844.3	7088.3	14596.2	15397.0	14154.2
55°	1800.1	1668.8	1550.3	1418.9	1242.8	1537.5	2684.1	7315.7	15156.7	16098.4	14967.8
57.5°	1739.2	1614.3	1486.2	1329.3	1149.9	1345.3	2517.6	7357.4	14106.1	14878.1	14208.6
60°	1659.2	1499.0	1402.9	1197.9	1050.6	1114.7	1995.5	6486.1	10941.5	12424.5	12447.0
62.5°	1569.5	1396.5	1313.2	1073.0	948.1	960.9	1627.1	5451.6	8875.6	10284.9	10896.7
65°	1451.0	1284.4	1185.1	992.9	874.4	832.8	1191.5	3994.2	6742.4	8343.9	9038.9
67.5°	1297.2	1140.3	1015.4	864.8	781.5	714.3	813.6	2248.5	3981.4	5602.1	5813.5
70°	1133.9	999.3	868.0	743.1	650.2	602.2	595.8	996.1	1902.6	3014.0	3430.4
72.5°	893.6	797.6	691.9	599.0	538.1	467.6	426.0	413.2	643.8	1226.8	1694.4
75°	640.6	560.5	499.7	438.8	394.0	355.5	323.5	294.7	269.1	307.5	422.8
77.5°	403.6	374.8	326.7	310.7	285.1	275.5	262.6	246.6	227.4	214.6	214.6
80°	272.3	253.0	237.0	233.8	224.2	221.0	224.2	208.2	189.0	173.0	179.4
82.5°	182.6	179.4	176.2	173.0	176.2	179.4	185.8	182.6	166.6	156.9	160.2
85°	108.9	115.3	121.7	128.1	140.9	124.9	102.5	86.5	76.9	70.5	67.3
87.5°	41.6	57.7	51.2	48.0	51.2	48.0	44.8	41.6	35.2	32.0	32.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9807.7	9807.7	9807.7	9807.7	9807.7	9807.7	9807.7	9807.7	9807.7	9807.7
2.5°	10605.2	10669.3	10723.7	10710.9	10598.8	10448.3	10387.4	10076.7	10012.7	9971.0
5°	10749.4	11120.9	11201.0	11152.9	10861.5	10493.1	10134.4	9679.6	9413.7	9404.1
7.5°	10483.5	10941.5	11085.7	11194.6	10807.0	10166.4	9551.4	8869.2	8702.6	8715.4
10°	9807.7	10538.0	10893.5	11005.6	10560.4	10006.3	9154.3	8462.4	8106.9	8100.5
12.5°	9432.9	10006.3	10105.6	10262.5	10131.2	9570.6	8923.6	8148.5	7802.6	7796.2
15°	9099.8	9477.8	9506.6	9727.6	9798.1	9420.1	8984.5	8158.1	7879.4	7850.6
17.5°	9391.3	9128.6	9019.7	9048.6	9256.8	9394.5	9336.8	8702.6	8417.6	8257.4
20°	9586.7	9000.5	8670.6	8702.6	8949.3	9452.1	9862.1	9490.6	9038.9	9058.2
22.5°	10108.8	9019.7	8504.0	8468.8	8859.6	9753.2	10454.7	10486.7	10051.1	9945.4
25°	10890.3	9240.7	8452.8	8443.2	8817.9	10076.7	11146.5	11665.4	11220.2	11024.8
27.5°	11518.1	9586.7	8612.9	8645.0	8949.3	10339.4	11735.9	12424.5	12085.0	11844.8
30°	12069.0	9945.4	8837.2	8689.8	9301.6	10477.1	11988.9	13289.4	13017.1	12818.5
32.5°	12296.4	10454.7	9192.7	8949.3	9593.1	10643.7	12514.2	14128.6	13894.7	13404.7
35°	12680.8	10739.8	9384.9	9365.7	10102.4	11044.0	12760.9	14682.7	14586.6	14151.0
37.5°	12988.3	11028.0	10067.1	9855.7	10800.6	11716.7	13158.0	15448.2	15227.2	15022.2
40°	13225.3	11543.7	10704.5	10983.2	11659.0	12328.5	13523.2	15496.2	16133.7	15537.9
42.5°	13007.5	12004.9	11751.9	12418.1	13058.7	13026.7	13564.8	15867.8	16345.1	16034.4
45°	12953.0	12786.5	13407.9	14013.2	14160.6	13606.5	13266.9	15457.8	16281.0	16143.3
47.5°	12821.7	13555.2	14637.8	15624.4	15400.2	13994.0	12911.4	15384.1	16319.4	16072.8
50°	12776.9	13721.8	15547.5	16508.4	16373.9	14330.3	12744.8	14910.1	16047.2	16024.7
52.5°	12773.7	14064.5	15925.5	16988.9	17072.1	14862.1	12972.3	15150.3	16258.6	16447.5
55°	12917.8	13955.6	15877.4	16723.0	16691.0	14625.0	12997.9	15310.5	16518.0	16703.8
57.5°	12184.3	12501.4	13103.6	13773.0	13600.1	12113.9	11607.8	14154.2	15159.9	15025.4
60°	10521.9	9529.0	8850.0	8817.9	8481.6	8017.2	9500.2	12632.7	12632.7	12501.4
62.5°	9215.1	6255.5	5374.7	5124.8	5365.1	5900.0	9163.9	12286.8	11937.7	11787.1
65°	8058.8	4775.7	3885.3	3814.8	4231.2	5038.4	8286.2	10467.5	9852.5	9352.8
67.5°	5185.7	3497.7	2889.1	2764.2	3267.1	3699.5	5515.6	6438.1	6050.5	5855.1
70°	3344.0	2277.4	1607.9	1508.6	1704.0	2280.6	3523.3	3753.9	3190.2	3058.9
72.5°	1582.3	983.3	563.7	464.4	522.1	871.2	1393.3	1499.0	1246.0	1140.3
75°	502.9	361.9	230.6	198.6	189.0	224.2	320.3	246.6	179.4	176.2
77.5°	224.2	214.6	182.6	153.7	134.5	112.1	92.9	76.9	80.1	83.3
80°	185.8	169.8	150.5	134.5	112.1	86.5	67.3	51.2	51.2	54.5
82.5°	163.4	147.3	131.3	112.1	96.1	70.5	51.2	35.2	32.0	32.0
85°	70.5	83.3	89.7	96.1	76.9	57.7	35.2	22.4	19.2	19.2
87.5°	28.8	25.6	22.4	19.2	16.0	16.0	12.8	9.6	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)