

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: P531876

Luminaire Tested: **GALN-SA7B-722-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-722-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21699 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

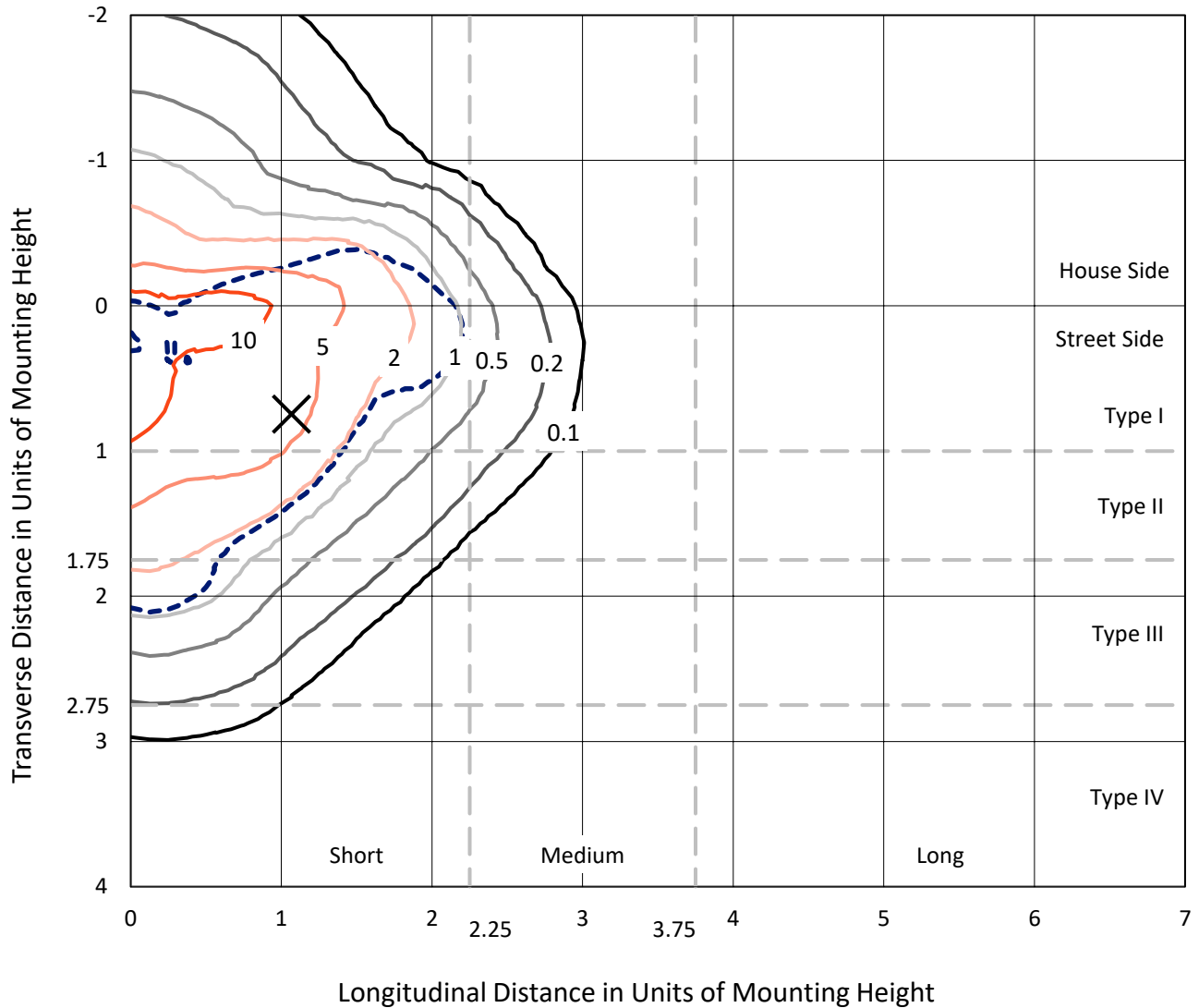
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

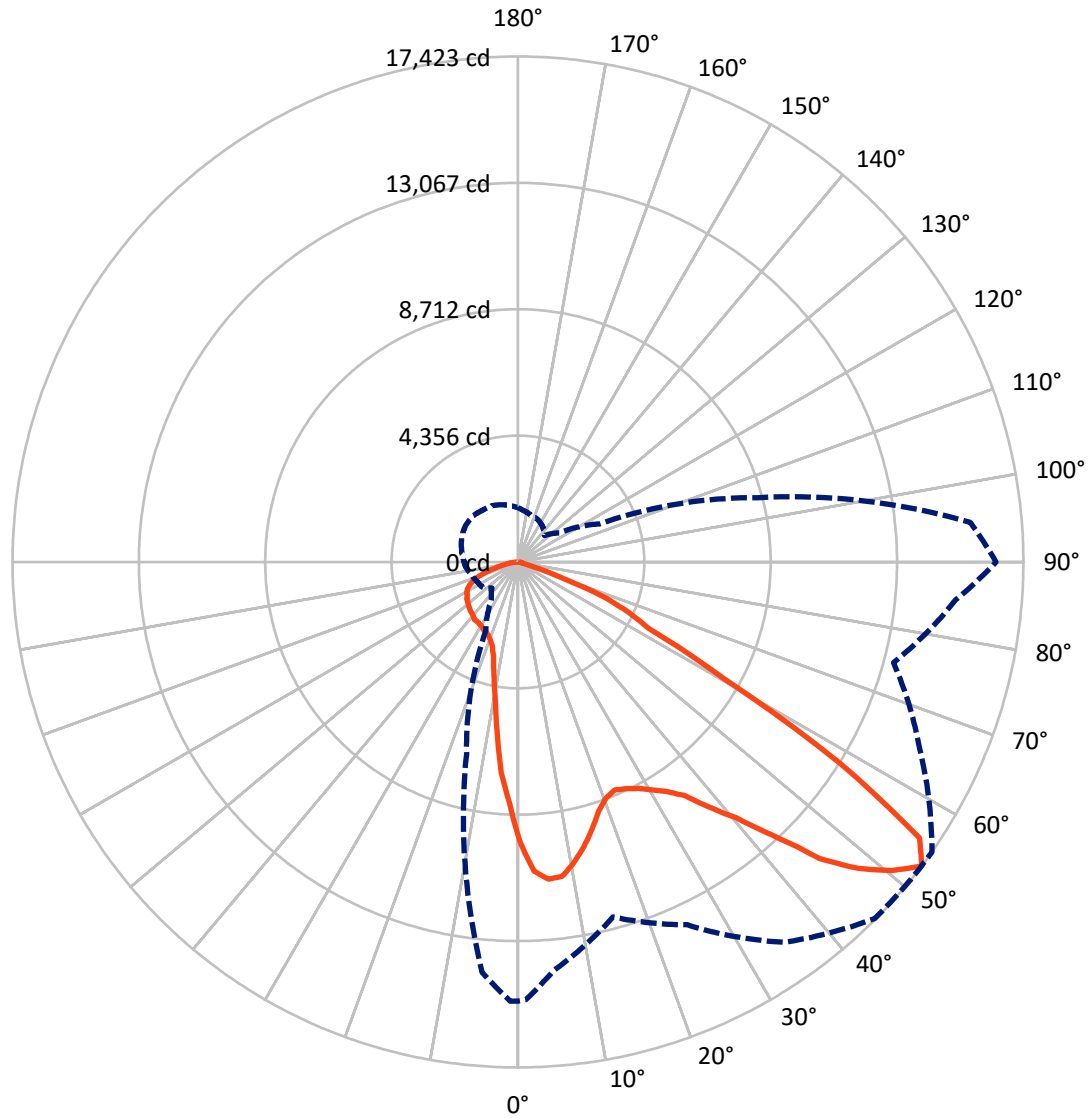
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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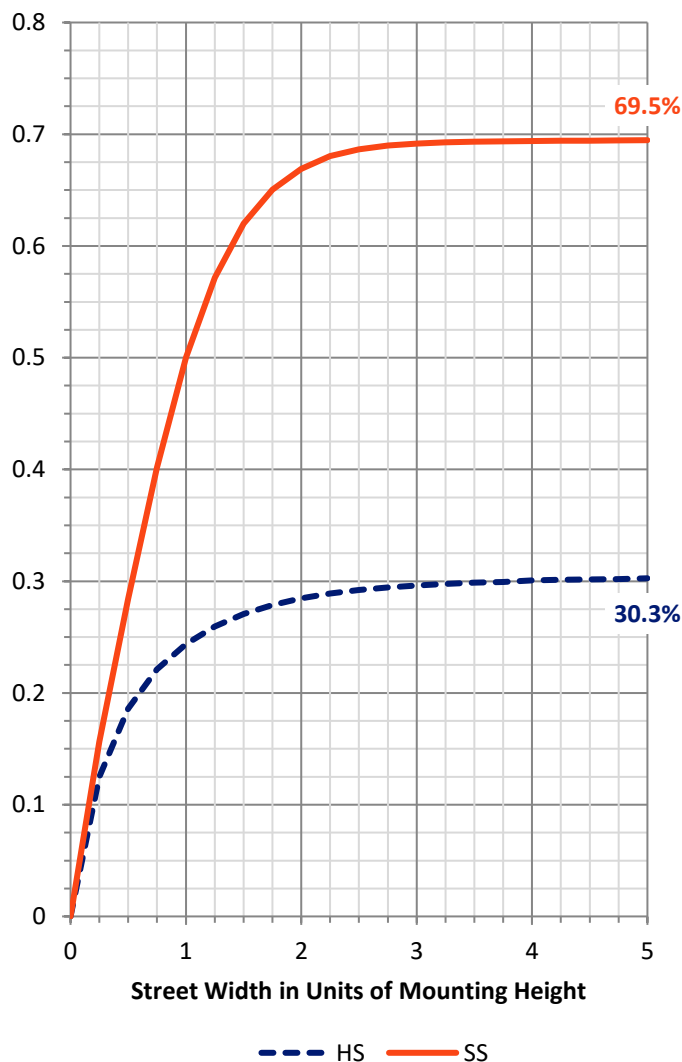
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6619.4	0.0	6619.4
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	15079.6	0.0	15079.6
	% Fixture	69.5	0.0	69.5
Total	Lumens	21699.0	0.0	21699.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	739.5	3.4
10°-20°	1594.4	7.3
20°-30°	2417.7	11.1
30°-40°	3493.2	16.1
40°-50°	4667.9	21.5
50°-60°	5210.4	24.0
60°-70°	2858.1	13.2
70°-80°	617.9	2.8
80°-90°	100.0	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°	21699.0	100.0
0°-180°	21699.0	100.0

Coefficient of Utilization



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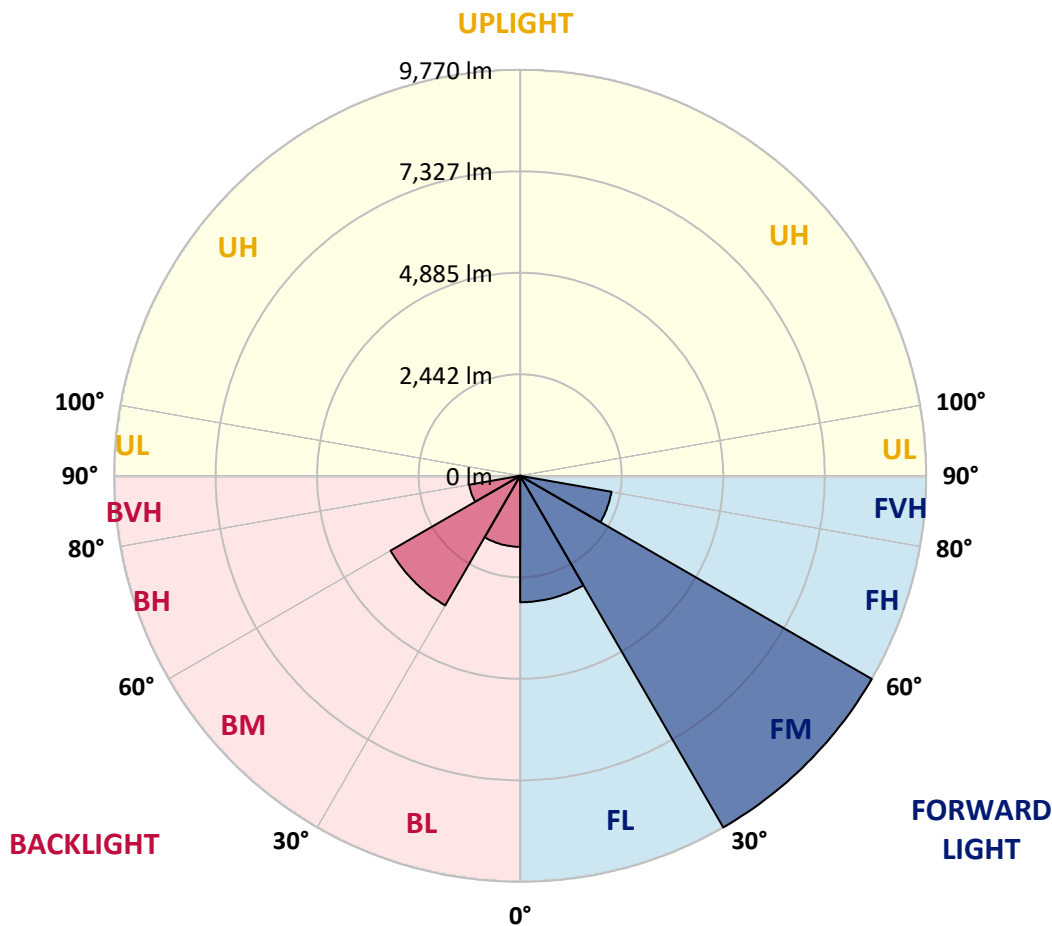
CATALOG NUMBER: GALN-SA7B-722-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3042.6	14.0			
FM (30°-60°)	9769.9	45.0			
FH (60°-80°)	2230.1	10.3			G2/5000
FVH (80°-90°)	37.0	0.2			G1/100
BL (0°-30°)	1709.0	7.9	B3/2500		
BM (30°-60°)	3601.5	16.6	B3/5000		
BH (60°-80°)	1245.9	5.7	B3/2500		G3/2500
BVH (80°-90°)	63.0	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9679.4	9679.4	9679.4	9679.4	9679.4	9679.4	9679.4	9679.4	9679.4	9679.4	9679.4
2.5°	10157.9	10100.8	10151.5	10392.3	10531.7	10626.8	10687.0	10677.5	10449.4	10227.6	10227.6
5°	9860.0	9787.2	9891.7	10436.7	10984.8	11032.3	11111.5	10981.6	10645.8	10240.2	9733.3
7.5°	8998.2	9052.1	9226.4	9942.4	10655.3	11013.3	11108.4	10943.6	10398.7	9641.4	8896.8
10°	8253.7	8380.4	8782.8	9555.9	10211.7	10677.5	10782.0	10550.7	10119.8	9191.5	8526.1
12.5°	7997.0	7917.8	8364.6	9137.6	9765.0	10015.3	10062.8	10078.6	9787.2	8963.4	8152.3
15°	7965.3	8016.0	8364.6	8950.7	9337.2	9349.9	9429.1	9552.7	9590.7	9118.6	8326.5
17.5°	8421.6	8361.4	8719.4	9185.2	9001.4	8817.6	8836.6	9014.1	9327.7	9251.7	8874.7
20°	9096.4	9232.7	9514.7	9467.2	8972.9	8507.1	8510.3	8678.2	9296.1	9803.0	9638.2
22.5°	10218.1	10351.1	10560.2	9986.8	8972.9	8415.2	8307.5	8535.6	9498.8	10458.9	10500.0
25°	11241.4	11485.4	11542.4	10867.6	9422.8	8500.8	8431.1	8656.0	9701.6	11098.9	11488.6
27.5°	12173.0	12261.7	12512.0	11434.7	9673.1	8557.8	8551.5	8839.8	9958.3	11418.9	12372.6
30°	12908.0	12898.5	13041.1	11792.7	10072.3	8877.8	8570.5	9115.5	10294.1	11948.0	13190.0
32.5°	13408.6	13516.4	13817.4	12290.2	10240.2	9182.0	8941.2	9438.6	10702.8	12198.3	13766.7
35°	14289.4	14476.4	14096.2	12565.8	10772.5	9483.0	9201.0	9879.0	10905.6	12470.8	14473.2
37.5°	15119.6	14977.0	14590.4	12714.8	11117.9	10040.6	9777.7	10731.3	11536.1	13063.3	14942.1
40°	15651.8	15648.7	14961.1	12835.1	11361.8	10892.9	10877.1	11596.3	12309.2	13437.1	15468.1
42.5°	15883.1	16104.9	15113.2	12822.5	11875.1	11925.8	12245.8	12889.0	12857.3	13513.2	15455.4
44°	16200.0	16333.1	15376.2	12851.0	12217.3	12622.9	13376.9	13785.7	13335.8	13472.0	15439.6
45°	16187.3	16196.8	15002.3	12889.0	12508.8	13205.9	13880.7	14571.4	13757.2	13383.3	15648.7
47.5°	15816.6	15708.9	14685.5	12607.0	13418.1	14745.7	15369.9	15788.1	14276.8	13193.2	15388.9
50°	15084.7	14961.1	13915.6	12486.6	13608.2	15702.5	16564.3	16716.4	14748.9	13006.2	15132.2
52.5°	15135.4	15100.5	14134.2	12667.2	13798.3	16003.5	17385.0	17423.0	15284.3	13399.1	15135.4
55°	16041.6	15921.2	14761.5	12892.2	13658.9	15651.8	16862.2	16795.6	15103.7	13161.5	15414.2
57.5°	14679.2	14758.4	13893.4	12001.9	11954.3	12724.3	13256.5	13091.8	12603.9	11878.3	14340.1
60°	11843.4	12068.4	12150.8	10037.5	9020.4	8624.4	8465.9	8174.4	8256.8	9758.6	12597.5
62.5°	10157.9	10145.2	10661.6	9099.6	5909.0	5082.1	5006.1	5072.6	6023.1	9606.6	12337.7
65°	8054.0	8269.5	8427.9	7711.9	4676.5	3773.6	3770.4	4191.8	5212.0	8028.7	9961.4
67.5°	5113.8	5395.8	5592.2	4933.2	3127.2	2686.8	2613.9	3120.9	3612.0	5265.9	5997.8
70°	2883.2	3016.3	3105.0	2845.2	1989.7	1394.1	1311.7	1432.1	2183.0	3409.2	3554.9
72.5°	1112.1	1172.3	1292.7	1302.2	750.9	449.9	364.4	437.2	918.8	1349.7	1286.4
75°	171.1	183.8	259.8	310.5	215.5	164.8	174.3	180.6	256.6	348.5	291.5
77.5°	82.4	82.4	79.2	91.9	107.7	117.2	126.7	139.4	152.1	167.9	161.6
80°	53.9	53.9	53.9	63.4	79.2	95.1	107.7	114.1	120.4	133.1	126.7
82.5°	34.9	34.9	34.9	47.5	63.4	79.2	85.5	101.4	114.1	133.1	123.6
85°	19.0	19.0	19.0	31.7	47.5	66.5	63.4	50.7	28.5	3.2	6.3
87.5°	6.3	6.3	6.3	6.3	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9679.4	9679.4	9679.4	9679.4	9679.4	9679.4	9679.4	9679.4	9679.4	9679.4	9679.4
2.5°	9961.4	9815.7	9803.0	9505.2	9239.0	9109.1	9004.6	8713.1	8776.4	8608.5	8605.3
5°	9479.8	9182.0	8700.4	8304.4	7908.3	7829.1	7483.7	7182.7	7192.2	6976.8	7014.8
7.5°	8614.9	8408.9	7822.8	7201.8	6675.8	6301.9	5975.6	5779.1	5528.8	5443.3	5398.9
10°	8066.7	7813.3	7154.2	6374.8	5785.5	5585.9	5272.2	5097.9	4841.3	4714.6	4625.8
12.5°	7825.9	7455.2	6631.4	5839.3	5446.5	5240.5	4974.4	4657.5	4353.4	4236.1	4074.5
15°	7851.3	7407.7	6479.4	5623.9	5151.8	4752.6	4515.0	4163.3	3852.8	3646.8	3529.6
17.5°	8234.6	7696.0	6549.1	5459.1	4781.1	4280.5	3814.7	3434.5	3187.4	3032.1	2994.1
20°	9140.8	8408.9	6666.3	5193.0	4410.4	3786.2	3212.7	2816.7	2626.6	2623.4	2626.6
22.5°	9894.9	9169.3	6903.9	5034.6	4039.7	3152.5	2582.2	2455.5	2417.5	2496.7	2506.2
25°	10911.9	10024.8	7312.6	4952.2	3697.5	2686.8	2335.1	2287.6	2284.4	2385.8	2389.0
27.5°	11954.3	10772.5	7556.6	4711.4	3349.0	2446.0	2186.2	2176.7	2227.4	2335.1	2325.6
30°	12664.1	11399.9	7997.0	4423.1	2937.1	2233.7	2126.0	2138.7	2208.4	2290.7	2303.4
32.5°	13491.0	12017.7	8111.1	4264.7	2683.6	2056.3	1980.2	2008.8	2097.5	2227.4	2297.1
35°	14438.4	12454.9	8285.3	4049.2	2588.6	1920.0	1882.0	1913.7	2021.4	2107.0	2183.0
37.5°	15138.6	13228.0	8317.0	3881.3	2484.0	1844.0	1783.8	1888.4	1951.7	2072.1	2110.1
40°	15658.2	13788.8	8399.4	3776.7	2401.6	1745.8	1745.8	1815.5	1901.0	2011.9	2088.0
42.5°	15990.9	14197.6	8459.6	3681.7	2243.2	1717.3	1701.4	1771.1	1885.2	1992.9	2027.8
44°	16193.6	14371.8	8399.4	3593.0	2198.9	1682.4	1682.4	1742.6	1831.3	1958.1	1999.3
45°	16244.3	14590.4	8266.3	3589.8	2145.0	1641.2	1634.9	1749.0	1809.2	1964.4	1989.7
47.5°	16440.8	14859.8	8282.2	3488.4	2015.1	1543.0	1653.9	1704.6	1758.5	1894.7	1980.2
50°	16434.4	15027.7	8247.3	3339.5	1920.0	1432.1	1615.9	1672.9	1726.8	1866.2	1901.0
52.5°	16478.8	15655.0	8567.3	3101.9	1749.0	1289.5	1489.1	1615.9	1682.4	1799.6	1872.5
55°	16456.6	16013.0	8884.2	2924.4	1508.2	1204.0	1381.4	1530.3	1625.4	1749.0	1783.8
57.5°	15030.8	14153.2	8222.0	2591.7	1248.3	1102.6	1229.3	1441.6	1562.0	1688.8	1733.1
60°	12280.7	10908.8	6780.4	1907.4	1026.6	1013.9	1143.8	1413.1	1463.8	1574.7	1650.7
62.5°	11349.2	9568.5	5376.8	1457.5	877.6	928.3	1055.1	1276.9	1356.1	1492.3	1562.0
65°	8881.0	6355.8	3330.0	985.4	773.1	833.3	953.7	1118.4	1248.3	1375.1	1457.5
67.5°	5259.5	3472.6	1647.6	690.7	674.9	738.2	861.8	985.4	1134.3	1273.7	1314.9
70°	2864.2	1707.8	703.4	526.0	573.5	630.5	750.9	836.5	979.0	1086.8	1156.5
72.5°	918.8	519.6	351.7	389.7	437.2	503.8	576.6	681.2	782.6	846.0	903.0
75°	221.8	218.6	250.3	272.5	316.8	367.5	427.7	481.6	560.8	621.0	671.7
77.5°	155.3	167.9	193.3	225.0	240.8	259.8	297.8	339.0	373.9	418.2	449.9
80°	120.4	129.9	148.9	164.8	180.6	196.4	215.5	231.3	253.5	282.0	297.8
82.5°	114.1	120.4	139.4	148.9	142.6	139.4	152.1	158.4	161.6	171.1	180.6
85°	9.5	0.0	6.3	22.2	53.9	79.2	85.5	85.5	82.4	88.7	88.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	12.7	9.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9679.4	9679.4	9679.4	9679.4	9679.4	9679.4	9679.4	9679.4	9679.4	9679.4	9679.4
2.5°	8567.3	8459.6	8500.8	8551.5	8478.6	8310.7	8355.0	8336.0	8507.1	8494.5	8665.5
5°	7182.7	7014.8	7033.8	7281.0	7201.8	7287.3	7116.2	7094.0	7125.7	7141.6	7170.1
7.5°	5497.2	5475.0	5665.1	5874.2	5972.4	5871.0	5703.1	5665.1	5630.2	5560.5	5718.9
10°	4486.4	4492.8	4480.1	4638.5	4749.4	4727.2	4625.8	4613.2	4546.6	4521.3	4610.0
12.5°	4004.8	3919.3	3878.1	3827.4	3913.0	3970.0	3925.6	3894.0	3897.1	3928.8	3941.5
15°	3539.1	3485.2	3396.5	3339.5	3380.7	3352.2	3336.3	3399.7	3383.8	3377.5	3453.5
17.5°	3016.3	3060.7	3054.3	2991.0	3044.8	3022.6	3019.5	2975.1	2914.9	2870.6	2895.9
20°	2671.0	2753.3	2816.7	2819.9	2848.4	2845.2	2797.7	2661.4	2617.1	2607.6	2613.9
22.5°	2547.4	2591.7	2667.8	2775.5	2775.5	2724.8	2667.8	2509.4	2468.2	2423.8	2404.8
25°	2449.2	2534.7	2632.9	2645.6	2696.3	2648.8	2556.9	2477.7	2392.1	2331.9	2331.9
27.5°	2398.5	2493.5	2566.4	2588.6	2658.3	2620.3	2525.2	2423.8	2322.4	2319.3	2265.4
30°	2376.3	2465.0	2512.5	2566.4	2598.1	2537.9	2509.4	2401.6	2300.3	2274.9	2186.2
32.5°	2309.8	2436.5	2525.2	2512.5	2537.9	2512.5	2471.3	2382.6	2268.6	2211.5	2202.0
35°	2233.7	2360.5	2455.5	2522.0	2537.9	2484.0	2458.7	2338.3	2183.0	2154.5	2056.3
37.5°	2192.5	2268.6	2385.8	2493.5	2515.7	2487.2	2401.6	2278.1	2122.8	2091.1	2005.6
40°	2141.8	2240.1	2331.9	2420.7	2487.2	2417.5	2319.3	2198.9	2129.2	2034.1	2008.8
42.5°	2103.8	2214.7	2290.7	2389.0	2465.0	2373.1	2259.1	2176.7	2078.5	2015.1	1942.2
44°	2091.1	2192.5	2243.2	2363.6	2427.0	2357.3	2262.2	2176.7	2062.6	2005.6	1942.2
45°	2046.8	2186.2	2240.1	2347.8	2401.6	2344.6	2224.2	2138.7	2056.3	1986.6	1920.0
47.5°	2002.4	2097.5	2189.4	2274.9	2312.9	2293.9	2192.5	2088.0	1989.7	1948.6	1885.2
50°	1989.7	2084.8	2170.3	2249.6	2293.9	2255.9	2164.0	2062.6	1948.6	1882.0	1828.2
52.5°	1926.4	2043.6	2138.7	2164.0	2221.0	2198.9	2129.2	2018.3	1910.5	1853.5	1809.2
55°	1834.5	1958.1	2088.0	2119.7	2202.0	2167.2	2062.6	1958.1	1866.2	1780.6	1723.6
57.5°	1799.6	1920.0	2046.8	2088.0	2138.7	2081.6	2056.3	1945.4	1799.6	1755.3	1666.6
60°	1710.9	1863.0	1967.6	2062.6	2065.8	2049.9	2005.6	1878.9	1758.5	1676.1	1612.7
62.5°	1641.2	1783.8	1866.2	1954.9	2008.8	1964.4	1920.0	1802.8	1672.9	1581.0	1508.2
65°	1539.8	1669.7	1739.4	1793.3	1853.5	1847.2	1771.1	1685.6	1549.3	1476.5	1406.8
67.5°	1384.6	1498.6	1593.7	1644.4	1682.4	1672.9	1615.9	1555.7	1416.3	1343.4	1292.7
70°	1197.7	1314.9	1375.1	1403.6	1441.6	1460.6	1416.3	1387.8	1264.2	1169.1	1121.6
72.5°	963.2	1039.2	1127.9	1153.3	1169.1	1181.8	1181.8	1156.5	1029.7	991.7	909.3
75°	709.7	769.9	836.5	836.5	865.0	868.1	874.5	858.6	763.6	712.9	693.9
77.5°	481.6	526.0	579.8	602.0	621.0	617.8	614.7	570.3	519.6	497.4	478.4
80°	313.7	358.0	383.4	411.9	430.9	427.7	434.1	402.4	380.2	342.2	348.5
82.5°	186.9	221.8	247.1	282.0	282.0	291.5	291.5	282.0	259.8	240.8	240.8
85°	88.7	117.2	133.1	155.3	167.9	171.1	152.1	129.9	107.7	98.2	107.7
87.5°	15.8	22.2	31.7	28.5	34.9	31.7	31.7	31.7	31.7	25.3	28.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9679.4	9679.4	9679.4	9679.4	9679.4	9679.4	9679.4	9679.4	9679.4	9679.4
2.5°	8602.2	8760.6	8871.5	9055.3	9372.1	9625.6	9885.4	10078.6	10100.8	10157.9
5°	7274.6	7360.2	7642.2	8009.7	8269.5	8697.2	8972.9	9473.5	9660.4	9860.0
7.5°	5680.9	5820.3	6197.4	6444.5	7014.8	7550.3	8104.7	8722.6	8969.7	8998.2
10°	4790.6	4993.4	5250.0	5646.1	5956.6	6552.2	7242.9	7930.5	8206.1	8253.7
12.5°	4207.6	4467.4	4809.6	5094.8	5392.6	5912.2	6574.4	7423.5	7781.6	7997.0
15°	3646.8	3916.1	4293.2	4689.2	4952.2	5573.2	6352.6	7309.5	7775.2	7965.3
17.5°	3070.2	3320.5	3631.0	4058.7	4587.8	5284.9	6317.8	7689.7	8199.8	8421.6
20°	2575.9	2715.3	3076.5	3516.9	4179.1	4990.2	6330.4	8250.5	8998.2	9096.4
22.5°	2382.6	2414.3	2556.9	2962.4	3688.0	4689.2	6555.4	9045.8	9894.9	10218.1
25°	2233.7	2227.4	2265.4	2537.9	3330.0	4572.0	6777.2	9777.7	10889.8	11241.4
27.5°	2151.3	2088.0	2091.1	2347.8	3076.5	4381.9	7062.3	10617.3	12017.7	12173.0
30°	2110.1	2097.5	2059.5	2164.0	2800.9	4096.7	7109.9	11444.2	12683.1	12908.0
32.5°	2084.8	1961.2	1913.7	1951.7	2541.0	3786.2	7287.3	11989.2	13506.8	13408.6
35°	1958.1	1847.2	1815.5	1853.5	2357.3	3612.0	7170.1	12464.4	14124.7	14289.4
37.5°	1910.5	1812.3	1749.0	1717.3	2186.2	3466.2	7109.9	13196.3	14723.5	15119.6
40°	1866.2	1761.6	1685.6	1653.9	2053.1	3272.9	7090.9	13760.3	15414.2	15651.8
42.5°	1815.5	1749.0	1663.4	1606.4	1891.5	3079.7	6872.2	13934.6	15626.5	15883.1
44°	1799.6	1698.3	1609.5	1590.5	1828.2	2981.5	6827.9	14093.0	15810.3	16200.0
45°	1783.8	1688.8	1587.4	1562.0	1806.0	2927.6	6767.7	14131.0	16114.4	16187.3
47.5°	1739.4	1679.2	1581.0	1511.3	1758.5	2810.4	6587.1	13915.6	15803.9	15816.6
50°	1704.6	1634.9	1533.5	1397.3	1695.1	2712.1	6669.5	13836.4	15056.2	15084.7
52.5°	1666.6	1562.0	1505.0	1270.5	1590.5	2629.8	6843.7	14194.4	15141.7	15135.4
55°	1622.2	1508.2	1368.7	1162.8	1416.3	2525.2	7265.1	14900.9	15933.8	16041.6
57.5°	1552.5	1454.3	1254.7	1067.7	1216.7	2325.6	7128.9	13548.0	14660.1	14679.2
60°	1460.6	1368.7	1137.5	994.9	998.0	1834.5	6374.8	10557.1	11567.8	11843.4
62.5°	1371.9	1321.2	1039.2	890.3	849.1	1460.6	5389.4	8773.3	9929.7	10157.9
65°	1267.4	1143.8	953.7	811.1	728.7	1023.4	3817.9	6555.4	7746.7	8054.0
67.5°	1134.3	1001.2	839.6	712.9	624.2	684.4	1970.7	3726.0	4933.2	5113.8
70°	991.7	868.1	706.6	602.0	503.8	472.1	868.1	1777.5	2696.3	2883.2
72.5°	814.3	700.2	564.0	475.3	377.0	326.3	291.5	475.3	956.9	1112.1
75°	589.3	510.1	424.6	339.0	266.1	209.1	171.1	142.6	158.4	171.1
77.5°	434.1	370.7	313.7	240.8	186.9	148.9	117.2	88.7	85.5	82.4
80°	339.0	301.0	250.3	193.3	145.7	110.9	82.4	60.2	53.9	53.9
82.5°	266.1	247.1	205.9	158.4	120.4	88.7	60.2	41.2	34.9	34.9
85°	101.4	101.4	148.9	129.9	91.9	63.4	41.2	22.2	19.0	19.0
87.5°	25.3	25.3	25.3	25.3	22.2	19.0	19.0	9.5	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)