

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: P652505

Luminaire Tested: **GALN-SA7B-840-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652505
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-840-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 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: 24823.8 lumens
Efficiency: N/A
Efficacy: 86.8 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

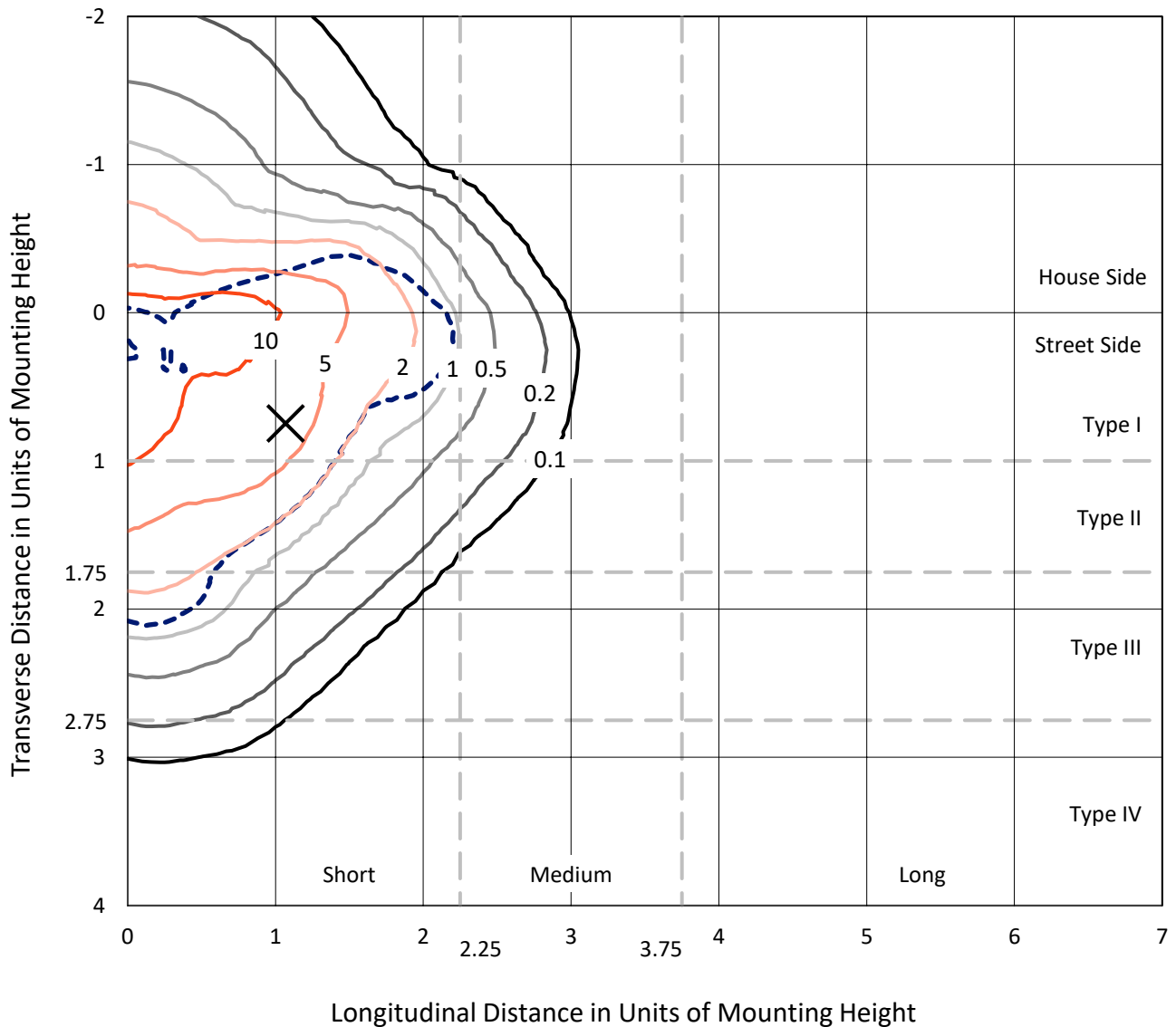
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

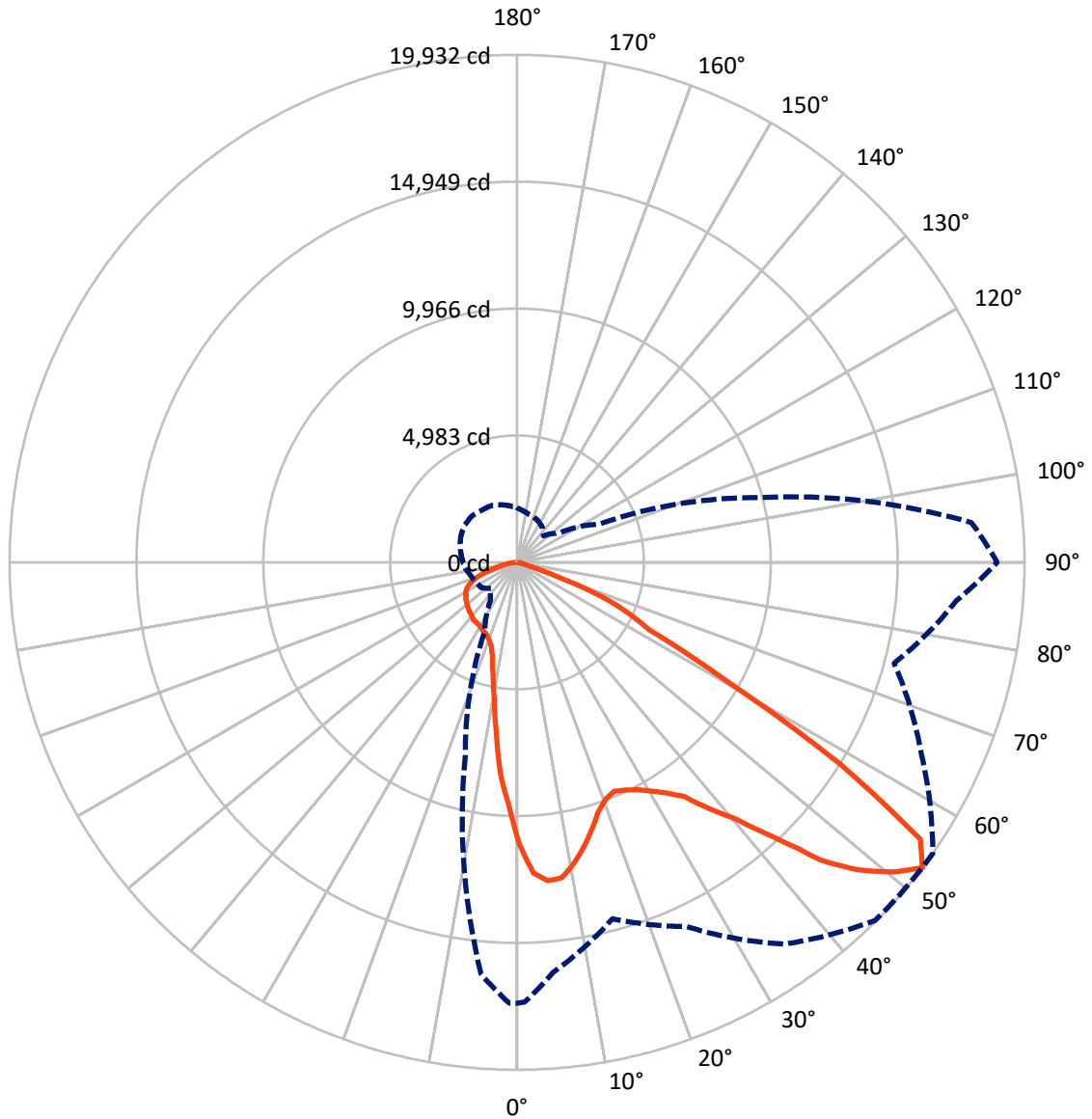
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 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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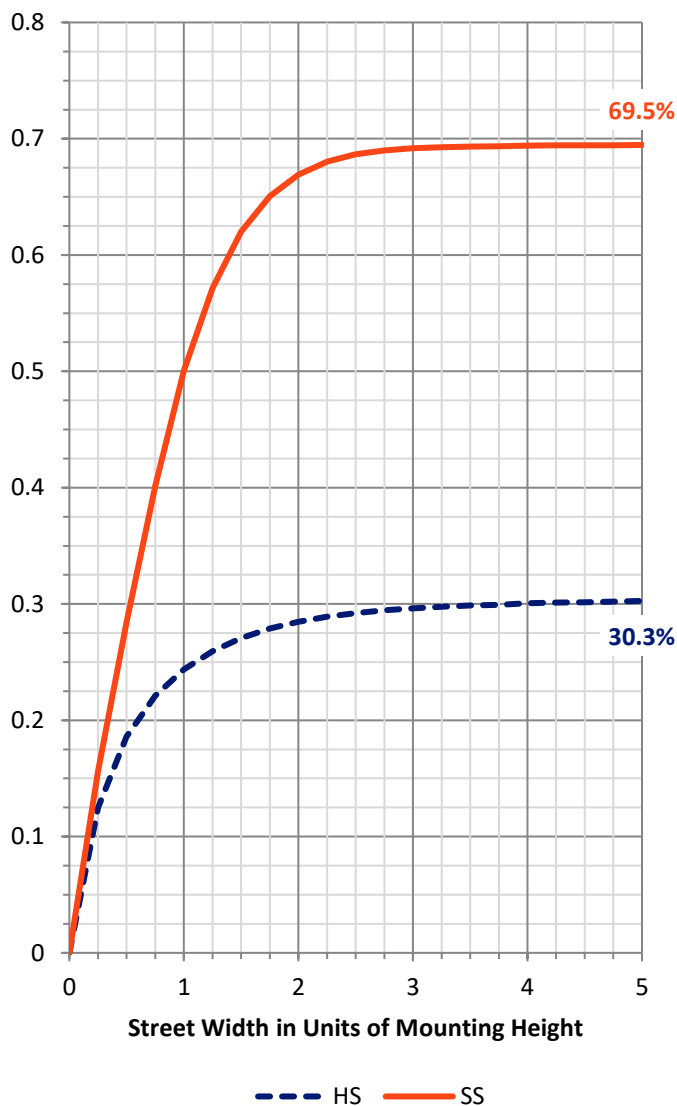
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7572.6	0.0	7572.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	17251.2	0.0	17251.2
	% Fixture	69.5	0.0	69.5
Total	Lumens	24823.8	0.0	24823.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	846.0	3.4
10°-20°	1824.0	7.3
20°-30°	2765.9	11.1
30°-40°	3996.2	16.1
40°-50°	5340.1	21.5
50°-60°	5960.7	24.0
60°-70°	3269.7	13.2
70°-80°	706.9	2.8
80°-90°	114.4	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°	24823.8	100.0
0°-180°	24823.8	100.0

Coefficient of Utilization

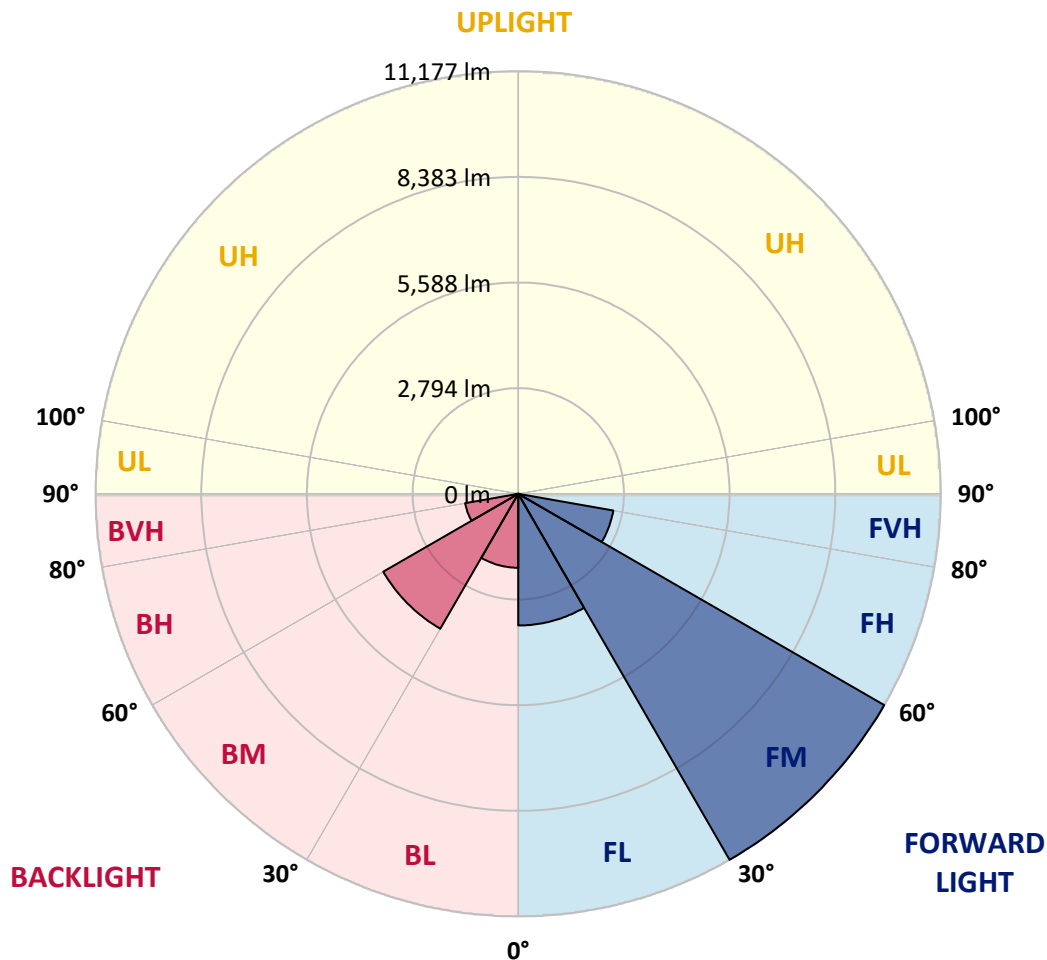


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3480.7	14.0			
FM (30°-60°)	11176.8	45.0			
FH (60°-80°)	2551.3	10.3			G2/5000
FVH (80°-90°)	42.3	0.2			G1/100
BL (0°-30°)	1955.1	7.9	B3/2500		
BM (30°-60°)	4120.1	16.6	B3/5000		
BH (60°-80°)	1425.3	5.7	B3/2500		G3/2500
BVH (80°-90°)	72.0	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°	11073.4	11073.4	11073.4	11073.4	11073.4	11073.4	11073.4	11073.4	11073.4	11073.4	11073.4
2.5°	11620.7	11555.4	11613.4	11888.9	12048.3	12157.1	12226.0	12215.1	11954.1	11700.4	11700.4
5°	11279.9	11196.6	11316.2	11939.6	12566.7	12621.1	12711.7	12563.1	12178.9	11714.9	11134.9
7.5°	10294.0	10355.7	10555.0	11374.2	12189.7	12599.3	12708.0	12519.5	11896.1	11029.8	10178.0
10°	9442.2	9587.2	10047.6	10932.0	11682.2	12215.1	12334.7	12070.1	11577.1	10515.1	9753.9
12.5°	9148.7	9058.0	9569.1	10453.5	11171.2	11457.5	11511.9	11530.0	11196.6	10254.1	9326.3
15°	9112.4	9170.3	9569.1	10239.7	10681.9	10696.3	10787.0	10928.4	10971.9	10431.8	9525.6
17.5°	9634.3	9565.4	9975.1	10507.9	10297.6	10087.5	10109.2	10312.2	10671.0	10584.0	10152.6
20°	10406.4	10562.3	10884.8	10830.5	10265.0	9732.2	9735.8	9927.9	10634.8	11214.7	11026.2
22.5°	11689.6	11841.8	12081.0	11424.9	10265.0	9627.1	9503.9	9764.9	10866.7	11965.0	12012.1
25°	12860.3	13139.4	13204.6	12432.6	10779.8	9725.0	9645.2	9902.6	11098.7	12697.2	13143.0
27.5°	13926.0	14027.5	14313.8	13081.4	11066.0	9790.2	9782.9	10112.8	11392.3	13063.3	14154.3
30°	14766.9	14756.0	14919.1	13491.0	11522.8	10156.3	9804.7	10428.1	11776.5	13668.6	15089.5
32.5°	15339.6	15462.8	15807.1	14060.1	11714.9	10504.3	10228.7	10797.9	12244.1	13955.0	15749.2
35°	16347.2	16561.1	16126.1	14375.4	12323.8	10848.6	10526.0	11301.7	12476.1	14266.6	16557.4
37.5°	17296.8	17133.8	16691.6	14545.8	12718.9	11486.5	11185.7	12276.7	13197.4	14944.5	17093.9
40°	17905.8	17902.2	17115.6	14683.5	12998.0	12461.6	12443.4	13266.3	14081.8	15372.2	17695.6
42.5°	18170.4	18424.1	17289.6	14669.0	13585.3	13643.2	14009.3	14745.1	14708.8	15459.2	17681.1
44°	18532.9	18685.1	17590.4	14701.6	13976.7	14440.6	15303.3	15770.9	15256.2	15412.1	17662.9
45°	18518.4	18529.2	17162.8	14745.1	14310.1	15107.6	15879.6	16669.8	15738.3	15310.6	17902.2
47.5°	18094.3	17971.1	16800.3	14422.5	15350.4	16869.2	17583.2	18061.7	16332.7	15093.1	17605.0
50°	17257.0	17115.6	15919.5	14284.8	15567.9	17963.8	18949.7	19123.7	16872.8	14879.2	17311.4
52.5°	17315.0	17275.1	16169.6	14491.4	15785.4	18308.1	19888.5	19932.0	17485.3	15328.7	17315.0
55°	18351.6	18213.9	16887.3	14748.7	15625.9	17905.8	19290.4	19214.3	17278.8	15056.8	17634.0
57.5°	16793.0	16883.7	15894.1	13730.3	13675.8	14556.6	15165.6	14977.1	14418.9	13588.9	16405.2
60°	13549.0	13806.4	13900.6	11482.9	10319.4	9866.4	9685.1	9351.6	9445.9	11163.9	14411.6
62.5°	11620.7	11606.1	12196.9	10410.0	6760.0	5813.9	5727.0	5803.1	6890.5	10989.9	14114.4
65°	9213.9	9460.3	9641.6	8822.4	5350.0	4316.9	4313.3	4795.4	5962.6	9184.9	11395.9
67.5°	5850.2	6172.8	6397.5	5643.6	3577.5	3073.7	2990.3	3570.3	4132.1	6024.2	6861.5
70°	3298.4	3450.7	3552.1	3254.9	2276.3	1594.9	1500.6	1638.4	2497.3	3900.1	4066.9
72.5°	1272.3	1341.1	1478.9	1489.7	859.1	514.7	416.8	500.2	1051.2	1544.1	1471.6
75°	195.7	210.2	297.2	355.2	246.5	188.5	199.3	206.6	293.6	398.7	333.5
77.5°	94.3	94.3	90.6	105.1	123.2	134.1	145.0	159.5	174.0	192.1	184.9
80°	61.6	61.6	61.6	72.5	90.6	108.7	123.2	130.5	137.8	152.2	145.0
82.5°	39.9	39.9	39.9	54.3	72.5	90.6	97.9	116.0	130.5	152.2	141.4
85°	21.8	21.8	21.8	36.2	54.3	76.1	72.5	58.0	32.6	3.6	7.2
87.5°	7.2	7.2	7.2	7.2	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°	11073.4	11073.4	11073.4	11073.4	11073.4	11073.4	11073.4	11073.4	11073.4	11073.4	11073.4
2.5°	11395.9	11229.2	11214.7	10874.0	10569.5	10420.9	10301.2	9967.8	10040.3	9848.2	9844.6
5°	10844.9	10504.3	9953.3	9500.3	9047.1	8956.6	8561.5	8217.1	8228.0	7981.5	8025.0
7.5°	9855.4	9619.9	8949.2	8238.9	7637.1	7209.5	6836.1	6611.4	6325.0	6227.2	6176.4
10°	9228.4	8938.4	8184.4	7292.8	6618.6	6390.3	6031.4	5832.1	5538.5	5393.5	5292.0
12.5°	8952.9	8528.8	7586.4	6680.2	6230.8	5995.2	5690.7	5328.2	4980.3	4846.2	4661.3
15°	8981.9	8474.4	7412.4	6433.7	5893.7	5437.0	5165.2	4762.8	4407.6	4171.9	4037.9
17.5°	9420.5	8804.3	7492.1	6245.3	5469.6	4896.9	4364.1	3929.2	3646.4	3468.8	3425.3
20°	10457.2	9619.9	7626.3	5940.8	5045.5	4331.5	3675.4	3222.3	3004.8	3001.2	3004.8
22.5°	11319.8	10489.8	7898.2	5759.6	4621.5	3606.5	2954.1	2809.1	2765.6	2856.2	2867.1
25°	12483.3	11468.4	8365.7	5665.3	4230.0	3073.7	2671.4	2617.0	2613.4	2729.4	2733.0
27.5°	13675.8	12323.8	8644.8	5389.9	3831.3	2798.3	2501.0	2490.1	2548.1	2671.4	2660.5
30°	14487.7	13041.6	9148.7	5060.0	3360.0	2555.4	2432.2	2446.6	2526.4	2620.6	2635.1
32.5°	15433.8	13748.3	9279.1	4878.8	3070.1	2352.4	2265.4	2298.0	2399.5	2548.1	2627.9
35°	16517.6	14248.6	9478.5	4632.3	2961.3	2196.5	2153.0	2189.3	2312.5	2410.4	2497.3
37.5°	17318.6	15133.0	9514.7	4440.2	2841.7	2109.6	2040.7	2160.3	2232.8	2370.5	2414.0
40°	17913.0	15774.6	9608.9	4320.6	2747.5	1997.2	1997.2	2076.9	2174.8	2301.6	2388.7
42.5°	18293.7	16242.1	9677.8	4211.8	2566.2	1964.6	1946.4	2026.2	2156.7	2280.0	2319.8
44°	18525.6	16441.5	9608.9	4110.4	2515.5	1924.7	1924.7	1993.6	2095.0	2240.0	2287.2
45°	18583.7	16691.6	9456.7	4106.8	2453.9	1877.5	1870.3	2000.8	2069.7	2247.3	2276.3
47.5°	18808.4	16999.6	9474.9	3990.7	2305.3	1765.2	1892.1	1950.0	2011.7	2167.5	2265.4
50°	18801.1	17191.7	9435.0	3820.4	2196.5	1638.4	1848.6	1913.8	1975.4	2135.0	2174.8
52.5°	18851.9	17909.4	9801.1	3548.5	2000.8	1475.2	1703.6	1848.6	1924.7	2058.8	2142.2
55°	18826.5	18319.0	10163.6	3345.6	1725.3	1377.4	1580.3	1750.7	1859.5	2000.8	2040.7
57.5°	17195.4	16191.4	9406.0	2964.9	1428.1	1261.4	1406.4	1649.2	1787.0	1931.9	1982.7
60°	14049.2	12479.7	7756.8	2182.1	1174.4	1159.9	1308.5	1616.6	1674.6	1801.4	1888.5
62.5°	12983.5	10946.5	6151.1	1667.4	1004.1	1062.0	1207.0	1460.7	1551.4	1707.2	1787.0
65°	10160.0	7271.0	3809.5	1127.3	884.4	953.3	1091.0	1279.5	1428.1	1573.1	1667.4
67.5°	6016.9	3972.6	1884.8	790.2	772.0	844.5	985.9	1127.3	1297.7	1457.1	1504.2
70°	3276.7	1953.7	804.7	601.7	656.1	721.3	859.1	956.9	1120.0	1243.3	1323.0
72.5°	1051.2	594.4	402.3	445.8	500.2	576.3	659.7	779.3	895.3	967.8	1033.0
75°	253.7	250.1	286.4	311.8	362.5	420.5	489.3	550.9	641.6	710.4	768.4
77.5°	177.6	192.1	221.1	257.3	275.5	297.2	340.7	387.9	427.7	478.4	514.7
80°	137.8	148.6	170.4	188.5	206.6	224.7	246.5	264.6	290.0	322.6	340.7
82.5°	130.5	137.8	159.5	170.4	163.1	159.5	174.0	181.2	184.9	195.7	206.6
85°	10.8	0.0	7.2	25.4	61.6	90.6	97.9	97.9	94.3	101.5	101.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	14.5	10.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	11073.4	11073.4	11073.4	11073.4	11073.4	11073.4	11073.4	11073.4	11073.4	11073.4	11073.4
2.5°	9801.1	9677.8	9725.0	9782.9	9699.6	9507.5	9558.2	9536.5	9732.2	9717.7	9913.5
5°	8217.1	8025.0	8046.8	8329.4	8238.9	8336.7	8141.0	8115.6	8151.9	8170.0	8202.6
7.5°	6288.7	6263.4	6480.9	6720.1	6832.5	6716.5	6524.4	6480.9	6441.1	6361.2	6542.5
10°	5132.5	5139.8	5125.3	5306.5	5433.4	5408.0	5292.0	5277.5	5201.4	5172.4	5273.9
12.5°	4581.6	4483.7	4436.6	4378.6	4476.5	4541.7	4490.9	4454.7	4458.3	4494.6	4509.1
15°	4048.7	3987.1	3885.7	3820.4	3867.5	3834.9	3816.8	3889.3	3871.1	3863.9	3950.8
17.5°	3450.7	3501.4	3494.2	3421.7	3483.3	3457.9	3454.3	3403.5	3334.6	3283.9	3313.0
20°	3055.6	3149.8	3222.3	3225.9	3258.5	3254.9	3200.6	3044.7	2994.0	2983.1	2990.3
22.5°	2914.2	2964.9	3052.0	3175.2	3175.2	3117.2	3052.0	2870.8	2823.6	2772.9	2751.1
25°	2801.9	2899.8	3012.1	3026.6	3084.6	3030.2	2925.1	2834.5	2736.6	2667.7	2667.7
27.5°	2743.8	2852.6	2936.0	2961.3	3041.1	2997.6	2888.8	2772.9	2656.9	2653.3	2591.6
30°	2718.5	2820.0	2874.4	2936.0	2972.3	2903.4	2870.8	2747.5	2631.5	2602.5	2501.0
32.5°	2642.3	2787.3	2888.8	2874.4	2903.4	2874.4	2827.3	2725.8	2595.2	2530.0	2519.1
35°	2555.4	2700.4	2809.1	2885.2	2903.4	2841.7	2812.7	2675.0	2497.3	2464.8	2352.4
37.5°	2508.3	2595.2	2729.4	2852.6	2878.0	2845.4	2747.5	2606.1	2428.6	2392.3	2294.4
40°	2450.3	2562.6	2667.7	2769.2	2845.4	2765.6	2653.3	2515.5	2435.8	2327.0	2298.0
42.5°	2406.8	2533.6	2620.6	2733.0	2820.0	2714.8	2584.4	2490.1	2377.8	2305.3	2221.9
44°	2392.3	2508.3	2566.2	2704.0	2776.5	2696.8	2588.0	2490.1	2359.7	2294.4	2221.9
45°	2341.5	2501.0	2562.6	2685.9	2747.5	2682.3	2544.5	2446.6	2352.4	2272.6	2196.5
47.5°	2290.8	2399.5	2504.7	2602.5	2646.0	2624.3	2508.3	2388.7	2276.3	2229.2	2156.7
50°	2276.3	2385.0	2482.9	2573.5	2624.3	2580.8	2475.7	2359.7	2229.2	2153.0	2091.4
52.5°	2203.8	2337.9	2446.6	2475.7	2540.9	2515.5	2435.8	2308.9	2185.7	2120.4	2069.7
55°	2098.7	2240.0	2388.7	2424.9	2519.1	2479.3	2359.7	2240.0	2135.0	2037.1	1971.8
57.5°	2058.8	2196.5	2341.5	2388.7	2446.6	2381.4	2352.4	2225.5	2058.8	2008.1	1906.5
60°	1957.3	2131.3	2250.9	2359.7	2363.3	2345.1	2294.4	2149.4	2011.7	1917.5	1845.0
62.5°	1877.5	2040.7	2135.0	2236.4	2298.0	2247.3	2196.5	2062.5	1913.8	1808.7	1725.3
65°	1761.6	1910.2	1990.0	2051.5	2120.4	2113.2	2026.2	1928.3	1772.5	1689.1	1609.3
67.5°	1583.9	1714.5	1823.2	1881.2	1924.7	1913.8	1848.6	1779.7	1620.2	1536.8	1478.9
70°	1370.2	1504.2	1573.1	1605.7	1649.2	1671.0	1620.2	1587.6	1446.3	1337.5	1283.1
72.5°	1101.9	1188.9	1290.3	1319.4	1337.5	1352.0	1352.0	1323.0	1178.0	1134.5	1040.3
75°	811.9	880.8	956.9	956.9	989.5	993.1	1000.4	982.3	873.5	815.5	793.8
77.5°	550.9	601.7	663.3	688.7	710.4	706.8	703.2	652.4	594.4	569.1	547.3
80°	358.9	409.6	438.6	471.2	493.0	489.3	496.6	460.4	435.0	391.5	398.7
82.5°	213.9	253.7	282.7	322.6	322.6	333.5	333.5	322.6	297.2	275.5	275.5
85°	101.5	134.1	152.2	177.6	192.1	195.7	174.0	148.6	123.2	112.4	123.2
87.5°	18.1	25.4	36.2	32.6	39.9	36.2	36.2	36.2	36.2	29.0	32.6
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°	11073.4	11073.4	11073.4	11073.4	11073.4	11073.4	11073.4	11073.4	11073.4	11073.4
2.5°	9841.0	10022.2	10149.0	10359.3	10721.7	11011.7	11308.9	11530.0	11555.4	11620.7
5°	8322.2	8420.1	8742.7	9163.1	9460.3	9949.7	10265.0	10837.7	11051.6	11279.9
7.5°	6499.0	6658.5	7089.8	7372.5	8025.0	8637.6	9271.9	9978.7	10261.4	10294.0
10°	5480.5	5712.5	6006.1	6459.1	6814.4	7495.8	8286.0	9072.5	9387.8	9442.2
12.5°	4813.5	5110.8	5502.2	5828.5	6169.2	6763.6	7521.1	8492.6	8902.2	9148.7
15°	4171.9	4480.1	4911.4	5364.5	5665.3	6375.8	7267.4	8362.1	8894.9	9112.4
17.5°	3512.3	3798.6	4153.9	4643.2	5248.5	6045.9	7227.6	8797.0	9380.6	9634.3
20°	2946.9	3106.3	3519.6	4023.3	4780.9	5708.9	7242.1	9438.6	10294.0	10406.4
22.5°	2725.8	2762.0	2925.1	3389.1	4219.1	5364.5	7499.4	10348.4	11319.8	11689.6
25°	2555.4	2548.1	2591.6	2903.4	3809.5	5230.3	7753.2	11185.7	12458.0	12860.3
27.5°	2461.1	2388.7	2392.3	2685.9	3519.6	5012.9	8079.4	12146.2	13748.3	13926.0
30°	2414.0	2399.5	2356.1	2475.7	3204.2	4686.7	8133.7	13092.3	14509.5	14766.9
32.5°	2385.0	2243.7	2189.3	2232.8	2907.0	4331.5	8336.7	13715.7	15451.9	15339.6
35°	2240.0	2113.2	2076.9	2120.4	2696.8	4132.1	8202.6	14259.4	16158.7	16347.2
37.5°	2185.7	2073.3	2000.8	1964.6	2501.0	3965.4	8133.7	15096.7	16843.8	17296.8
40°	2135.0	2015.3	1928.3	1892.1	2348.7	3744.3	8111.9	15741.9	17634.0	17905.8
42.5°	2076.9	2000.8	1902.9	1837.7	2163.9	3523.2	7861.9	15941.2	17876.8	18170.4
44°	2058.8	1942.8	1841.3	1819.6	2091.4	3410.8	7811.1	16122.5	18087.1	18532.9
45°	2040.7	1931.9	1816.0	1787.0	2066.1	3349.2	7742.2	16166.0	18435.1	18518.4
47.5°	1990.0	1921.1	1808.7	1728.9	2011.7	3215.1	7535.7	15919.5	18079.8	18094.3
50°	1950.0	1870.3	1754.3	1598.5	1939.2	3102.7	7629.9	15828.9	17224.4	17257.0
52.5°	1906.5	1787.0	1721.7	1453.5	1819.6	3008.4	7829.3	16238.4	17322.2	17315.0
55°	1855.8	1725.3	1565.9	1330.2	1620.2	2888.8	8311.4	17046.7	18228.4	18351.6
57.5°	1776.1	1663.8	1435.3	1221.5	1391.9	2660.5	8155.5	15499.0	16771.3	16793.0
60°	1671.0	1565.9	1301.3	1138.1	1141.7	2098.7	7292.8	12077.3	13233.6	13549.0
62.5°	1569.5	1511.4	1188.9	1018.5	971.4	1671.0	6165.5	10036.7	11359.7	11620.7
65°	1449.9	1308.5	1091.0	927.9	833.7	1170.8	4367.7	7499.4	8862.3	9213.9
67.5°	1297.7	1145.4	960.5	815.5	714.1	782.9	2254.6	4262.6	5643.6	5850.2
70°	1134.5	993.1	808.3	688.7	576.3	540.1	993.1	2033.5	3084.6	3298.4
72.5°	931.6	801.1	645.2	543.7	431.3	373.3	333.5	543.7	1094.6	1272.3
75°	674.1	583.6	485.7	387.9	304.4	239.3	195.7	163.1	181.2	195.7
77.5°	496.6	424.1	358.9	275.5	213.9	170.4	134.1	101.5	97.9	94.3
80°	387.9	344.3	286.4	221.1	166.8	126.8	94.3	68.9	61.6	61.6
82.5°	304.4	282.7	235.6	181.2	137.8	101.5	68.9	47.1	39.9	39.9
85°	116.0	116.0	170.4	148.6	105.1	72.5	47.1	25.4	21.8	21.8
87.5°	29.0	29.0	29.0	29.0	25.4	21.8	21.8	10.8	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)