

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: P456844

Luminaire Tested: **GALN-SA8A-827-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-827-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23400 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

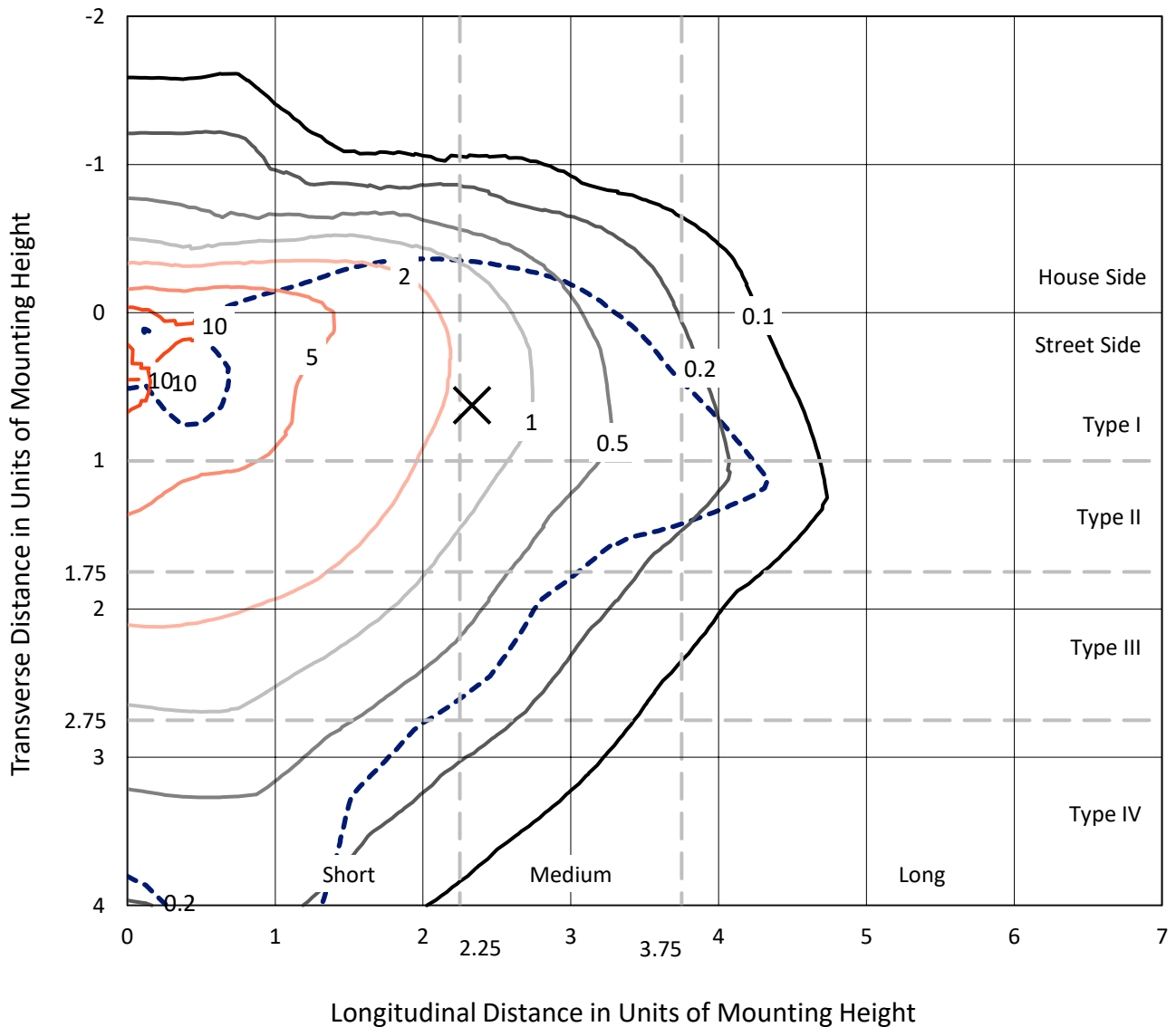
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

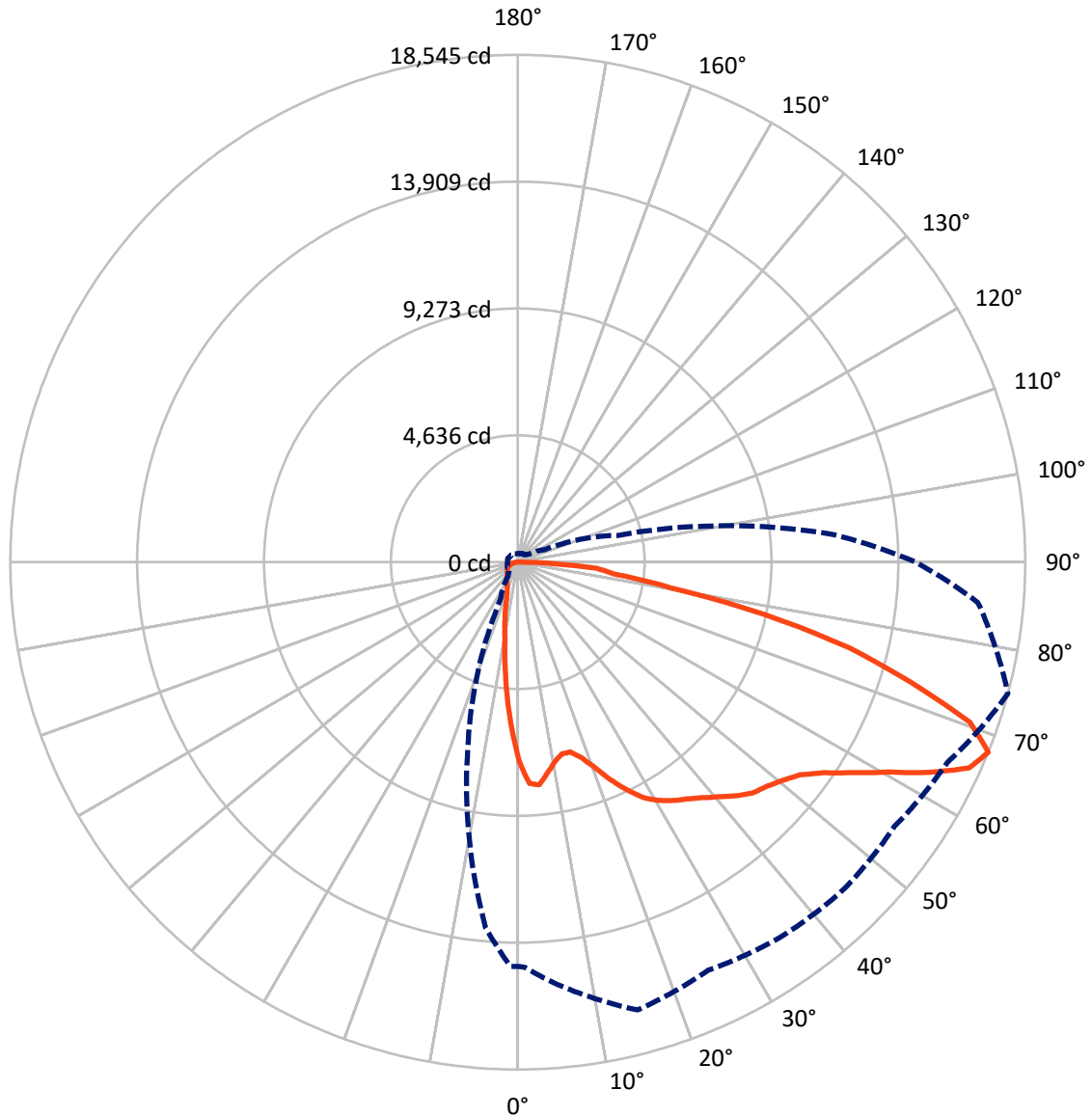
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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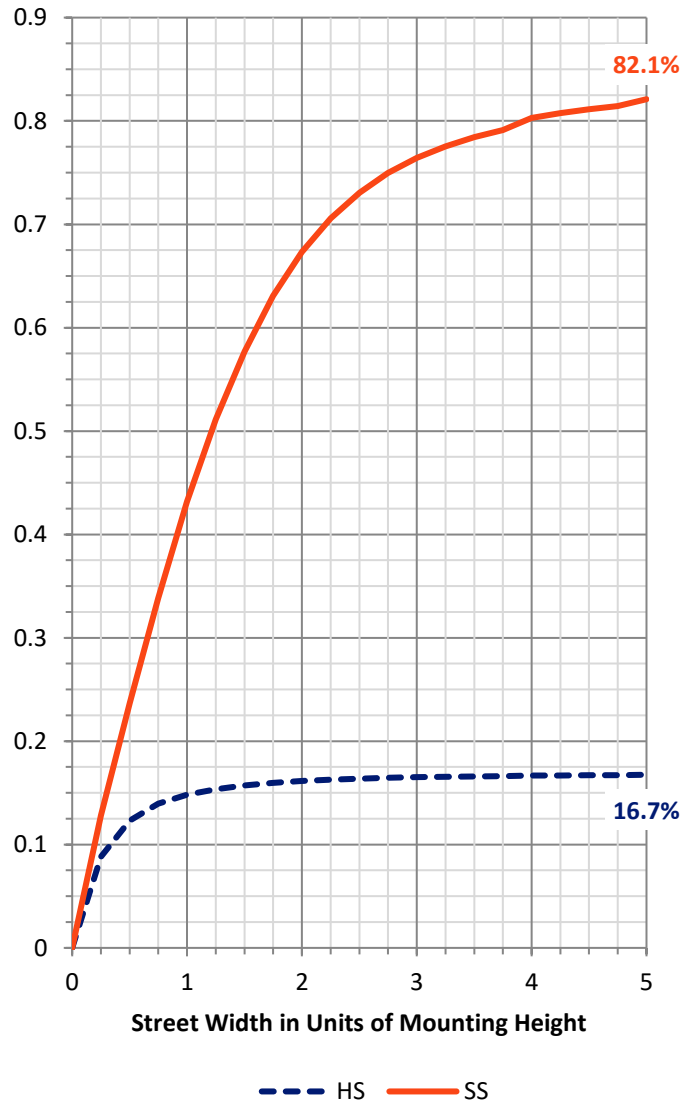
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3955.1	0.0	3955.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	19444.9	0.0	19444.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	23400.0	0.0	23400.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.5	2.4
10°-20°	1156.4	4.9
20°-30°	1664.1	7.1
30°-40°	2396.8	10.2
40°-50°	3366.8	14.4
50°-60°	4695.5	20.1
60°-70°	5582.7	23.9
70°-80°	3287.9	14.1
80°-90°	695.3	3.0
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°	23400.0	100.0
0°-180°	23400.0	100.0



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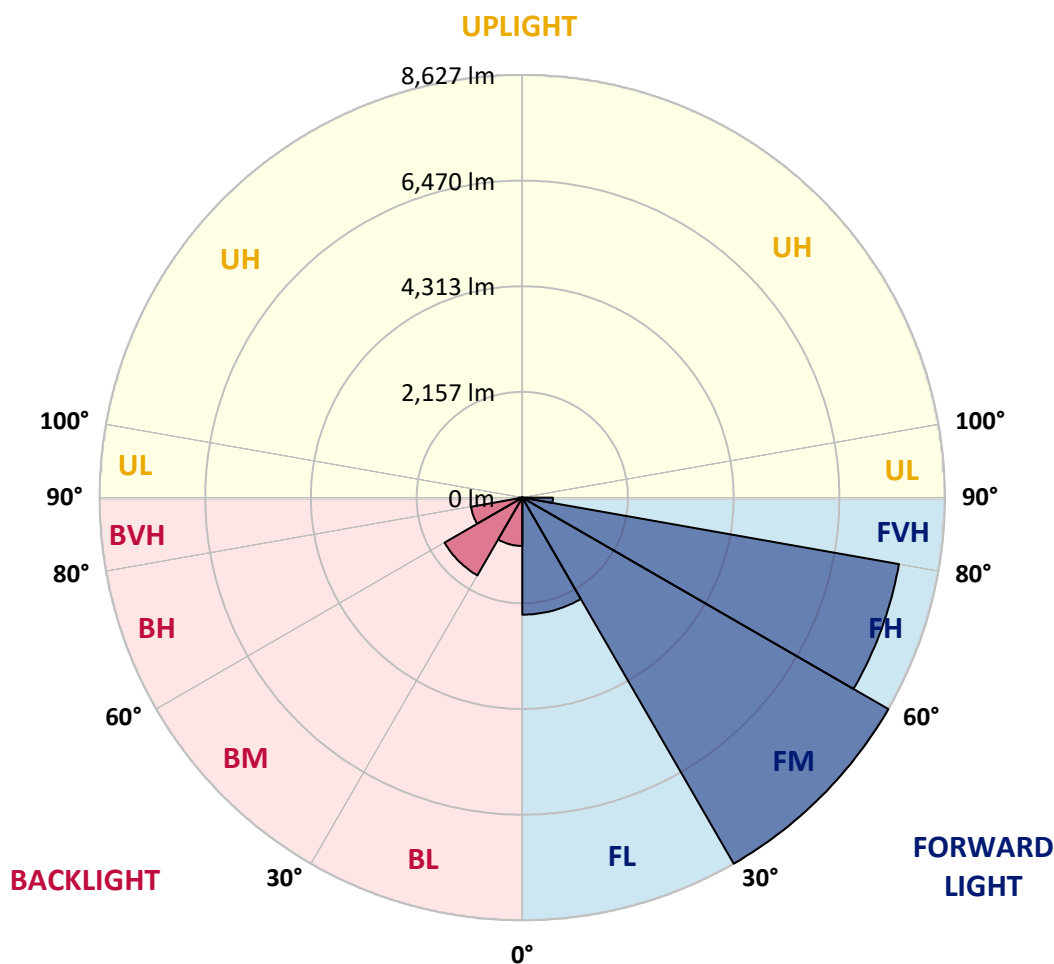
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2388.5	10.2			
FM	(30°-60°)	8626.7	36.9			
FH	(60°-80°)	7806.3	33.4			G4/12000
FVH	(80°-90°)	623.4	2.7			G4/750
BL	(0°-30°)	986.5	4.2	B2/1000		
BM	(30°-60°)	1832.4	7.8	B2/2500		
BH	(60°-80°)	1064.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	71.9	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7
2.5°	7882.4	7892.9	7960.5	8157.0	8292.1	8341.6	8376.1	8311.6	8248.6	8095.5	7864.4
5°	7858.4	7919.9	8095.5	8536.7	8884.8	9034.9	9079.9	8886.3	8566.7	8173.5	7700.9
7.5°	7399.2	7481.8	7751.9	8491.7	9105.4	9456.5	9410.0	9060.4	8484.1	7783.4	7123.1
10°	6854.5	6946.1	7271.7	8166.0	8956.8	9440.0	9440.0	9013.8	8248.6	7415.8	6655.0
12.5°	6422.4	6518.4	6890.6	7831.4	8647.7	9105.4	9181.9	8815.8	8079.0	7183.2	6347.4
15°	6279.8	6372.9	6773.5	7628.8	8320.6	8599.7	8625.2	8505.2	7996.5	7199.7	6333.9
17.5°	6456.9	6576.9	6982.1	7688.9	8020.5	8037.0	8056.5	8151.0	8005.5	7501.3	6607.0
20°	6968.6	7097.6	7520.8	7882.4	7757.9	7586.8	7597.3	7840.4	8112.0	7999.5	7259.7
22.5°	7706.9	7819.4	8253.1	8223.1	7646.8	7294.2	7220.7	7559.8	8269.6	8620.7	7954.5
25°	8503.7	8635.7	9133.9	8728.7	7678.4	7120.1	7073.6	7394.7	8433.1	9201.4	8757.3
27.5°	9416.0	9545.0	9938.2	9238.9	7843.4	7106.6	7051.1	7379.7	8580.2	9738.6	9524.0
30°	10094.2	10212.8	10479.9	9668.1	8046.0	7196.7	7127.6	7498.3	8706.2	10106.3	10271.3
32.5°	10626.9	10750.0	10895.5	9935.2	8313.1	7360.2	7232.7	7714.4	8871.3	10386.9	10825.0
35°	11182.2	11327.7	11317.2	10172.3	8562.2	7549.3	7424.8	8026.5	9130.9	10631.4	11527.3
37.5°	11885.9	11944.4	11869.4	10385.4	8860.8	7889.9	7820.9	8490.2	9500.0	10927.1	12348.1
40°	12600.2	12717.2	12331.6	10643.5	9223.9	8530.7	8523.2	9175.9	9938.2	11273.7	13143.4
42.5°	13212.4	13311.4	12763.7	10868.5	9663.6	9312.5	9369.5	10095.7	10512.9	11675.8	13782.6
45°	13673.1	13761.6	13162.9	11086.1	10242.8	10215.8	10551.9	11081.6	11237.7	12037.5	14157.8
47.5°	14064.7	14150.3	13440.5	11416.2	10958.6	11294.7	11879.9	12109.5	11857.4	12244.5	14577.9
50°	14394.8	14420.4	13631.1	11809.4	11846.9	12616.7	13183.9	13332.4	12469.6	12541.7	14942.5
52.5°	14738.5	14705.5	13959.7	12304.6	12807.3	13871.1	14283.8	14438.4	13056.3	12907.8	15473.7
55°	15508.3	15539.8	14696.5	12928.8	13778.1	15103.1	15646.3	15497.8	13706.1	13581.5	16149.0
57.5°	16438.6	16411.6	15733.3	13905.7	14767.0	16249.5	16654.7	16416.1	14573.4	14507.4	16833.2
60°	16800.2	16836.2	16600.7	14956.1	15742.3	17253.4	17667.6	17296.9	15613.3	15583.3	17349.4
62.5°	16437.1	16639.7	16798.7	15890.9	16573.7	17991.7	18402.8	17979.7	16698.2	16915.8	17711.1
65°	15713.8	15757.3	16299.1	16683.2	16974.3	18113.2	18327.8	18102.7	17604.5	18129.7	17694.6
67.5°	14774.5	14812.0	15446.7	16942.8	16458.1	16732.7	16882.8	16816.7	17323.9	18545.4	16879.8
70°	13880.2	13850.1	14520.9	16281.0	14327.3	13910.2	14034.7	13827.6	14948.5	17529.5	15281.7
72.5°	12139.5	12247.5	12967.8	14441.4	11344.2	10666.0	10937.6	10401.9	11497.3	15013.1	12403.6
75°	9509.0	9534.5	10736.5	12120.0	8557.7	7487.8	7855.4	7631.8	8806.8	12523.6	8565.2
77.5°	6584.4	6527.4	7819.4	9256.9	6102.8	5481.5	5487.5	5381.0	6149.3	9220.9	5819.2
80°	4182.1	4095.0	4894.8	5718.6	4194.1	4486.7	4339.6	4335.1	4003.5	5688.6	3518.8
82.5°	2259.8	2355.9	3092.6	3584.8	3008.6	3467.8	3178.2	3085.1	2747.5	3560.8	2250.8
85°	1029.4	1119.4	1649.1	2438.4	2285.3	2310.9	1544.1	1821.7	2273.3	2891.6	1201.9
87.5°	100.5	129.0	340.6	1150.9	780.3	615.2	229.6	442.7	571.7	1027.9	96.0
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°	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7
2.5°	7769.9	7691.9	7426.3	7207.2	6974.6	6797.5	6566.4	6411.9	6305.3	6144.8	6125.3
5°	7412.8	7222.2	6760.0	6288.8	5882.2	5576.1	5265.5	4980.3	4812.3	4759.8	4692.2
7.5°	6811.0	6489.9	5895.7	5355.5	4888.8	4432.6	4081.5	3832.4	3665.9	3568.3	3451.3
10°	6315.8	5943.7	5220.4	4558.7	4174.5	3890.9	3581.8	3314.7	3109.2	2933.6	2837.6
12.5°	5982.7	5562.6	4749.3	4212.1	3915.0	3613.3	3251.7	2951.6	2648.5	2448.9	2363.4
15°	5882.2	5438.0	4603.7	4039.5	3613.3	3218.7	2813.5	2421.9	2121.8	1932.7	1869.7
17.5°	6128.3	5591.1	4602.2	3809.9	3259.2	2788.0	2268.8	1901.2	1593.6	1452.5	1407.5
20°	6587.4	5885.2	4615.7	3583.3	2875.1	2211.8	1650.6	1349.0	1201.9	1141.9	1119.4
22.5°	7228.2	6333.9	4656.2	3359.7	2454.9	1698.6	1236.5	1083.4	1030.9	1020.4	1015.9
25°	8017.5	6889.1	4792.8	3158.7	2100.8	1296.5	1033.9	964.9	934.8	924.3	922.8
27.5°	8743.7	7606.3	4957.8	2986.1	1758.7	1117.9	934.8	876.3	846.3	844.8	847.8
30°	9399.5	8206.5	5095.9	2792.5	1499.1	993.4	870.3	811.8	783.3	781.8	790.8
32.5°	9966.7	8700.2	5197.9	2602.0	1355.0	916.8	811.8	748.8	724.8	720.3	724.8
35°	10572.9	9192.4	5151.4	2453.4	1272.5	853.8	768.3	706.8	678.3	664.7	664.7
37.5°	11264.7	9699.6	5071.9	2330.4	1235.0	801.3	730.8	670.7	642.2	628.7	627.2
40°	12019.5	10206.8	4962.3	2220.8	1197.4	769.8	705.3	642.2	607.7	594.2	591.2
42.5°	12685.7	10640.4	4872.3	2148.8	1135.9	775.8	682.8	621.2	577.7	559.7	558.2
45°	13264.9	11077.1	4855.8	2106.8	1084.9	766.8	676.8	604.7	553.7	534.2	531.2
47.5°	13718.1	11531.8	4950.3	2082.8	1029.4	718.8	715.8	594.2	532.7	511.7	508.7
50°	14270.3	12177.0	5166.4	2033.3	978.4	673.8	756.3	592.7	516.2	489.2	481.7
52.5°	15005.6	13017.3	5459.0	1944.7	904.8	631.7	721.8	592.7	496.7	469.7	460.7
55°	16117.5	14088.7	5745.6	1820.2	801.3	576.2	651.2	574.7	468.2	444.2	438.2
57.5°	16854.3	14872.0	5928.7	1647.6	672.2	535.7	561.2	546.2	439.7	414.2	414.2
60°	16891.8	15082.1	5841.7	1430.0	591.2	498.2	487.7	550.7	414.2	387.1	384.1
62.5°	16459.6	14567.4	5388.5	1235.0	547.7	457.7	441.2	483.2	388.6	361.6	357.1
65°	15784.4	13254.4	4602.2	1141.9	523.7	421.7	397.6	396.1	361.6	336.1	330.1
67.5°	14543.4	11582.8	3781.4	1087.9	511.7	381.1	358.6	351.1	330.1	309.1	306.1
70°	12714.2	9701.1	3032.6	1065.4	505.7	339.1	321.1	312.1	294.1	277.6	276.1
72.5°	9891.7	7868.9	2502.9	1050.4	502.7	300.1	280.6	268.6	258.1	243.1	243.1
75°	7105.1	5789.1	1910.2	946.9	465.2	258.1	237.1	229.6	214.6	202.6	205.6
77.5°	4479.2	3898.4	1257.5	696.3	360.1	207.1	189.1	184.6	172.6	156.1	166.6
80°	3025.1	2741.5	733.8	438.2	226.6	151.6	145.6	144.1	130.5	112.5	114.0
82.5°	2058.8	2019.7	381.1	249.1	130.5	88.5	85.5	88.5	73.5	60.0	60.0
85°	804.3	1098.4	180.1	97.5	42.0	13.5	19.5	21.0	12.0	6.0	7.5
87.5°	15.0	112.5	4.5	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7
2.5°	6095.3	6081.8	6104.3	6008.2	6027.7	6063.8	6081.8	6092.3	6240.8	6206.3	6300.8
5°	4755.3	4741.8	4828.8	4840.8	4885.8	4876.8	4920.3	4930.8	4984.9	5004.4	5136.4
7.5°	3458.8	3517.3	3616.3	3667.4	3743.9	3767.9	3745.4	3800.9	3688.4	3769.4	3793.4
10°	2779.0	2708.5	2666.5	2783.5	2798.5	2909.6	2864.6	2828.5	2894.6	2897.6	2960.6
12.5°	2313.9	2162.3	2061.8	2094.8	2130.8	2178.8	2186.3	2258.3	2306.4	2351.4	2388.9
15°	1814.2	1761.7	1670.1	1625.1	1676.1	1695.6	1742.1	1802.2	1853.2	1866.7	1917.7
17.5°	1392.5	1401.5	1386.5	1359.5	1391.0	1406.0	1409.0	1410.5	1424.0	1415.0	1490.1
20°	1120.9	1152.4	1189.9	1195.9	1206.4	1214.0	1200.4	1149.4	1150.9	1182.4	1206.4
22.5°	1014.4	1020.4	1062.4	1075.9	1108.9	1095.4	1056.4	1032.4	1029.4	1036.9	1048.9
25°	930.3	939.3	969.4	990.4	1015.9	991.9	963.4	940.8	937.8	945.4	957.4
27.5°	855.3	868.8	895.8	916.8	940.8	918.3	891.3	871.8	870.3	868.8	876.3
30°	795.3	810.3	829.8	853.8	870.3	850.8	825.3	814.8	813.3	810.3	813.3
32.5°	735.3	759.3	778.8	790.8	807.3	792.3	772.8	766.8	756.3	747.3	742.8
35°	667.7	693.3	723.3	738.3	754.8	739.8	726.3	700.8	682.8	681.3	684.3
37.5°	628.7	639.2	663.2	688.8	705.3	697.8	672.2	646.7	642.2	642.2	645.2
40°	594.2	598.7	609.2	642.2	672.2	649.7	618.2	610.7	610.7	609.2	610.7
42.5°	559.7	564.2	564.2	589.7	637.7	601.7	577.7	577.7	577.7	579.2	583.7
45°	528.2	529.7	528.2	546.2	591.2	561.2	544.7	549.2	552.2	555.2	558.2
47.5°	501.2	502.7	501.2	516.2	538.7	526.7	517.7	523.7	529.7	534.2	537.2
50°	477.2	475.7	478.7	487.7	498.2	501.2	495.2	504.2	507.2	513.2	520.7
52.5°	456.2	454.7	457.7	462.2	477.2	477.2	477.2	484.7	490.7	496.7	507.2
55°	432.2	433.7	438.2	444.2	463.7	460.7	462.2	468.2	474.2	483.2	489.2
57.5°	409.7	412.7	418.7	427.7	447.2	445.7	447.2	450.2	457.7	462.2	468.2
60°	384.1	390.1	397.6	403.6	423.2	421.7	429.2	435.2	439.7	439.7	442.7
62.5°	358.6	367.6	375.1	379.6	400.6	402.1	412.7	417.2	420.2	417.2	421.7
65°	333.1	346.6	349.6	355.6	376.6	378.1	390.1	400.6	397.6	394.6	402.1
67.5°	307.6	324.1	322.6	330.1	351.1	354.1	364.6	382.6	376.6	373.6	379.6
70°	279.1	291.1	292.6	297.1	325.6	321.1	337.6	354.1	349.6	351.1	351.1
72.5°	247.6	258.1	258.1	267.1	297.1	289.6	303.1	321.1	321.1	319.6	319.6
75°	210.1	216.1	222.1	235.6	267.1	258.1	267.1	283.6	286.6	283.6	283.6
77.5°	169.6	178.6	181.6	199.6	222.1	220.6	229.6	237.1	243.1	240.1	240.1
80°	120.0	129.0	141.1	160.6	174.1	178.6	183.1	189.1	192.1	192.1	195.1
82.5°	67.5	81.0	91.5	111.0	117.0	139.6	138.1	142.6	138.1	121.5	135.1
85°	15.0	28.5	40.5	51.0	58.5	81.0	85.5	96.0	79.5	73.5	73.5
87.5°	0.0	0.0	0.0	0.0	0.0	12.0	24.0	33.0	28.5	24.0	24.0
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°	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7
2.5°	6380.4	6510.9	6668.5	6940.1	7130.6	7336.2	7543.3	7763.9	7822.4	7882.4
5°	5172.4	5429.0	5568.6	5933.2	6315.8	6802.0	7199.7	7634.8	7816.4	7858.4
7.5°	3918.0	4092.0	4458.2	4827.3	5301.5	5811.7	6420.9	7099.1	7310.7	7399.2
10°	3106.2	3343.2	3664.4	4060.5	4476.2	5025.4	5712.6	6504.9	6805.0	6854.5
12.5°	2644.0	2908.1	3257.7	3676.4	4069.5	4483.7	5176.9	5994.7	6315.8	6422.4
15°	2114.3	2433.9	2837.6	3278.7	3706.4	4159.5	4861.8	5784.6	6155.3	6279.8
17.5°	1661.1	1919.2	2355.9	2834.6	3341.7	3915.0	4795.8	5885.2	6341.4	6456.9
20°	1271.0	1455.5	1823.2	2328.9	2923.1	3673.4	4812.3	6264.8	6811.0	6968.6
22.5°	1098.4	1192.9	1416.5	1898.2	2563.0	3463.3	4879.8	6785.5	7444.3	7706.9
25°	994.9	1044.4	1170.4	1485.6	2219.3	3259.2	5034.4	7486.3	8329.6	8503.7
27.5°	906.3	942.3	1020.4	1247.0	1907.2	3070.1	5214.4	8263.6	9156.4	9416.0
30°	822.3	870.3	943.9	1107.4	1707.6	2897.6	5441.0	8893.8	9852.7	10094.2
32.5°	757.8	805.8	873.3	1009.9	1538.1	2716.0	5576.1	9447.5	10421.4	10626.9
35°	705.3	745.8	816.3	931.8	1409.0	2578.0	5549.1	9887.2	10972.1	11182.2
37.5°	667.7	702.3	772.8	858.3	1311.5	2433.9	5535.6	10467.9	11642.8	11885.9
40°	633.2	669.2	733.8	810.3	1214.0	2264.3	5543.1	11044.1	12357.1	12600.2
42.5°	606.2	646.7	699.3	796.8	1113.4	2127.8	5543.1	11545.3	12978.3	13212.4
45°	583.7	627.2	678.3	795.3	1033.9	2024.3	5505.5	11975.9	13473.5	13673.1
47.5°	564.2	612.2	685.8	768.3	1014.4	1949.2	5472.5	12321.1	13877.2	14064.7
50°	550.7	607.7	729.3	736.8	1020.4	1926.7	5631.6	12756.2	14232.8	14394.8
52.5°	540.2	609.2	727.8	690.3	1009.9	1941.7	5963.2	13436.0	14726.5	14738.5
55°	519.2	607.7	690.3	637.7	966.4	1967.2	6389.4	14423.4	15499.3	15508.3
57.5°	498.2	591.2	640.7	592.7	877.8	1967.2	6902.6	15358.2	16431.1	16438.6
60°	477.2	615.2	562.7	553.7	762.3	1931.2	7444.3	15769.4	16723.7	16800.2
62.5°	456.2	619.7	502.7	519.2	678.3	1844.2	7847.9	15314.7	16327.6	16437.1
65°	432.2	499.7	463.7	483.2	634.7	1698.6	7720.4	14481.9	15583.3	15713.8
67.5°	403.6	423.2	421.7	445.7	619.7	1484.1	7048.1	13428.5	14782.0	14774.5
70°	369.1	379.6	384.1	409.7	591.2	1317.5	5873.2	12061.5	13712.1	13880.2
72.5°	333.1	342.1	346.6	369.1	562.7	1223.0	4558.7	10178.3	11876.9	12139.5
75°	294.1	300.1	306.1	325.6	532.7	1083.4	3247.2	7769.9	9096.4	9509.0
77.5°	253.6	253.6	261.1	280.6	448.7	894.3	2178.8	5450.0	6162.8	6584.4
80°	205.6	207.1	204.1	225.1	330.1	612.2	1238.0	3640.4	4101.0	4182.1
82.5°	157.6	153.1	154.6	165.1	246.1	417.2	660.2	2261.3	2304.9	2259.8
85°	99.0	99.0	96.0	108.0	157.6	217.6	360.1	1385.0	1081.9	1029.4
87.5°	40.5	33.0	37.5	43.5	75.0	88.5	141.1	285.1	109.5	100.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)