

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: P451974

Luminaire Tested: **GALN-SA2D-827-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451974
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-SA2D-827-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA 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: 9858 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

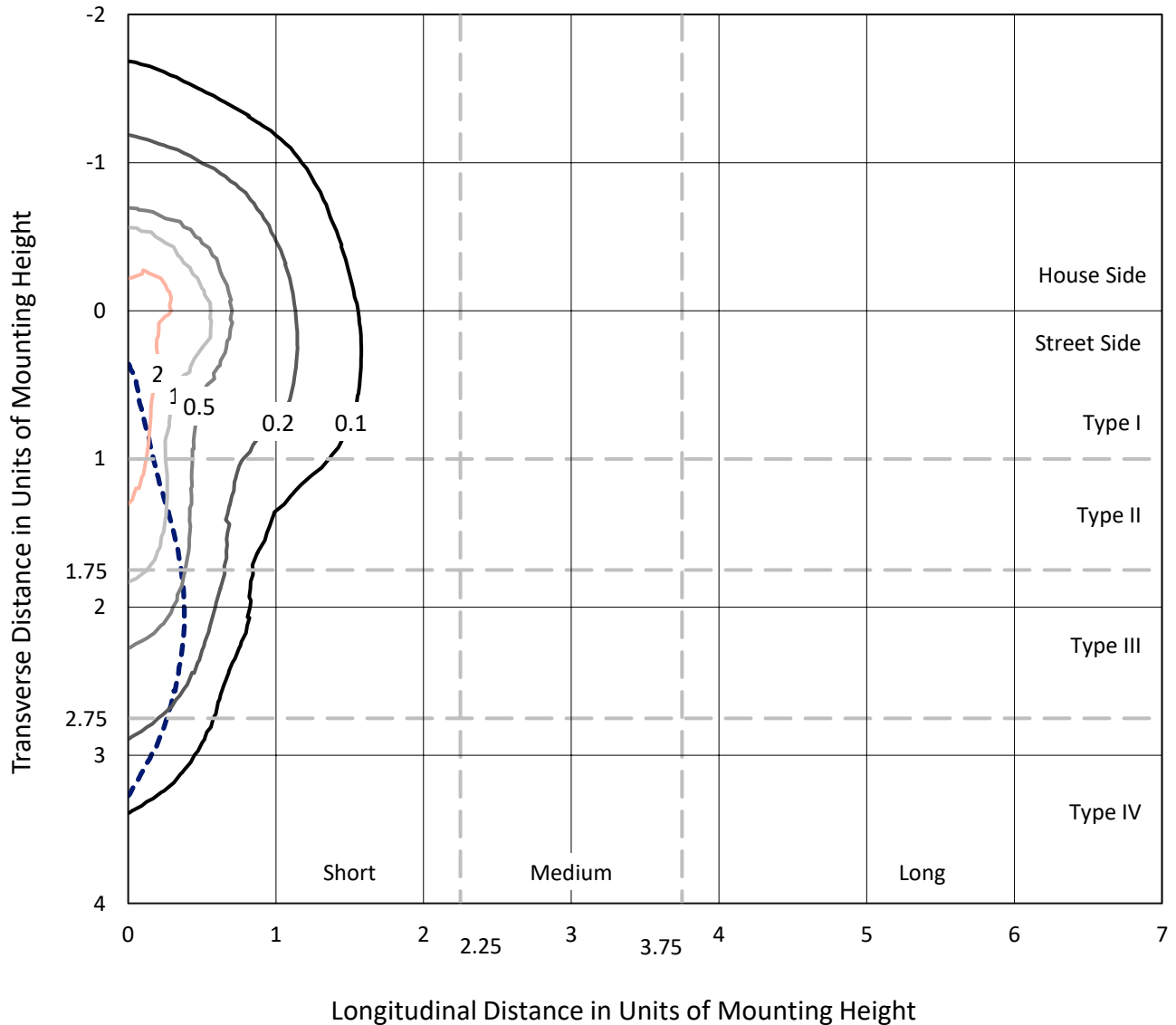
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

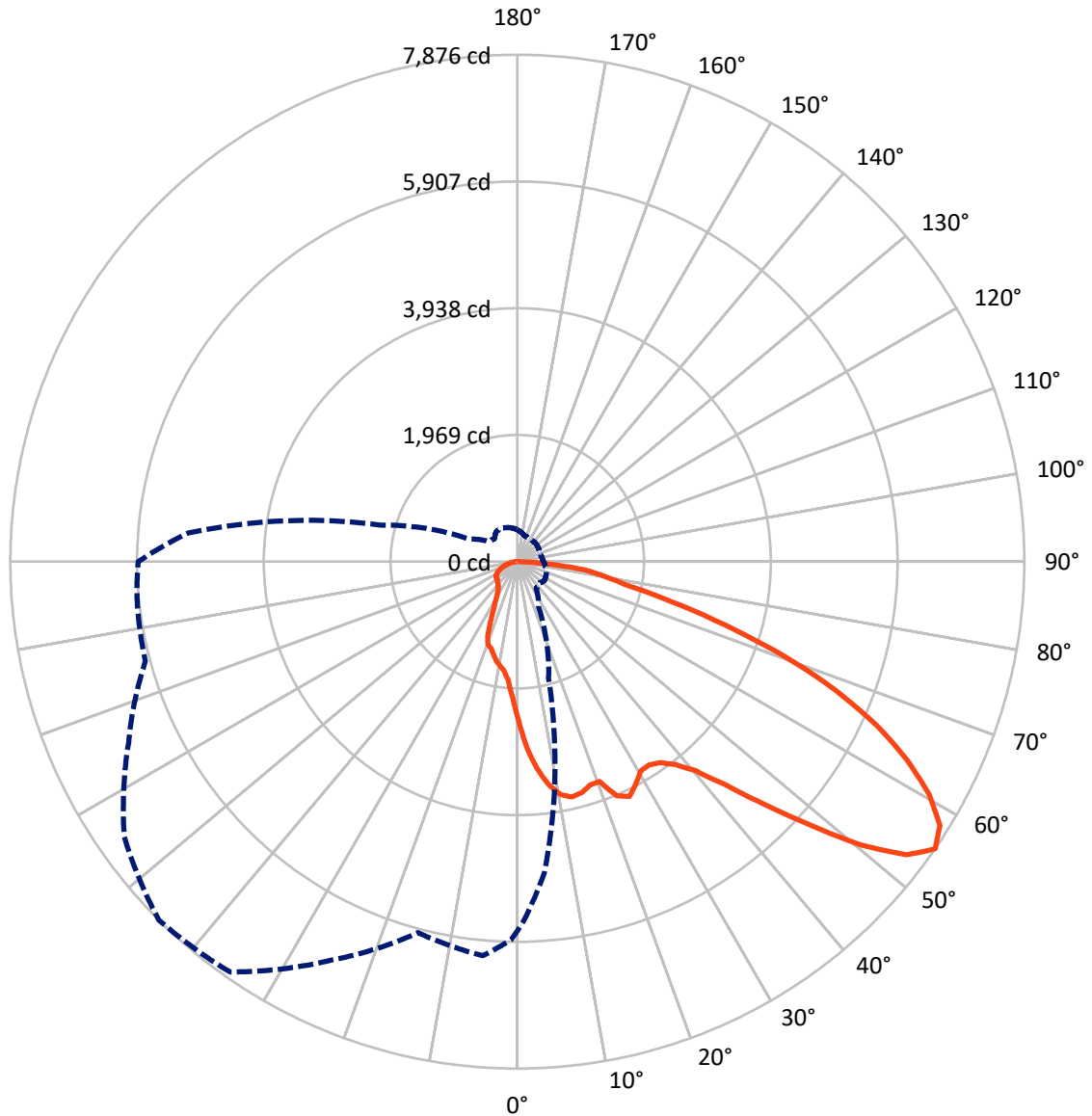
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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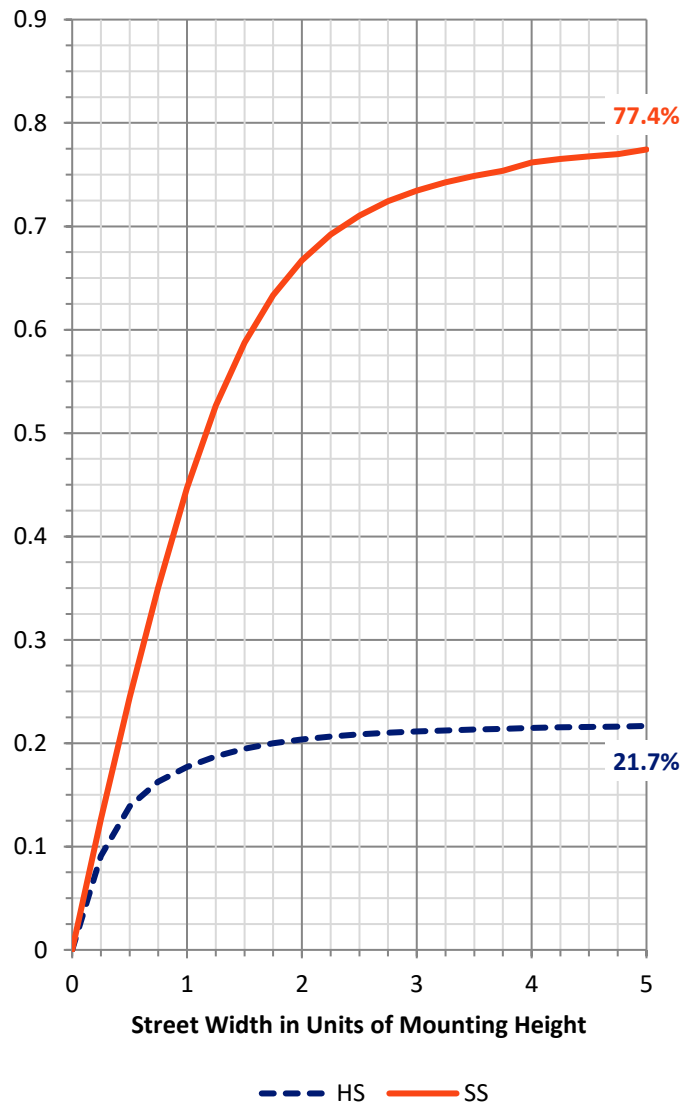
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2156.4	0.0	2156.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	7701.6	0.0	7701.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	9858.0	0.0	9858.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.7	2.1
10°-20°	556.3	5.6
20°-30°	961.0	9.7
30°-40°	1116.8	11.3
40°-50°	1558.2	15.8
50°-60°	2114.3	21.4
60°-70°	2011.5	20.4
70°-80°	1086.7	11.0
80°-90°	243.5	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°	9858.0	100.0
0°-180°	9858.0	100.0



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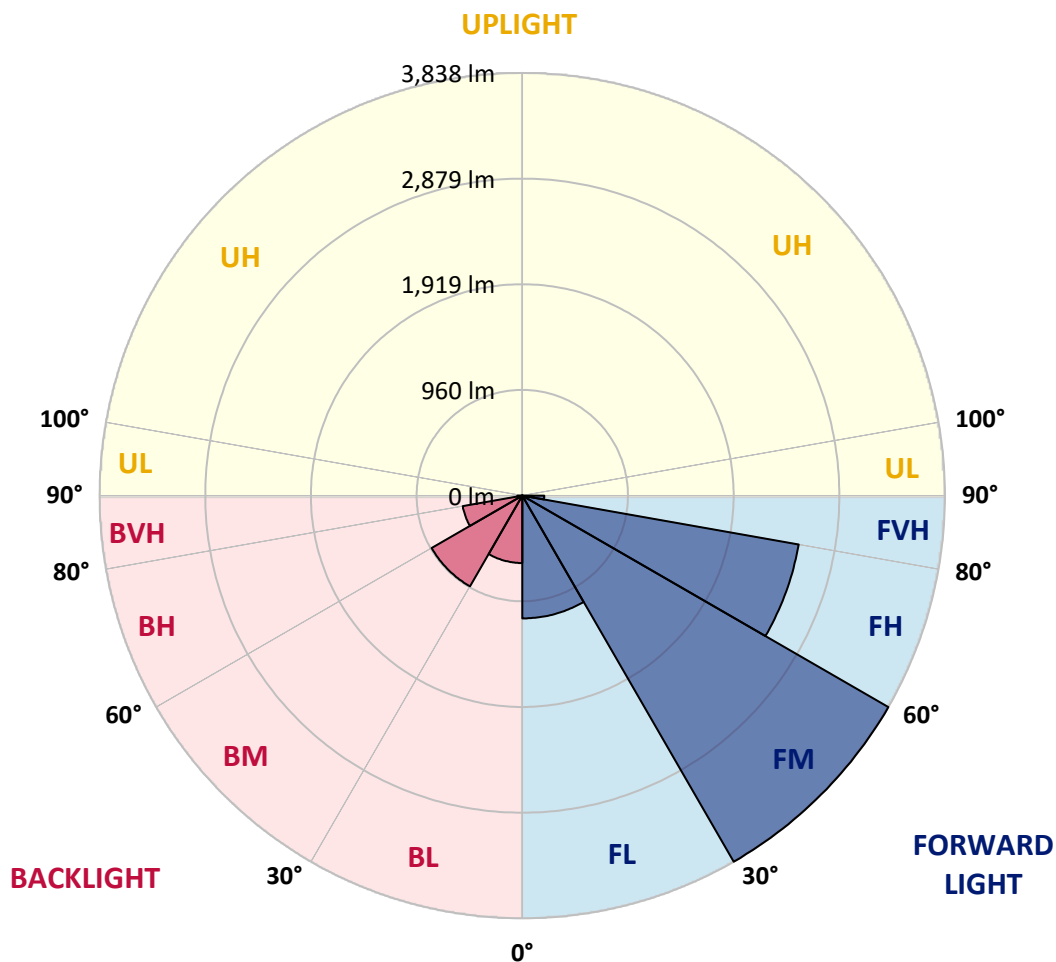
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1115.0	11.3			
FM	(30°-60°)	3838.5	38.9			
FH	(60°-80°)	2549.1	25.9			G2/5000
FVH	(80°-90°)	199.0	2.0			G2/225
BL	(0°-30°)	612.0	6.2	B2/1000		
BM	(30°-60°)	950.8	9.6	B1/1000		
BH	(60°-80°)	549.1	5.6	B2/1000		G2/1000
BVH	(80°-90°)	44.5	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0
2.5°	2748.4	2738.0	2708.8	2632.0	2554.6	2475.9	2415.4	2340.0	2261.3	2219.0	2165.1
5°	2786.1	2774.4	2705.5	2532.5	2375.8	2211.2	2079.9	1964.7	1917.9	1849.0	1793.7
7.5°	2697.7	2692.5	2589.1	2340.6	2126.0	1910.8	1761.8	1669.5	1585.6	1554.4	1560.9
10°	2617.1	2596.2	2466.8	2142.3	1891.9	1717.0	1610.3	1519.9	1460.7	1445.1	1448.4
12.5°	2550.1	2522.1	2369.3	2009.0	1789.8	1650.0	1514.0	1419.7	1365.8	1380.7	1431.4
15°	2536.4	2498.7	2328.3	1963.4	1733.9	1553.7	1404.8	1296.2	1255.8	1288.4	1369.7
17.5°	2624.9	2577.4	2398.5	1978.4	1680.5	1455.5	1272.8	1148.5	1114.7	1166.7	1272.8
20°	2909.1	2838.8	2617.7	2064.9	1675.3	1406.7	1196.0	1071.1	1085.5	1184.3	1294.9
22.5°	3434.6	3329.2	3001.4	2191.1	1702.6	1394.4	1180.4	1115.4	1194.1	1278.0	1350.8
25°	3538.6	3456.0	3070.4	2219.7	1696.8	1385.9	1224.6	1257.1	1344.9	1386.6	1361.2
27.5°	3597.1	3502.8	3065.8	2077.9	1517.3	1257.1	1170.6	1224.6	1246.7	1206.4	1137.5
30°	3733.7	3635.5	3143.2	1929.0	1249.3	932.6	817.5	795.4	810.3	818.2	793.4
32.5°	3921.7	3824.8	3288.9	1831.4	1080.2	771.3	658.2	626.9	619.8	611.3	601.6
35°	4164.9	4016.0	3432.0	1769.0	1010.7	713.4	609.4	585.3	575.6	563.9	553.5
37.5°	4412.0	4256.0	3612.8	1703.3	964.5	673.1	576.9	565.8	548.9	536.5	521.6
40°	4674.8	4499.8	3777.3	1646.1	919.6	647.1	553.5	552.2	530.0	515.7	498.2
42.5°	4902.4	4722.3	3924.3	1610.9	885.1	619.8	539.1	543.1	520.3	498.8	476.1
45°	5083.2	4906.3	4060.2	1610.9	857.2	592.5	536.5	533.9	511.2	484.5	458.5
47.5°	5241.9	5059.2	4192.9	1651.9	839.6	569.7	522.2	526.8	503.4	469.6	444.2
50°	5364.8	5203.5	4371.7	1715.7	822.1	551.5	504.0	528.7	496.9	461.8	432.5
52.5°	5521.6	5377.2	4587.0	1802.8	807.1	531.3	487.8	528.7	496.2	462.4	430.5
55°	5738.8	5586.6	4846.5	1875.0	783.0	512.5	473.5	513.8	494.3	459.2	425.3
57.5°	5891.0	5777.2	5029.9	1923.1	748.6	488.4	460.5	499.5	485.8	446.8	409.7
58°	5898.1	5786.9	5056.6	1934.2	740.1	483.9	457.2	493.0	481.9	441.6	404.5
60°	5816.2	5720.6	5061.8	1918.6	692.0	461.1	440.3	466.3	461.1	411.0	376.6
62.5°	5518.3	5416.2	4851.7	1791.7	628.2	433.1	414.3	430.5	418.8	368.1	336.2
65°	5094.9	4907.0	4419.9	1592.7	582.7	403.2	379.2	380.5	368.1	331.7	303.7
67.5°	4531.1	4321.0	3742.2	1342.3	548.3	370.1	337.5	334.3	319.3	295.9	273.2
70°	3837.1	3693.4	3041.1	1092.0	509.9	333.6	290.7	288.8	279.7	262.1	241.9
72.5°	3110.0	2927.3	2455.8	874.1	463.1	298.5	247.1	251.0	239.3	227.0	208.8
75°	2295.1	2175.5	1898.4	701.1	400.0	260.1	206.2	207.5	202.3	189.3	174.9
77.5°	1511.4	1475.7	1358.0	460.5	307.6	206.8	168.4	169.7	165.8	154.1	139.2
80°	1017.2	993.1	920.3	296.6	205.5	149.6	130.1	131.4	130.7	118.4	98.2
82.5°	626.9	616.5	593.1	200.3	142.4	107.3	85.8	89.7	96.9	83.2	67.0
85°	295.9	296.6	358.3	109.3	83.9	68.9	46.8	50.1	50.1	50.1	37.7
87.5°	38.4	40.3	49.4	46.2	30.6	26.0	16.9	14.3	12.4	16.3	11.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0
2.5°	2146.2	2133.2	2105.2	2098.7	2094.8	2105.9	2076.6	2084.4	2071.4	2107.8	2102.0
5°	1796.9	1798.2	1821.0	1836.0	1841.2	1836.0	1816.5	1782.6	1756.6	1746.2	1748.8
7.5°	1548.5	1571.3	1610.3	1653.9	1693.5	1705.2	1694.2	1629.8	1559.6	1515.3	1501.0
10°	1465.9	1496.5	1541.4	1575.8	1610.9	1638.9	1644.8	1594.7	1511.4	1406.7	1365.8
12.5°	1470.5	1512.1	1555.0	1566.1	1562.8	1573.9	1568.7	1560.2	1505.6	1372.3	1304.0
15°	1427.5	1477.0	1506.9	1501.0	1490.6	1480.9	1467.2	1445.8	1426.2	1332.6	1257.1
17.5°	1328.7	1379.4	1404.1	1406.1	1406.1	1403.5	1370.3	1362.5	1359.9	1314.4	1268.2
20°	1346.9	1374.9	1363.8	1345.6	1350.8	1368.4	1348.8	1344.9	1359.9	1380.1	1371.6
22.5°	1357.3	1347.5	1264.3	1183.7	1165.4	1220.1	1231.1	1274.7	1335.2	1408.0	1455.5
25°	1292.9	1214.2	1065.3	974.2	922.9	973.6	1039.9	1120.6	1211.0	1304.6	1359.9
27.5°	1080.9	1021.1	914.4	832.5	787.6	795.4	852.0	925.5	1009.4	1072.4	1112.8
30°	814.3	787.6	732.3	704.3	677.0	670.5	694.6	722.6	759.6	767.4	777.8
32.5°	599.6	595.7	599.0	589.9	584.7	584.0	576.9	583.4	587.3	591.8	582.7
35°	542.4	537.2	528.1	525.5	522.2	523.5	520.3	517.0	519.6	523.5	526.1
37.5°	513.1	505.3	492.3	487.8	487.8	489.7	484.5	483.2	487.8	500.1	506.6
40°	490.4	481.3	466.3	460.5	464.4	469.6	462.4	459.8	470.9	483.9	494.3
42.5°	468.9	461.8	447.4	440.9	444.2	454.0	443.5	441.6	455.9	470.2	482.6
45°	450.7	443.5	430.5	427.3	428.6	437.7	430.5	430.5	444.2	459.8	470.9
47.5°	436.4	427.3	418.8	416.2	417.5	422.7	421.4	421.4	434.4	450.7	461.8
50°	422.1	414.3	403.2	404.5	407.8	414.9	414.3	416.2	429.2	449.4	461.1
52.5°	415.6	403.9	391.5	392.8	402.6	411.0	408.4	410.4	425.3	463.1	480.0
55°	408.4	392.8	378.5	380.5	391.5	403.9	400.6	403.2	420.8	472.2	495.6
57.5°	394.8	376.6	361.0	362.3	378.5	391.5	386.3	389.6	410.4	462.4	487.1
58°	388.9	373.3	358.3	359.0	374.6	388.9	383.1	385.7	407.1	459.8	483.2
60°	364.2	355.1	342.1	342.7	357.7	370.1	366.8	369.4	390.2	440.9	458.5
62.5°	330.4	325.2	321.9	321.9	331.0	342.7	346.0	349.2	368.1	398.7	414.3
65°	294.0	294.0	294.6	294.6	300.5	315.4	317.4	325.8	343.4	358.3	370.1
67.5°	269.2	267.9	269.2	266.0	268.6	277.7	287.5	295.3	313.5	323.9	327.8
70°	237.4	236.7	237.4	232.8	236.1	243.9	250.4	263.4	282.3	290.1	292.0
72.5°	206.2	206.2	207.5	204.2	204.2	212.7	217.2	231.5	249.1	253.6	254.3
75°	173.6	175.6	175.6	171.0	172.3	177.5	183.4	195.1	211.4	214.6	214.6
77.5°	137.9	145.0	145.0	140.5	142.4	143.1	150.9	156.7	169.1	170.4	165.2
80°	100.2	107.3	113.2	109.3	112.5	108.6	113.2	117.1	129.4	123.6	115.1
82.5°	71.5	76.7	81.3	81.9	78.7	71.5	77.4	78.0	83.9	76.1	71.5
85°	39.7	44.2	50.1	47.5	42.3	37.7	39.7	41.0	40.3	38.4	35.8
87.5°	10.4	11.1	12.4	9.1	8.5	7.2	9.8	9.8	11.1	11.7	11.1
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°	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0
2.5°	2106.5	2135.1	2196.9	2243.7	2301.0	2370.6	2452.5	2535.1	2624.2	2652.2	2691.2
5°	1743.0	1814.5	1844.4	1929.6	2014.2	2141.0	2276.3	2433.0	2604.7	2687.3	2766.6
7.5°	1489.3	1527.7	1558.9	1621.3	1722.8	1876.9	2046.7	2242.4	2485.7	2606.0	2722.4
10°	1352.8	1356.7	1395.0	1472.4	1560.9	1696.8	1857.4	2076.6	2347.8	2494.1	2630.7
12.5°	1262.4	1245.4	1287.1	1367.7	1467.9	1593.4	1741.0	1949.8	2248.3	2398.5	2563.7
15°	1183.0	1156.3	1187.6	1270.2	1369.0	1516.6	1675.3	1896.5	2209.3	2384.2	2567.6
17.5°	1185.0	1111.5	1122.5	1192.1	1290.3	1440.5	1633.1	1894.5	2268.5	2470.1	2687.3
20°	1331.3	1213.6	1163.5	1176.5	1271.5	1435.3	1652.6	1985.6	2462.9	2756.9	2989.1
22.5°	1475.0	1404.1	1323.5	1296.8	1348.8	1520.5	1776.8	2200.8	2885.7	3328.5	3748.0
25°	1424.9	1485.4	1465.3	1427.5	1439.2	1581.7	1861.3	2377.7	3214.1	3712.9	4107.0
27.5°	1140.1	1250.0	1272.1	1271.5	1276.0	1393.1	1674.0	2258.7	3255.1	3786.4	4163.0
30°	801.2	811.0	822.7	845.5	866.3	971.0	1309.8	1983.0	3236.8	3819.6	4196.8
32.5°	578.2	591.2	607.4	638.7	688.1	821.4	1145.9	1895.2	3333.1	3956.8	4295.6
35°	528.7	543.7	559.3	595.1	641.9	765.5	1080.9	1858.7	3491.1	4179.2	4473.2
37.5°	513.1	530.0	543.7	569.7	607.4	725.2	1021.7	1834.0	3653.1	4414.6	4711.2
40°	502.1	521.6	532.6	553.5	579.5	688.1	969.0	1814.5	3809.8	4629.9	4902.4
42.5°	492.3	512.5	526.8	541.8	563.2	654.9	922.2	1795.0	3945.7	4838.7	5093.0
45°	480.6	506.0	524.2	535.9	554.8	626.9	886.4	1779.4	4100.5	5024.0	5285.5
47.5°	470.9	498.8	521.6	535.2	542.4	607.4	857.8	1800.8	4286.5	5217.8	5464.3
50°	471.5	498.2	526.8	548.3	529.4	591.2	840.3	1886.0	4528.5	5448.1	5605.5
52.5°	492.3	524.8	547.6	552.8	511.2	571.7	831.2	2035.0	4814.6	5651.6	5747.9
55°	515.7	549.6	574.3	571.0	501.4	547.0	829.2	2193.7	5128.1	5889.0	5933.2
57.5°	507.3	556.7	594.4	577.5	502.1	522.9	820.8	2321.8	5390.2	6066.6	6116.6
58°	504.7	554.1	597.0	576.2	500.1	515.7	818.8	2332.8	5426.6	6078.9	6142.7
60°	479.3	531.3	595.1	566.5	489.1	496.2	797.3	2368.6	5416.9	6015.2	6158.3
62.5°	433.1	476.1	550.2	519.0	455.3	470.2	749.2	2324.4	5152.8	5708.2	5930.0
65°	381.1	413.0	462.4	456.6	407.1	443.5	683.5	2149.4	4624.1	5210.0	5443.5
67.5°	342.1	368.1	399.3	390.9	366.2	407.8	612.6	1853.5	4030.9	4611.7	4905.7
70°	302.4	322.6	338.2	332.3	324.5	372.7	549.6	1504.3	3462.5	4043.3	4328.2
72.5°	262.1	281.0	294.0	285.5	281.0	335.6	498.2	1167.4	2734.8	3335.7	3701.9
75°	219.2	238.0	247.1	237.4	234.8	295.9	422.1	872.1	2051.9	2571.5	2887.6
77.5°	169.7	189.9	201.6	198.4	199.7	243.2	340.8	597.0	1467.2	1752.7	2085.7
80°	119.0	141.1	148.9	145.7	154.8	185.4	240.6	379.2	1012.0	1137.5	1372.3
82.5°	73.5	94.3	95.6	98.9	105.4	137.2	181.5	230.9	635.4	656.9	827.3
85°	37.1	44.9	48.1	53.3	59.2	83.9	103.4	143.1	409.1	309.6	462.4
87.5°	12.4	13.0	15.6	19.5	24.1	34.5	44.2	58.5	101.5	55.9	143.1
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°	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0
2.5°	2769.9	2825.2	2865.5	2902.6	2866.8	2863.5	2828.4	2771.8	2748.4	2748.4
5°	2933.1	3062.5	3167.3	3234.2	3205.6	3136.7	3022.9	2877.8	2799.8	2786.1
7.5°	2978.0	3233.6	3428.1	3497.0	3448.9	3296.7	3078.8	2834.3	2722.4	2697.7
10°	2950.7	3283.0	3568.5	3677.8	3610.8	3380.6	3083.4	2783.5	2645.7	2617.1
12.5°	2922.1	3289.5	3594.5	3752.6	3709.0	3448.2	3116.5	2750.4	2591.0	2550.1
15°	2942.9	3292.1	3562.7	3725.9	3753.9	3529.5	3171.2	2774.4	2580.0	2536.4
17.5°	3074.3	3341.6	3517.2	3649.2	3747.4	3640.1	3326.6	2889.6	2678.8	2624.9
20°	3348.7	3459.9	3543.2	3645.3	3803.3	3865.7	3644.6	3205.6	2956.5	2909.1
22.5°	4143.4	4123.3	3952.9	3950.9	4179.9	4430.3	4415.3	3848.2	3473.6	3434.6
25°	4441.3	4347.7	4101.2	4041.3	4142.1	4528.5	4472.5	3979.6	3633.6	3538.6
27.5°	4324.9	4092.7	3930.8	3917.1	3884.0	4248.8	4383.4	4032.9	3689.5	3597.1
30°	4317.7	3976.3	3744.8	3772.1	3804.0	4152.6	4432.9	4200.0	3832.6	3733.7
32.5°	4335.3	3992.6	3758.4	3763.6	3858.6	4166.9	4487.5	4382.1	4020.5	3921.7
35°	4406.2	4084.9	3845.6	3833.2	3981.5	4260.5	4580.5	4668.3	4277.4	4164.9
37.5°	4520.7	4269.0	4004.9	4001.7	4216.9	4429.6	4696.3	4957.1	4533.0	4412.0
40°	4689.1	4484.2	4288.5	4270.9	4536.9	4704.7	4846.5	5264.7	4830.2	4674.8
42.5°	4892.7	4742.4	4662.4	4732.0	4987.6	5013.6	5080.6	5548.9	5083.2	4902.4
45°	5081.3	5074.1	5185.3	5370.0	5519.0	5362.9	5325.2	5739.4	5279.6	5083.2
47.5°	5305.6	5499.5	5835.0	6105.6	6261.7	5769.4	5533.9	5863.7	5422.7	5241.9
50°	5533.3	6008.7	6544.6	6921.8	6955.0	6210.9	5677.7	5980.7	5552.8	5364.8
52.5°	5772.6	6415.2	7128.6	7566.9	7502.6	6595.3	5816.8	6060.1	5686.8	5521.6
55°	5980.7	6664.2	7455.1	7875.9	7781.6	6829.4	5967.1	6145.9	5878.0	5738.8
57.5°	6097.1	6685.1	7373.8	7741.2	7639.1	6783.9	6036.0	6209.6	6000.2	5891.0
58°	6114.0	6657.1	7301.6	7663.2	7559.1	6745.5	6035.3	6207.0	6008.0	5898.1
60°	6099.1	6475.6	7033.0	7354.9	7245.7	6504.9	6010.6	6158.3	5909.2	5816.2
62.5°	5960.6	6160.9	6569.3	6803.4	6772.2	6129.0	5909.2	5974.2	5608.1	5518.3
65°	5778.5	5731.6	5975.5	6141.4	6164.8	5847.4	5808.4	5576.2	5221.7	5094.9
67.5°	5557.3	5245.2	5244.5	5338.8	5377.8	5414.3	5598.3	5143.7	4665.0	4531.1
70°	5182.1	4495.3	4288.5	4399.7	4367.2	4674.8	5223.0	4536.3	3993.9	3837.1
72.5°	4494.0	3567.2	3236.2	3379.3	3297.3	3666.1	4570.1	3733.1	3302.5	3110.0
75°	3642.7	2668.4	2327.0	2458.4	2407.6	2780.9	3802.7	2711.4	2368.6	2295.1
77.5°	2828.4	1933.5	1735.2	1717.0	1754.7	2069.4	2789.4	1830.8	1561.5	1511.4
80°	1817.1	1384.0	1395.7	1372.3	1391.8	1304.6	1693.5	1168.0	1057.5	1017.2
82.5°	1196.0	964.5	1149.8	1061.4	1008.1	877.3	1110.8	764.8	649.1	626.9
85°	814.9	710.2	646.5	494.3	582.1	675.7	833.1	411.7	326.5	295.9
87.5°	368.1	247.1	181.5	111.9	176.9	204.2	404.5	48.1	37.1	38.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)