

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: P451131

Luminaire Tested: **GALN-SA2A-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451131
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-SA2A-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 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: 6630 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

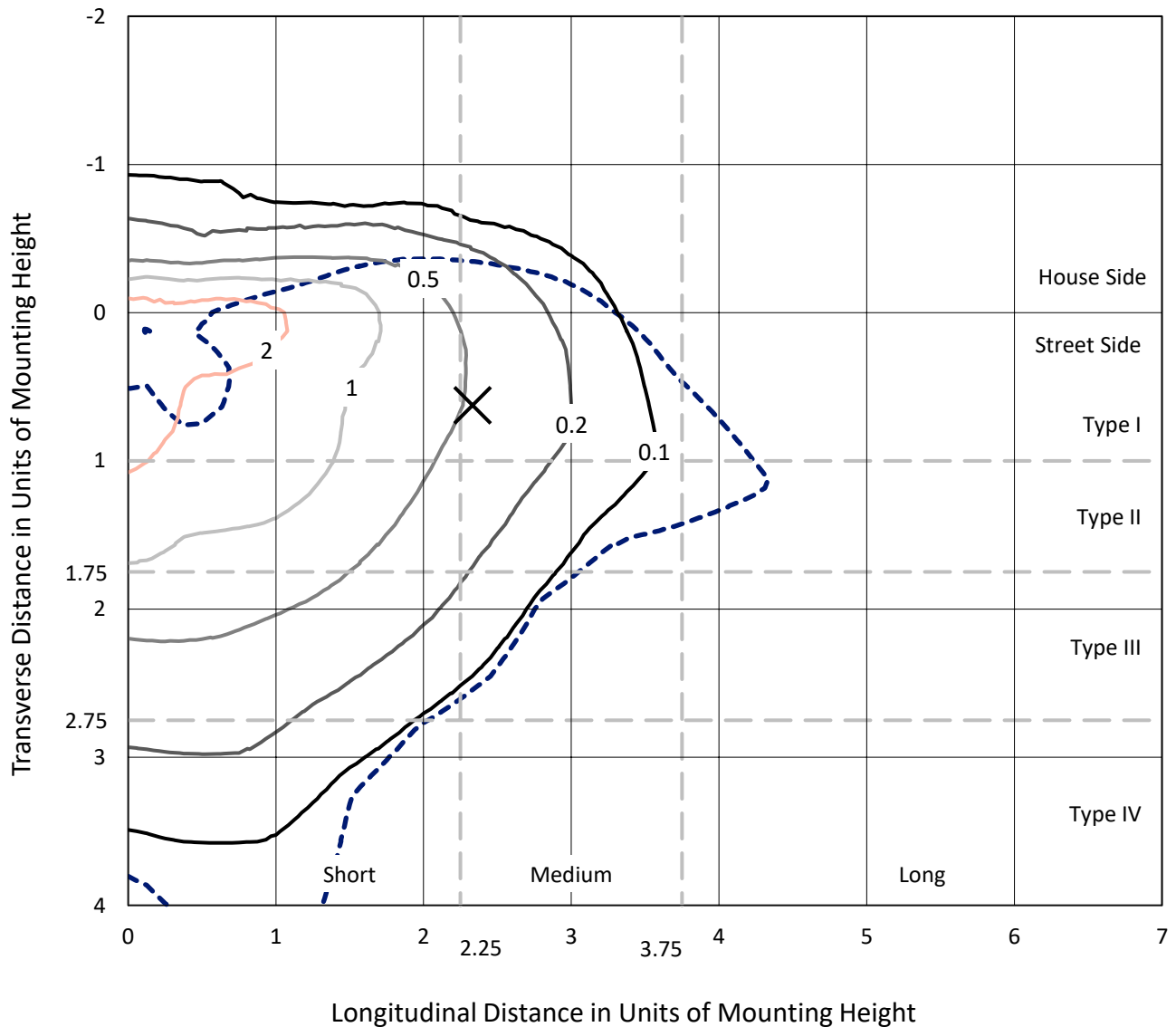
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

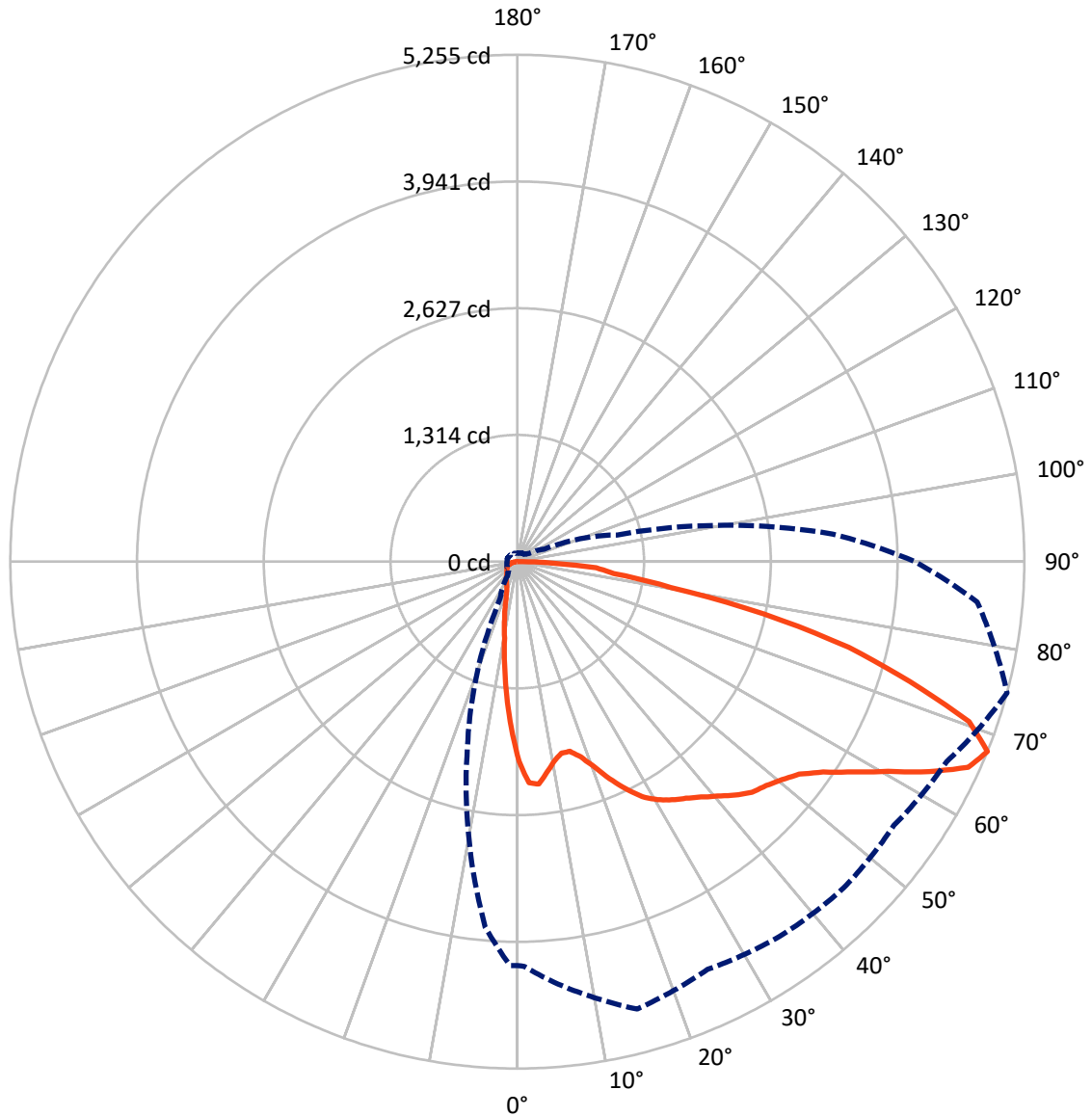
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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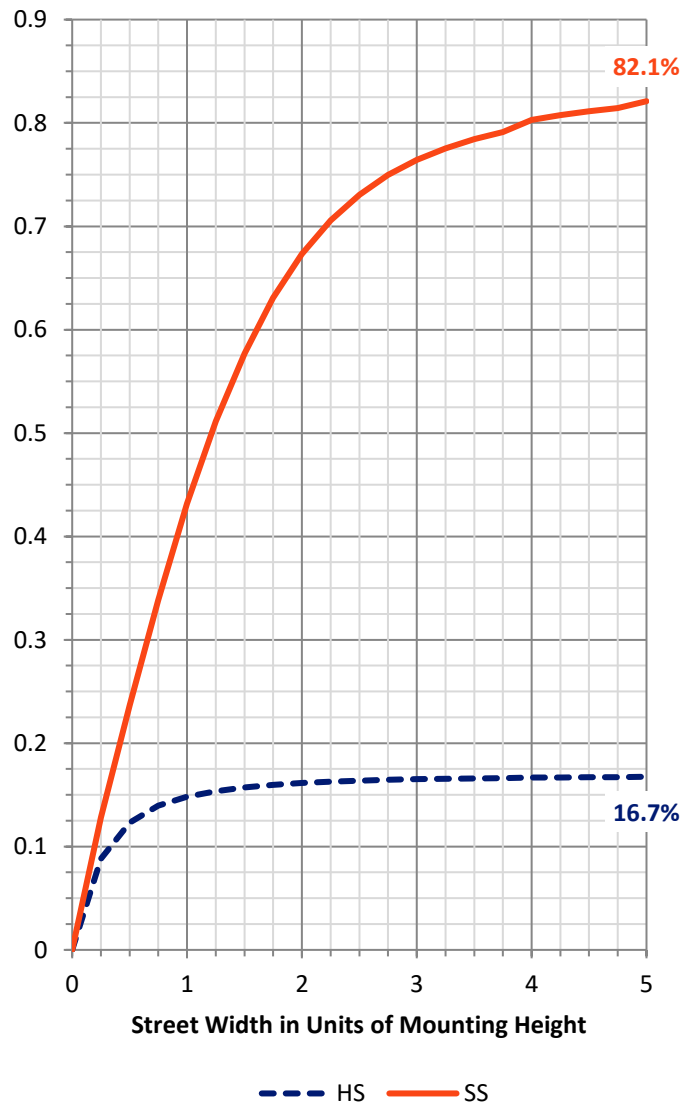
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1120.6	0.0	1120.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	5509.4	0.0	5509.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	6630.0	0.0	6630.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.1	2.4
10°-20°	327.7	4.9
20°-30°	471.5	7.1
30°-40°	679.1	10.2
40°-50°	953.9	14.4
50°-60°	1330.4	20.1
60°-70°	1581.8	23.9
70°-80°	931.6	14.1
80°-90°	197.0	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°	6630.0	100.0
0°-180°	6630.0	100.0



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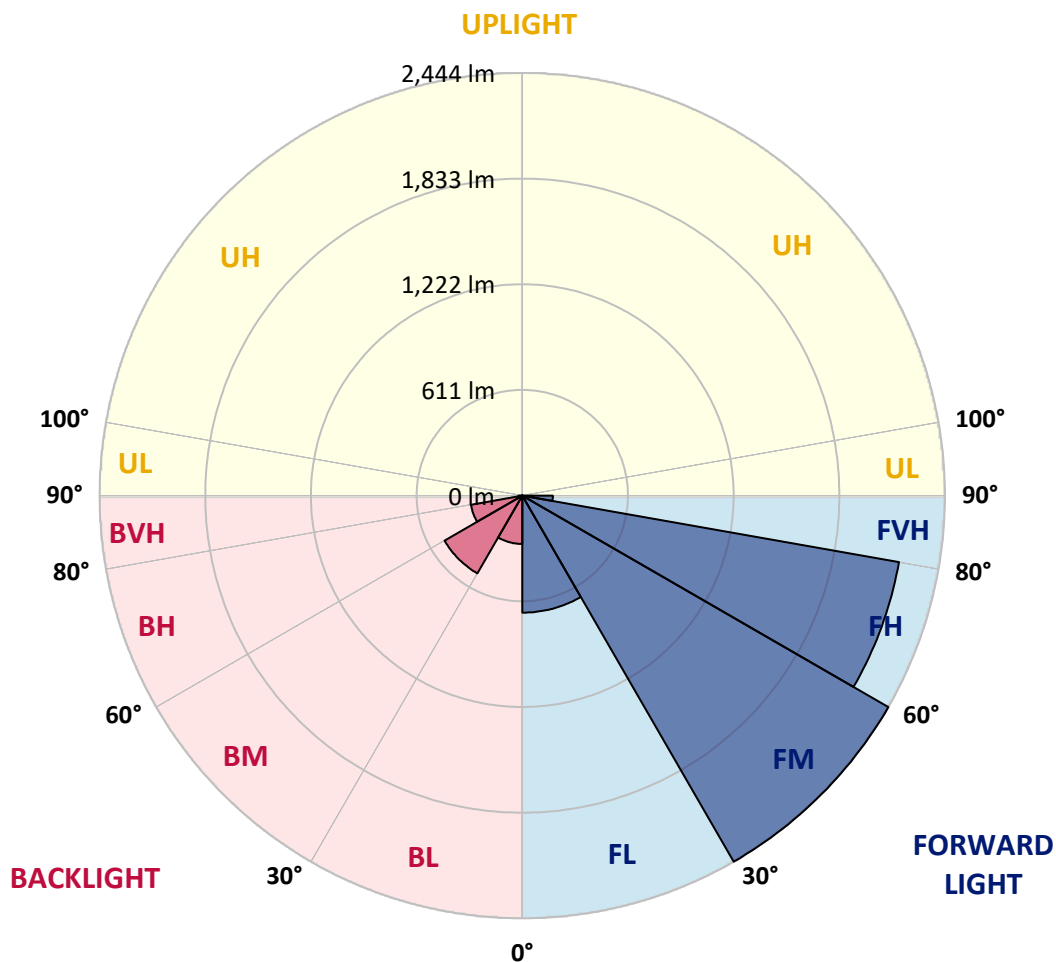
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	676.7	10.2			
FM (30°-60°)	2444.2	36.9			
FH (60°-80°)	2211.8	33.4			G2/5000
FVH (80°-90°)	176.6	2.7			G2/225
BL (0°-30°)	279.5	4.2	B1/500		
BM (30°-60°)	519.2	7.8	B1/1000		
BH (60°-80°)	301.5	4.5	B1/500		G1/500
BVH (80°-90°)	20.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4
2.5°	2233.4	2236.3	2255.5	2311.2	2349.4	2363.5	2373.2	2354.9	2337.1	2293.7	2228.3
5°	2226.6	2244.0	2293.7	2418.7	2517.4	2559.9	2572.6	2517.8	2427.2	2315.8	2181.9
7.5°	2096.5	2119.8	2196.4	2406.0	2579.9	2679.3	2666.2	2567.1	2403.8	2205.3	2018.2
10°	1942.1	1968.1	2060.3	2313.7	2537.8	2674.7	2674.7	2553.9	2337.1	2101.1	1885.6
12.5°	1819.7	1846.9	1952.3	2218.9	2450.2	2579.9	2601.5	2497.8	2289.0	2035.2	1798.4
15°	1779.3	1805.6	1919.2	2161.5	2357.5	2436.6	2443.8	2409.8	2265.7	2039.9	1794.6
17.5°	1829.5	1863.5	1978.3	2178.5	2272.5	2277.1	2282.7	2309.5	2268.2	2125.4	1872.0
20°	1974.4	2011.0	2130.9	2233.4	2198.1	2149.6	2152.6	2221.4	2298.4	2266.5	2056.9
22.5°	2183.6	2215.5	2338.4	2329.9	2166.6	2066.7	2045.9	2141.9	2343.0	2442.5	2253.8
25°	2409.4	2446.8	2587.9	2473.1	2175.5	2017.4	2004.2	2095.2	2389.4	2607.1	2481.2
27.5°	2667.9	2704.4	2815.8	2617.7	2222.3	2013.5	1997.8	2090.9	2431.1	2759.3	2698.5
30°	2860.0	2893.6	2969.3	2739.3	2279.7	2039.1	2019.5	2124.5	2466.8	2863.4	2910.2
32.5°	3011.0	3045.8	3087.1	2815.0	2355.4	2085.4	2049.3	2185.7	2513.5	2942.9	3067.1
35°	3168.3	3209.5	3206.5	2882.1	2426.0	2139.0	2103.7	2274.2	2587.1	3012.2	3266.1
37.5°	3367.7	3384.3	3363.0	2942.5	2510.6	2235.5	2215.9	2405.5	2691.7	3096.0	3498.6
40°	3570.1	3603.2	3493.9	3015.6	2613.4	2417.0	2414.9	2599.8	2815.8	3194.2	3724.0
42.5°	3743.5	3771.6	3616.4	3079.4	2738.0	2638.5	2654.7	2860.5	2978.7	3308.2	3905.1
45°	3874.0	3899.1	3729.5	3141.1	2902.1	2894.5	2989.7	3139.8	3184.0	3410.6	4011.4
47.5°	3985.0	4009.2	3808.1	3234.6	3104.9	3200.2	3366.0	3431.0	3359.6	3469.3	4130.4
50°	4078.5	4085.8	3862.1	3346.0	3356.6	3574.7	3735.4	3777.5	3533.1	3553.5	4233.7
52.5°	4175.9	4166.5	3955.2	3486.3	3628.7	3930.2	4047.1	4090.9	3699.3	3657.2	4384.2
55°	4394.0	4402.9	4164.0	3663.2	3903.8	4279.2	4433.1	4391.0	3883.4	3848.1	4575.5
57.5°	4657.6	4650.0	4457.8	3939.9	4184.0	4604.0	4718.8	4651.2	4129.1	4110.4	4769.4
60°	4760.1	4770.3	4703.5	4237.5	4460.3	4888.5	5005.8	4900.8	4423.8	4415.3	4915.7
62.5°	4657.2	4714.6	4759.6	4502.4	4695.9	5097.6	5214.1	5094.2	4731.2	4792.8	5018.1
65°	4452.3	4464.6	4618.1	4726.9	4809.4	5132.1	5192.9	5129.1	4988.0	5136.8	5013.5
67.5°	4186.1	4196.7	4376.6	4800.5	4663.1	4740.9	4783.5	4764.7	4908.4	5254.5	4782.6
70°	3932.7	3924.2	4114.3	4613.0	4059.4	3941.2	3976.5	3917.8	4235.4	4966.7	4329.8
72.5°	3439.5	3470.1	3674.2	4091.7	3214.2	3022.0	3099.0	2947.2	3257.6	4253.7	3514.4
75°	2694.2	2701.5	3042.0	3434.0	2424.7	2121.5	2225.7	2162.4	2495.3	3548.4	2426.8
77.5°	1865.6	1849.4	2215.5	2622.8	1729.1	1553.1	1554.8	1524.6	1742.3	2612.6	1648.8
80°	1184.9	1160.3	1386.9	1620.3	1188.3	1271.2	1229.6	1228.3	1134.3	1611.8	997.0
82.5°	640.3	667.5	876.3	1015.7	852.4	982.5	900.5	874.1	778.5	1008.9	637.7
85°	291.7	317.2	467.2	690.9	647.5	654.7	437.5	516.1	644.1	819.3	340.6
87.5°	28.5	36.6	96.5	326.1	221.1	174.3	65.0	125.4	162.0	291.2	27.2
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°	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4
2.5°	2201.5	2179.4	2104.1	2042.0	1976.1	1926.0	1860.5	1816.7	1786.5	1741.0	1735.5
5°	2100.3	2046.3	1915.3	1781.8	1666.6	1579.9	1491.9	1411.1	1363.5	1348.6	1329.5
7.5°	1929.8	1838.8	1670.4	1517.4	1385.2	1255.9	1156.4	1085.9	1038.7	1011.0	977.9
10°	1789.5	1684.1	1479.1	1291.6	1182.8	1102.4	1014.9	939.2	880.9	831.2	804.0
12.5°	1695.1	1576.1	1345.6	1193.4	1109.2	1023.8	921.3	836.3	750.4	693.9	669.6
15°	1666.6	1540.8	1304.4	1144.5	1023.8	912.0	797.2	686.2	601.2	547.6	529.7
17.5°	1736.3	1584.1	1304.0	1079.5	923.4	789.9	642.8	538.7	451.5	411.6	398.8
20°	1866.4	1667.5	1307.8	1015.3	814.6	626.7	467.7	382.2	340.6	323.5	317.2
22.5°	2048.0	1794.6	1319.3	951.9	695.6	481.3	350.3	307.0	292.1	289.1	287.8
25°	2271.6	1951.9	1358.0	895.0	595.2	367.3	292.9	273.4	264.9	261.9	261.5
27.5°	2477.4	2155.1	1404.7	846.1	498.3	316.7	264.9	248.3	239.8	239.4	240.2
30°	2663.2	2325.2	1443.8	791.2	424.7	281.5	246.6	230.0	221.9	221.5	224.1
32.5°	2823.9	2465.1	1472.7	737.2	383.9	259.8	230.0	212.2	205.4	204.1	205.4
35°	2995.7	2604.5	1459.6	695.1	360.5	241.9	217.7	200.2	192.2	188.3	188.3
37.5°	3191.7	2748.2	1437.0	660.3	349.9	227.0	207.1	190.0	182.0	178.1	177.7
40°	3405.5	2891.9	1406.0	629.2	339.3	218.1	199.8	182.0	172.2	168.4	167.5
42.5°	3594.3	3014.8	1380.5	608.8	321.8	219.8	193.4	176.0	163.7	158.6	158.2
45°	3758.4	3138.5	1375.8	596.9	307.4	217.3	191.7	171.3	156.9	151.4	150.5
47.5°	3886.8	3267.3	1402.6	590.1	291.7	203.7	202.8	168.4	150.9	145.0	144.1
50°	4043.3	3450.2	1463.8	576.1	277.2	190.9	214.3	167.9	146.3	138.6	136.5
52.5°	4251.6	3688.2	1546.7	551.0	256.4	179.0	204.5	167.9	140.7	133.1	130.5
55°	4566.6	3991.8	1627.9	515.7	227.0	163.3	184.5	162.8	132.6	125.8	124.1
57.5°	4775.4	4213.7	1679.8	466.8	190.5	151.8	159.0	154.8	124.6	117.3	117.3
60°	4786.0	4273.3	1655.1	405.2	167.5	141.2	138.2	156.0	117.3	109.7	108.8
62.5°	4663.6	4127.4	1526.7	349.9	155.2	129.7	125.0	136.9	110.1	102.5	101.2
65°	4472.2	3755.4	1304.0	323.5	148.4	119.5	112.7	112.2	102.5	95.2	93.5
67.5°	4120.6	3281.8	1071.4	308.2	145.0	108.0	101.6	99.5	93.5	87.6	86.7
70°	3602.4	2748.6	859.2	301.9	143.3	96.1	91.0	88.4	83.3	78.7	78.2
72.5°	2802.6	2229.5	709.2	297.6	142.4	85.0	79.5	76.1	73.1	68.9	68.9
75°	2013.1	1640.3	541.2	268.3	131.8	73.1	67.2	65.0	60.8	57.4	58.2
77.5°	1269.1	1104.6	356.3	197.3	102.0	58.7	53.6	52.3	48.9	44.2	47.2
80°	857.1	776.8	207.9	124.1	64.2	42.9	41.2	40.8	37.0	31.9	32.3
82.5°	583.3	572.3	108.0	70.6	37.0	25.1	24.2	25.1	20.8	17.0	17.0
85°	227.9	311.2	51.0	27.6	11.9	3.8	5.5	6.0	3.4	1.7	2.1
87.5°	4.3	31.9	1.3	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°	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4
2.5°	1727.0	1723.2	1729.5	1702.3	1707.9	1718.1	1723.2	1726.1	1768.2	1758.5	1785.2
5°	1347.3	1343.5	1368.2	1371.6	1384.3	1381.8	1394.1	1397.1	1412.4	1417.9	1455.3
7.5°	980.0	996.6	1024.6	1039.1	1060.8	1067.6	1061.2	1076.9	1045.0	1068.0	1074.8
10°	787.4	767.4	755.5	788.7	792.9	824.4	811.6	801.4	820.1	821.0	838.8
12.5°	655.6	612.7	584.2	593.5	603.7	617.3	619.5	639.9	653.5	666.2	676.9
15°	514.0	499.1	473.2	460.4	474.9	480.4	493.6	510.6	525.1	528.9	543.4
17.5°	394.5	397.1	392.8	385.2	394.1	398.4	399.2	399.6	403.5	400.9	422.2
20°	317.6	326.5	337.2	338.9	341.8	344.0	340.1	325.7	326.1	335.0	341.8
22.5°	287.4	289.1	301.0	304.8	314.2	310.4	299.3	292.5	291.7	293.8	297.2
25°	263.6	266.1	274.7	280.6	287.8	281.0	273.0	266.6	265.7	267.8	271.3
27.5°	242.3	246.2	253.8	259.8	266.6	260.2	252.5	247.0	246.6	246.2	248.3
30°	225.3	229.6	235.1	241.9	246.6	241.1	233.8	230.9	230.4	229.6	230.4
32.5°	208.3	215.1	220.7	224.1	228.7	224.5	219.0	217.3	214.3	211.7	210.5
35°	189.2	196.4	204.9	209.2	213.9	209.6	205.8	198.5	193.4	193.0	193.9
37.5°	178.1	181.1	187.9	195.1	199.8	197.7	190.5	183.2	182.0	182.0	182.8
40°	168.4	169.6	172.6	182.0	190.5	184.1	175.2	173.0	173.0	172.6	173.0
42.5°	158.6	159.9	159.9	167.1	180.7	170.5	163.7	163.7	163.7	164.1	165.4
45°	149.7	150.1	149.7	154.8	167.5	159.0	154.3	155.6	156.5	157.3	158.2
47.5°	142.0	142.4	142.0	146.3	152.6	149.2	146.7	148.4	150.1	151.4	152.2
50°	135.2	134.8	135.6	138.2	141.2	142.0	140.3	142.9	143.7	145.4	147.5
52.5°	129.2	128.8	129.7	130.9	135.2	135.2	135.2	137.3	139.0	140.7	143.7
55°	122.4	122.9	124.1	125.8	131.4	130.5	130.9	132.6	134.3	136.9	138.6
57.5°	116.1	116.9	118.6	121.2	126.7	126.3	126.7	127.5	129.7	130.9	132.6
60°	108.8	110.5	112.7	114.4	119.9	119.5	121.6	123.3	124.6	124.6	125.4
62.5°	101.6	104.2	106.3	107.6	113.5	113.9	116.9	118.2	119.0	118.2	119.5
65°	94.4	98.2	99.1	100.8	106.7	107.1	110.5	113.5	112.7	111.8	113.9
67.5°	87.2	91.8	91.4	93.5	99.5	100.3	103.3	108.4	106.7	105.9	107.6
70°	79.1	82.5	82.9	84.2	92.3	91.0	95.7	100.3	99.1	99.5	99.5
72.5°	70.2	73.1	73.1	75.7	84.2	82.1	85.9	91.0	91.0	90.6	90.6
75°	59.5	61.2	62.9	66.7	75.7	73.1	75.7	80.4	81.2	80.4	80.4
77.5°	48.0	50.6	51.4	56.5	62.9	62.5	65.0	67.2	68.9	68.0	68.0
80°	34.0	36.6	40.0	45.5	49.3	50.6	51.9	53.6	54.4	54.4	55.3
82.5°	19.1	23.0	25.9	31.5	33.2	39.5	39.1	40.4	39.1	34.4	38.3
85°	4.3	8.1	11.5	14.5	16.6	23.0	24.2	27.2	22.5	20.8	20.8
87.5°	0.0	0.0	0.0	0.0	0.0	3.4	6.8	9.4	8.1	6.8	6.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4
2.5°	1807.8	1844.8	1889.4	1966.4	2020.3	2078.6	2137.3	2199.8	2216.3	2233.4
5°	1465.5	1538.2	1577.8	1681.1	1789.5	1927.2	2039.9	2163.2	2214.6	2226.6
7.5°	1110.1	1159.4	1263.1	1367.7	1502.1	1646.6	1819.3	2011.4	2071.4	2096.5
10°	880.1	947.3	1038.2	1150.5	1268.2	1423.9	1618.6	1843.1	1928.1	1942.1
12.5°	749.1	824.0	923.0	1041.6	1153.0	1270.4	1466.8	1698.5	1789.5	1819.7
15°	599.0	689.6	804.0	929.0	1050.1	1178.5	1377.5	1639.0	1744.0	1779.3
17.5°	470.6	543.8	667.5	803.1	946.8	1109.2	1358.8	1667.5	1796.7	1829.5
20°	360.1	412.4	516.6	659.8	828.2	1040.8	1363.5	1775.0	1929.8	1974.4
22.5°	311.2	338.0	401.3	537.8	726.2	981.3	1382.6	1922.6	2109.2	2183.6
25°	281.9	295.9	331.6	420.9	628.8	923.4	1426.4	2121.1	2360.1	2409.4
27.5°	256.8	267.0	289.1	353.3	540.4	869.9	1477.4	2341.3	2594.3	2667.9
30°	233.0	246.6	267.4	313.8	483.8	821.0	1541.6	2519.9	2791.6	2860.0
32.5°	214.7	228.3	247.4	286.1	435.8	769.5	1579.9	2676.8	2952.7	3011.0
35°	199.8	211.3	231.3	264.0	399.2	730.4	1572.2	2801.4	3108.8	3168.3
37.5°	189.2	199.0	219.0	243.2	371.6	689.6	1568.4	2965.9	3298.8	3367.7
40°	179.4	189.6	207.9	229.6	344.0	641.6	1570.5	3129.2	3501.2	3570.1
42.5°	171.8	183.2	198.1	225.8	315.5	602.9	1570.5	3271.2	3677.2	3743.5
45°	165.4	177.7	192.2	225.3	292.9	573.5	1559.9	3393.2	3817.5	3874.0
47.5°	159.9	173.5	194.3	217.7	287.4	552.3	1550.6	3491.0	3931.9	3985.0
50°	156.0	172.2	206.6	208.8	289.1	545.9	1595.6	3614.3	4032.6	4078.5
52.5°	153.1	172.6	206.2	195.6	286.1	550.2	1689.6	3806.9	4172.5	4175.9
55°	147.1	172.2	195.6	180.7	273.8	557.4	1810.3	4086.6	4391.5	4394.0
57.5°	141.2	167.5	181.5	167.9	248.7	557.4	1955.7	4351.5	4655.5	4657.6
60°	135.2	174.3	159.4	156.9	216.0	547.2	2109.2	4468.0	4738.4	4760.1
62.5°	129.2	175.6	142.4	147.1	192.2	522.5	2223.6	4339.2	4626.1	4657.2
65°	122.4	141.6	131.4	136.9	179.8	481.3	2187.4	4103.2	4415.3	4452.3
67.5°	114.4	119.9	119.5	126.3	175.6	420.5	1997.0	3804.7	4188.2	4186.1
70°	104.6	107.6	108.8	116.1	167.5	373.3	1664.1	3417.4	3885.1	3932.7
72.5°	94.4	96.9	98.2	104.6	159.4	346.5	1291.6	2883.8	3365.1	3439.5
75°	83.3	85.0	86.7	92.3	150.9	307.0	920.0	2201.5	2577.3	2694.2
77.5°	71.9	71.9	74.0	79.5	127.1	253.4	617.3	1544.2	1746.1	1865.6
80°	58.2	58.7	57.8	63.8	93.5	173.5	350.8	1031.4	1162.0	1184.9
82.5°	44.6	43.4	43.8	46.8	69.7	118.2	187.1	640.7	653.0	640.3
85°	28.1	28.1	27.2	30.6	44.6	61.6	102.0	392.4	306.5	291.7
87.5°	11.5	9.4	10.6	12.3	21.3	25.1	40.0	80.8	31.0	28.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)