

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: P453219

Luminaire Tested: **GALN-SA4B-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453219
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-SA4B-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA 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: 16227 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

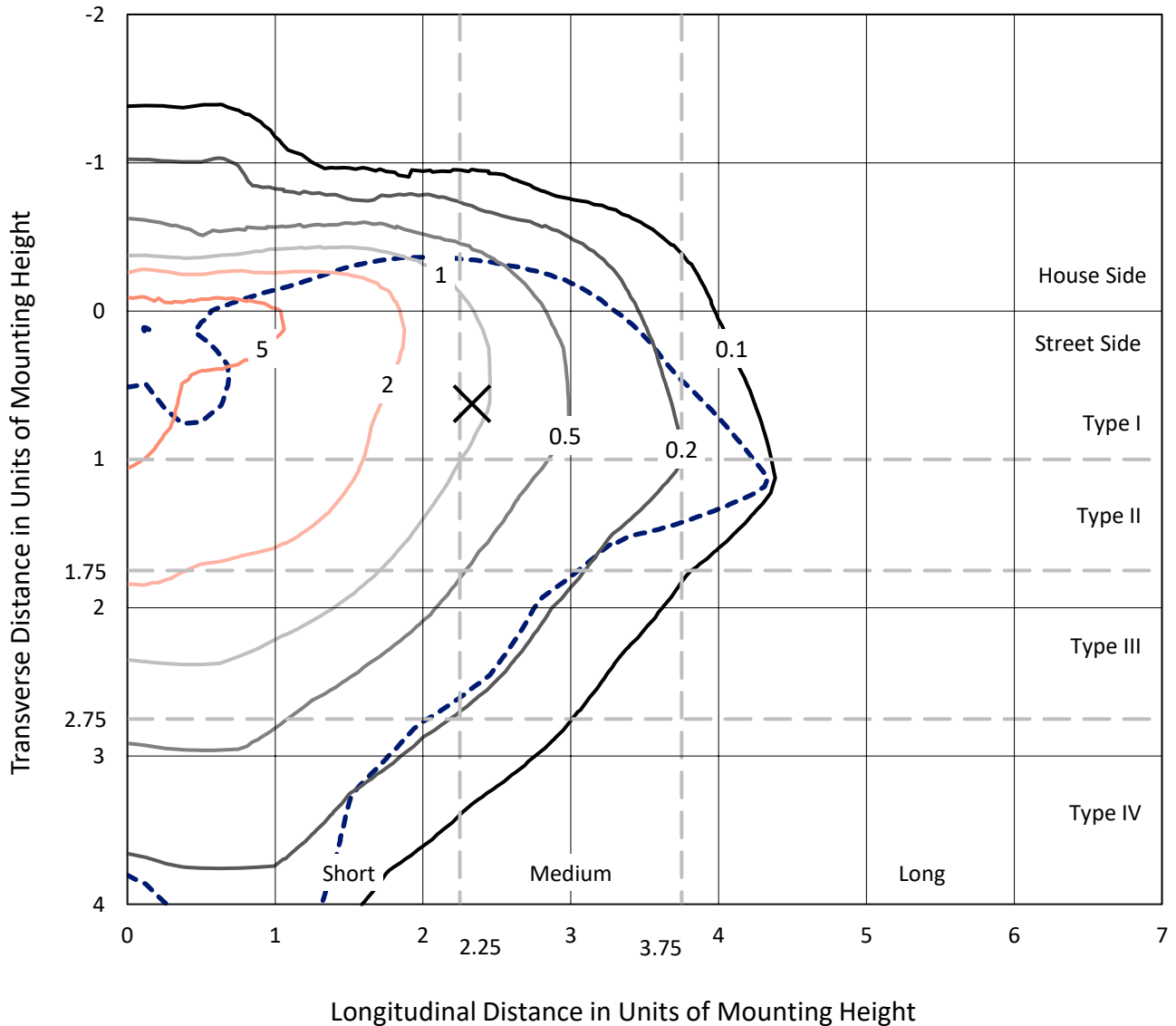
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

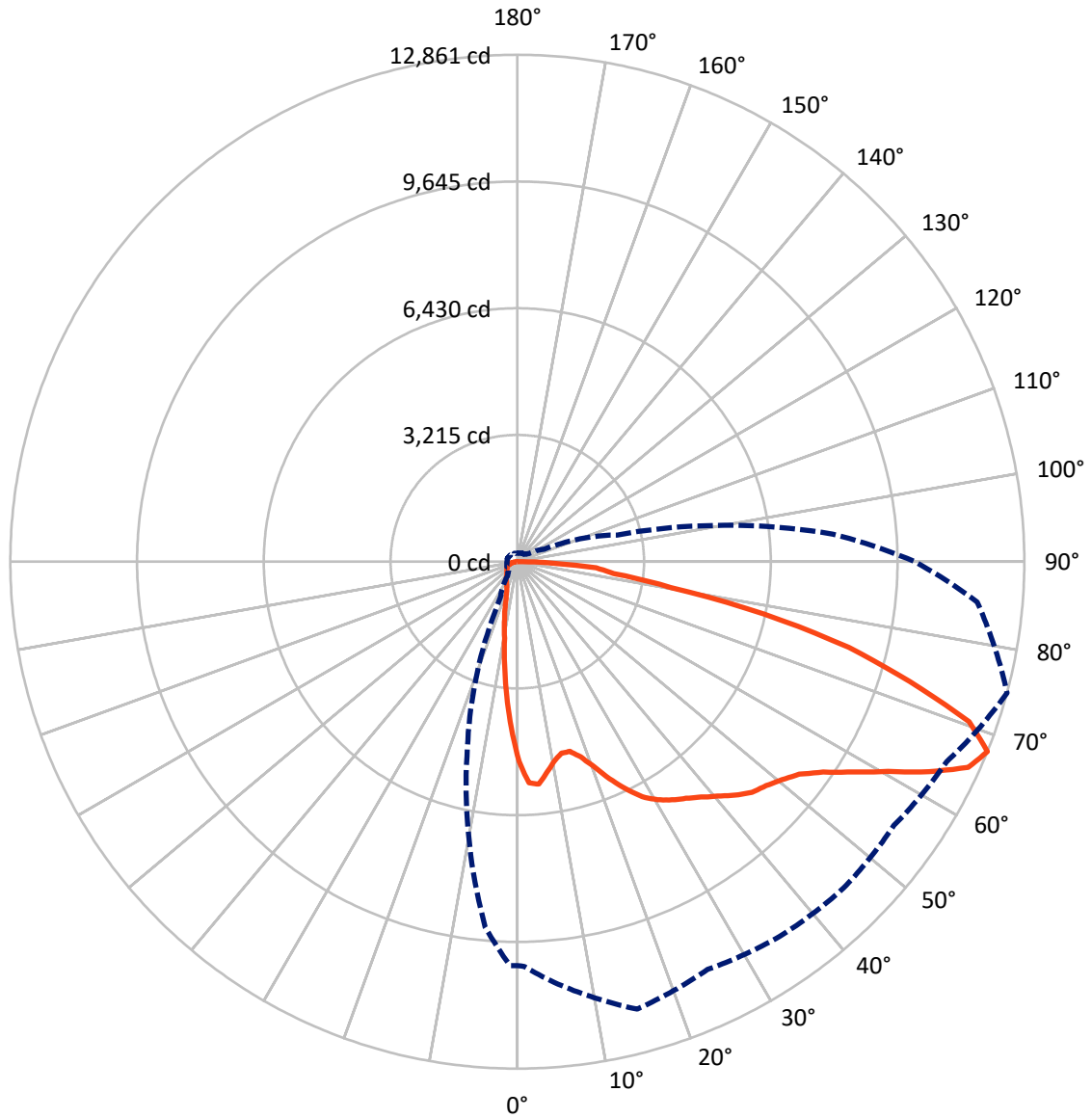
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	2742.7	0.0	2742.7
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	13484.3	0.0	13484.3
	% Fixture	83.1	0.0	83.1
Total	Lumens	16227.0	0.0	16227.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.5	2.4
10°-20°	801.9	4.9
20°-30°	1154.0	7.1
30°-40°	1662.1	10.2
40°-50°	2334.8	14.4
50°-60°	3256.2	20.1
60°-70°	3871.4	23.9
70°-80°	2280.0	14.1
80°-90°	482.1	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°	16227.0	100.0
0°-180°	16227.0	100.0

Coefficient of Utilization



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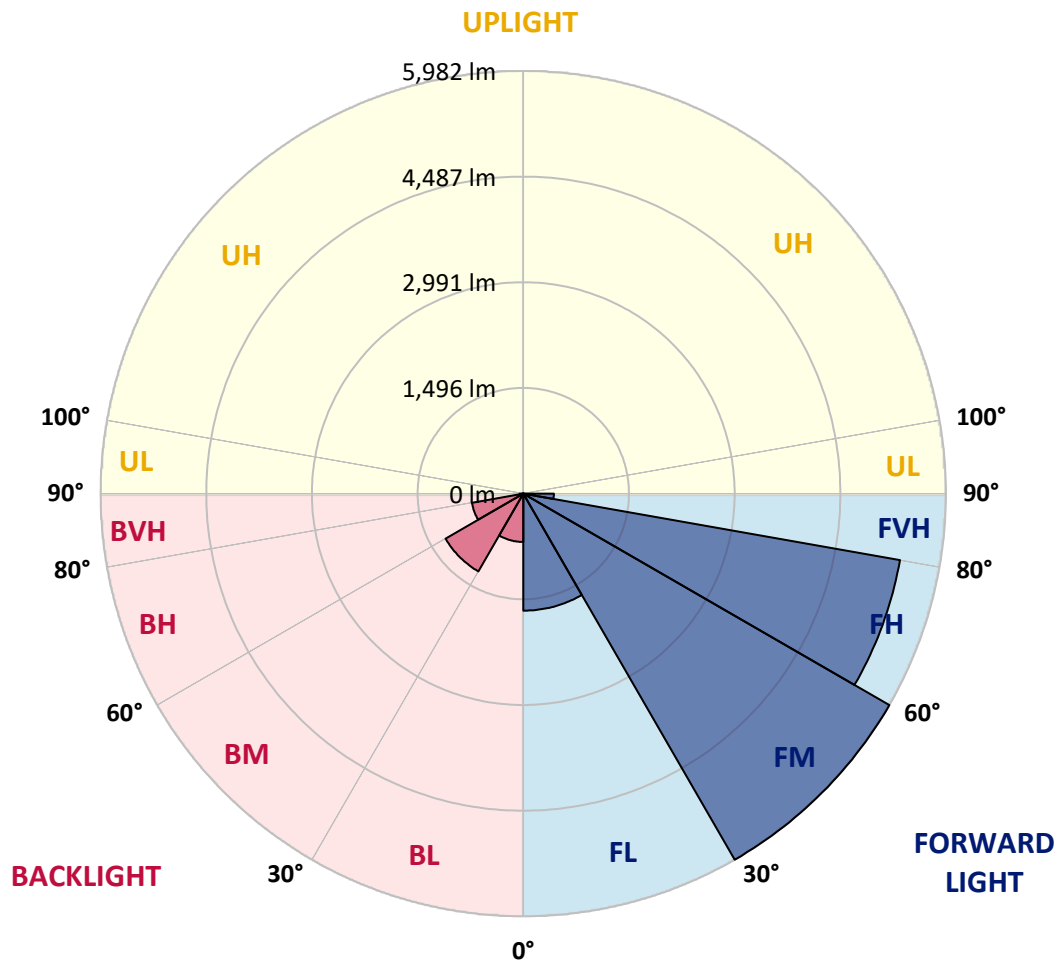
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1656.3	10.2			
FM	(30°-60°)	5982.3	36.9			
FH	(60°-80°)	5413.4	33.4			G3/7500
FVH	(80°-90°)	432.3	2.7			G3/500
BL	(0°-30°)	684.1	4.2	B2/1000		
BM	(30°-60°)	1270.7	7.8	B2/2500		
BH	(60°-80°)	738.0	4.5	B2/1000		G2/1000
BVH	(80°-90°)	49.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7
2.5°	5466.2	5473.4	5520.3	5656.6	5750.2	5784.6	5808.5	5763.8	5720.1	5613.9	5453.7
5°	5449.5	5492.2	5613.9	5919.9	6161.3	6265.3	6296.5	6162.3	5940.7	5668.0	5340.2
7.5°	5131.1	5188.3	5375.6	5888.6	6314.2	6557.7	6525.5	6283.0	5883.4	5397.5	4939.6
10°	4753.4	4816.8	5042.6	5662.8	6211.2	6546.3	6546.3	6250.8	5720.1	5142.5	4615.0
12.5°	4453.7	4520.3	4778.3	5430.8	5996.9	6314.2	6367.3	6113.4	5602.5	4981.2	4401.6
15°	4354.8	4419.3	4697.2	5290.3	5770.0	5963.6	5981.2	5898.0	5545.2	4992.7	4392.3
17.5°	4477.6	4560.9	4841.8	5331.9	5561.9	5573.3	5586.9	5652.4	5551.5	5201.9	4581.7
20°	4832.4	4921.9	5215.4	5466.2	5379.8	5261.2	5268.4	5437.0	5625.4	5547.3	5034.3
22.5°	5344.4	5422.5	5723.2	5702.4	5302.8	5058.3	5007.3	5242.4	5734.6	5978.1	5516.1
25°	5897.0	5988.5	6334.0	6053.0	5324.6	4937.5	4905.3	5128.0	5848.1	6380.8	6072.8
27.5°	6529.6	6619.1	6891.8	6406.8	5439.1	4928.2	4889.7	5117.6	5950.0	6753.4	6604.6
30°	7000.0	7082.2	7267.4	6704.4	5579.6	4990.6	4942.7	5199.8	6037.4	7008.3	7122.8
32.5°	7369.4	7454.7	7555.6	6889.7	5764.8	5104.0	5015.6	5349.6	6151.9	7202.9	7506.7
35°	7754.4	7855.3	7848.0	7054.1	5937.5	5235.2	5148.8	5566.1	6331.9	7372.5	7993.7
37.5°	8242.4	8283.0	8231.0	7201.8	6144.6	5471.4	5423.5	5887.6	6587.9	7577.5	8562.9
40°	8737.7	8818.9	8551.5	7380.8	6396.4	5915.7	5910.5	6363.1	6891.8	7817.9	9114.4
42.5°	9162.3	9231.0	8851.2	7536.9	6701.3	6457.8	6497.4	7001.0	7290.3	8096.7	9557.7
45°	9481.8	9543.1	9128.0	7687.8	7103.0	7084.3	7317.3	7684.7	7792.9	8347.5	9817.9
47.5°	9753.3	9812.7	9320.5	7916.7	7599.3	7832.4	8238.3	8397.5	8222.7	8491.1	10109.2
50°	9982.3	10000.0	9452.6	8189.4	8215.4	8749.2	9142.5	9245.5	8647.2	8697.2	10362.1
52.5°	10220.6	10197.7	9680.5	8532.7	8881.3	9619.1	9905.3	10012.4	9054.1	8951.1	10730.4
55°	10754.4	10776.2	10191.4	8965.6	9554.6	10473.4	10850.1	10747.1	9504.6	9418.3	11198.7
57.5°	11399.5	11380.8	10910.5	9643.0	10240.3	11268.4	11549.4	11383.9	10106.1	10060.3	11673.2
60°	11650.3	11675.3	11511.9	10371.4	10916.7	11964.6	12251.8	11994.7	10827.2	10806.4	12031.2
62.5°	11398.5	11539.0	11649.3	11019.7	11493.2	12476.5	12761.7	12468.2	11579.6	11730.4	12281.9
65°	10896.9	10927.1	11302.8	11569.2	11771.0	12560.8	12709.6	12553.5	12208.1	12572.3	12270.5
67.5°	10245.5	10271.6	10711.7	11749.2	11413.1	11603.5	11707.5	11661.8	12013.5	12860.5	11705.5
70°	9625.4	9604.5	10069.7	11290.3	9935.4	9646.2	9732.5	9588.9	10366.2	12156.0	10597.3
72.5°	8418.3	8493.2	8992.7	10014.5	7866.8	7396.4	7584.8	7213.3	7972.9	10411.0	8601.4
75°	6594.1	6611.8	7445.3	8404.8	5934.4	5192.5	5447.4	5292.4	6107.2	8684.7	5939.6
77.5°	4566.1	4526.5	5422.5	6419.3	4232.0	3801.2	3805.4	3731.5	4264.3	6394.4	4035.4
80°	2900.1	2839.7	3394.4	3965.6	2908.4	3111.3	3009.4	3006.2	2776.3	3944.8	2440.2
82.5°	1567.1	1633.7	2144.6	2485.9	2086.4	2404.8	2203.9	2139.4	1905.3	2469.3	1560.9
85°	713.8	776.3	1143.6	1690.9	1584.8	1602.5	1070.8	1263.3	1576.5	2005.2	833.5
87.5°	69.7	89.5	236.2	798.1	541.1	426.6	159.2	307.0	396.5	712.8	66.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7
2.5°	5388.1	5334.0	5149.8	4997.9	4836.6	4713.8	4553.6	4446.4	4372.5	4261.2	4247.6
5°	5140.5	5008.3	4687.8	4361.1	4079.1	3866.8	3651.4	3453.7	3337.1	3300.7	3253.9
7.5°	4723.2	4500.5	4088.4	3713.8	3390.2	3073.9	2830.4	2657.6	2542.1	2474.5	2393.3
10°	4379.8	4121.7	3620.2	3161.3	2894.9	2698.2	2483.9	2298.6	2156.1	2034.3	1967.7
12.5°	4148.8	3857.4	3293.4	2920.9	2714.9	2505.7	2254.9	2046.8	1836.6	1698.2	1638.9
15°	4079.1	3771.1	3192.5	2801.2	2505.7	2232.0	1951.1	1679.5	1471.4	1340.3	1296.6
17.5°	4249.7	3877.2	3191.5	2642.0	2260.1	1933.4	1573.4	1318.4	1105.1	1007.3	976.1
20°	4568.1	4081.1	3200.8	2484.9	1993.7	1533.8	1144.6	935.5	833.5	791.9	776.3
22.5°	5012.5	4392.3	3228.9	2329.9	1702.4	1177.9	857.4	751.3	714.9	707.6	704.5
25°	5559.8	4777.3	3323.6	2190.4	1456.8	899.1	717.0	669.1	648.3	641.0	640.0
27.5°	6063.5	5274.7	3438.1	2070.8	1219.6	775.2	648.3	607.7	586.9	585.8	587.9
30°	6518.2	5690.9	3533.8	1936.5	1039.5	688.9	603.5	563.0	543.2	542.1	548.4
32.5°	6911.5	6033.3	3604.6	1804.4	939.6	635.8	563.0	519.2	502.6	499.5	502.6
35°	7331.9	6374.6	3572.3	1701.3	882.4	592.1	532.8	490.1	470.3	461.0	461.0
37.5°	7811.6	6726.3	3517.2	1616.0	856.4	555.7	506.8	465.1	445.4	436.0	435.0
40°	8335.0	7078.0	3441.2	1540.1	830.4	533.8	489.1	445.4	421.4	412.1	410.0
42.5°	8797.1	7378.7	3378.8	1490.1	787.7	538.0	473.5	430.8	400.6	388.1	387.1
45°	9198.7	7681.6	3367.3	1461.0	752.3	531.7	469.3	419.4	384.0	370.4	368.4
47.5°	9513.0	7996.8	3432.9	1444.3	713.8	498.4	496.4	412.1	369.4	354.8	352.8
50°	9895.9	8444.3	3582.7	1410.0	678.5	467.2	524.5	411.0	358.0	339.2	334.0
52.5°	10405.8	9027.0	3785.6	1348.6	627.5	438.1	500.5	411.0	344.4	325.7	319.5
55°	11176.9	9770.0	3984.4	1262.2	555.7	399.6	451.6	398.5	324.7	308.0	303.8
57.5°	11687.8	10313.2	4111.3	1142.6	466.2	371.5	389.2	378.8	304.9	287.2	287.2
60°	11713.8	10458.9	4051.0	991.7	410.0	345.5	338.2	381.9	287.2	268.5	266.4
62.5°	11414.1	10101.9	3736.7	856.4	379.8	317.4	305.9	335.1	269.5	250.8	247.7
65°	10945.8	9191.4	3191.5	791.9	363.2	292.4	275.8	274.7	250.8	233.1	228.9
67.5°	10085.3	8032.2	2622.3	754.4	354.8	264.3	248.7	243.5	228.9	214.4	212.3
70°	8816.8	6727.3	2103.0	738.8	350.7	235.2	222.7	216.4	204.0	192.5	191.5
72.5°	6859.5	5456.8	1735.7	728.4	348.6	208.1	194.6	186.3	179.0	168.6	168.6
75°	4927.1	4014.6	1324.7	656.6	322.6	179.0	164.4	159.2	148.8	140.5	142.6
77.5°	3106.1	2703.4	872.0	482.8	249.7	143.6	131.1	128.0	119.7	108.2	115.5
80°	2097.8	1901.1	508.8	303.8	157.1	105.1	100.9	99.9	90.5	78.0	79.1
82.5°	1427.7	1400.6	264.3	172.7	90.5	61.4	59.3	61.4	51.0	41.6	41.6
85°	557.8	761.7	124.9	67.6	29.1	9.4	13.5	14.6	8.3	4.2	5.2
87.5°	10.4	78.0	3.1	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°	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7
2.5°	4226.8	4217.5	4233.1	4166.5	4180.0	4205.0	4217.5	4224.7	4327.8	4303.8	4369.4
5°	3297.6	3288.2	3348.6	3356.9	3388.1	3381.9	3412.1	3419.3	3456.8	3470.3	3561.9
7.5°	2398.5	2439.1	2507.8	2543.2	2596.2	2612.9	2597.3	2635.8	2557.7	2613.9	2630.6
10°	1927.2	1878.2	1849.1	1930.3	1940.7	2017.7	1986.5	1961.5	2007.3	2009.4	2053.1
12.5°	1604.6	1499.5	1429.8	1452.6	1477.6	1510.9	1516.1	1566.1	1599.4	1630.6	1656.6
15°	1258.1	1221.6	1158.2	1126.9	1162.3	1175.9	1208.1	1249.7	1285.1	1294.5	1329.9
17.5°	965.7	971.9	961.5	942.8	964.6	975.0	977.1	978.1	987.5	981.3	1033.3
20°	777.3	799.2	825.2	829.3	836.6	841.8	832.5	797.1	798.1	820.0	836.6
22.5°	703.4	707.6	736.7	746.1	769.0	759.6	732.6	715.9	713.8	719.0	727.4
25°	645.2	651.4	672.2	686.8	704.5	687.8	668.1	652.4	650.4	655.6	663.9
27.5°	593.1	602.5	621.2	635.8	652.4	636.8	618.1	604.6	603.5	602.5	607.7
30°	551.5	561.9	575.4	592.1	603.5	590.0	572.3	565.0	564.0	561.9	564.0
32.5°	509.9	526.5	540.1	548.4	559.8	549.4	535.9	531.7	524.5	518.2	515.1
35°	463.1	480.7	501.6	512.0	523.4	513.0	503.6	486.0	473.5	472.4	474.5
37.5°	436.0	443.3	459.9	477.6	489.1	483.9	466.2	448.5	445.4	445.4	447.4
40°	412.1	415.2	422.5	445.4	466.2	450.6	428.7	423.5	423.5	422.5	423.5
42.5°	388.1	391.3	391.3	408.9	442.2	417.3	400.6	400.6	400.6	401.7	404.8
45°	366.3	367.3	366.3	378.8	410.0	389.2	377.7	380.9	382.9	385.0	387.1
47.5°	347.6	348.6	347.6	358.0	373.6	365.2	359.0	363.2	367.3	370.4	372.5
50°	330.9	329.9	331.9	338.2	345.5	347.6	343.4	349.6	351.7	355.9	361.1
52.5°	316.3	315.3	317.4	320.5	330.9	330.9	330.9	336.1	340.3	344.4	351.7
55°	299.7	300.7	303.8	308.0	321.5	319.5	320.5	324.7	328.8	335.1	339.2
57.5°	284.1	286.2	290.3	296.6	310.1	309.1	310.1	312.2	317.4	320.5	324.7
60°	266.4	270.6	275.8	279.9	293.4	292.4	297.6	301.8	304.9	304.9	307.0
62.5°	248.7	254.9	260.1	263.3	277.8	278.9	286.2	289.3	291.4	289.3	292.4
65°	231.0	240.4	242.5	246.6	261.2	262.2	270.6	277.8	275.8	273.7	278.9
67.5°	213.3	224.8	223.7	228.9	243.5	245.6	252.9	265.3	261.2	259.1	263.3
70°	193.5	201.9	202.9	206.0	225.8	222.7	234.1	245.6	242.5	243.5	243.5
72.5°	171.7	179.0	179.0	185.2	206.0	200.8	210.2	222.7	222.7	221.6	221.6
75°	145.7	149.8	154.0	163.4	185.2	179.0	185.2	196.7	198.8	196.7	196.7
77.5°	117.6	123.8	125.9	138.4	154.0	153.0	159.2	164.4	168.6	166.5	166.5
80°	83.2	89.5	97.8	111.3	120.7	123.8	127.0	131.1	133.2	133.2	135.3
82.5°	46.8	56.2	63.5	77.0	81.2	96.8	95.7	98.9	95.7	84.3	93.7
85°	10.4	19.8	28.1	35.4	40.6	56.2	59.3	66.6	55.2	51.0	51.0
87.5°	0.0	0.0	0.0	0.0	0.0	8.3	16.6	22.9	19.8	16.6	16.6
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°	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7
2.5°	4424.5	4515.1	4624.3	4812.7	4944.8	5087.4	5231.0	5384.0	5424.5	5466.2
5°	3586.9	3764.8	3861.6	4114.4	4379.8	4716.9	4992.7	5294.5	5420.4	5449.5
7.5°	2717.0	2837.7	3091.6	3347.5	3676.4	4030.2	4452.6	4923.0	5069.7	5131.1
10°	2154.0	2318.4	2541.1	2815.8	3104.0	3484.9	3961.5	4510.9	4719.0	4753.4
12.5°	1833.5	2016.6	2259.1	2549.4	2822.0	3109.2	3590.0	4157.1	4379.8	4453.7
15°	1466.2	1687.8	1967.7	2273.7	2570.2	2884.5	3371.5	4011.4	4268.5	4354.8
17.5°	1151.9	1330.9	1633.7	1965.7	2317.4	2714.9	3325.7	4081.1	4397.5	4477.6
20°	881.4	1009.4	1264.3	1615.0	2027.0	2547.3	3337.1	4344.4	4723.2	4832.4
22.5°	761.7	827.3	982.3	1316.3	1777.3	2401.7	3384.0	4705.5	5162.3	5344.4
25°	689.9	724.2	811.7	1030.2	1539.0	2260.1	3491.1	5191.4	5776.3	5897.0
27.5°	628.5	653.5	707.6	864.7	1322.6	2129.0	3616.0	5730.5	6349.6	6529.6
30°	570.2	603.5	654.5	767.9	1184.2	2009.4	3773.1	6167.5	6832.4	7000.0
32.5°	525.5	558.8	605.6	700.3	1066.6	1883.4	3866.8	6551.5	7226.8	7369.4
35°	489.1	517.2	566.1	646.2	977.1	1787.7	3848.1	6856.4	7608.7	7754.4
37.5°	463.1	487.0	535.9	595.2	909.5	1687.8	3838.7	7259.1	8073.8	8242.4
40°	439.1	464.1	508.8	561.9	841.8	1570.2	3843.9	7658.7	8569.2	8737.7
42.5°	420.4	448.5	484.9	552.5	772.1	1475.5	3843.9	8006.2	9000.0	9162.3
45°	404.8	435.0	470.3	551.5	717.0	1403.7	3817.9	8304.9	9343.4	9481.8
47.5°	391.3	424.6	475.5	532.8	703.4	1351.7	3795.0	8544.2	9623.3	9753.3
50°	381.9	421.4	505.7	510.9	707.6	1336.1	3905.3	8846.0	9869.9	9982.3
52.5°	374.6	422.5	504.7	478.7	700.3	1346.5	4135.3	9317.3	10212.2	10220.6
55°	360.0	421.4	478.7	442.2	670.1	1364.2	4430.8	10002.0	10748.1	10754.4
57.5°	345.5	410.0	444.3	411.0	608.7	1364.2	4786.7	10650.3	11394.3	11399.5
60°	330.9	426.6	390.2	384.0	528.6	1339.2	5162.3	10935.4	11597.2	11650.3
62.5°	316.3	429.8	348.6	360.0	470.3	1278.9	5442.2	10620.1	11322.5	11398.5
65°	299.7	346.5	321.5	335.1	440.2	1177.9	5353.8	10042.6	10806.4	10896.9
67.5°	279.9	293.4	292.4	309.1	429.8	1029.1	4887.6	9312.1	10250.7	10245.5
70°	256.0	263.3	266.4	284.1	410.0	913.6	4072.8	8364.2	9508.8	9625.4
72.5°	231.0	237.3	240.4	256.0	390.2	848.1	3161.3	7058.2	8236.2	8418.3
75°	204.0	208.1	212.3	225.8	369.4	751.3	2251.8	5388.1	6308.0	6594.1
77.5°	175.9	175.9	181.1	194.6	311.1	620.2	1510.9	3779.4	4273.7	4566.1
80°	142.6	143.6	141.5	156.1	228.9	424.6	858.5	2524.4	2843.9	2900.1
82.5°	109.3	106.1	107.2	114.5	170.7	289.3	457.9	1568.2	1598.3	1567.1
85°	68.7	68.7	66.6	74.9	109.3	150.9	249.7	960.5	750.3	713.8
87.5°	28.1	22.9	26.0	30.2	52.0	61.4	97.8	197.7	76.0	69.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)