

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: P452291

Luminaire Tested: **GALN-SA3B-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452291
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-SA3B-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 12245 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

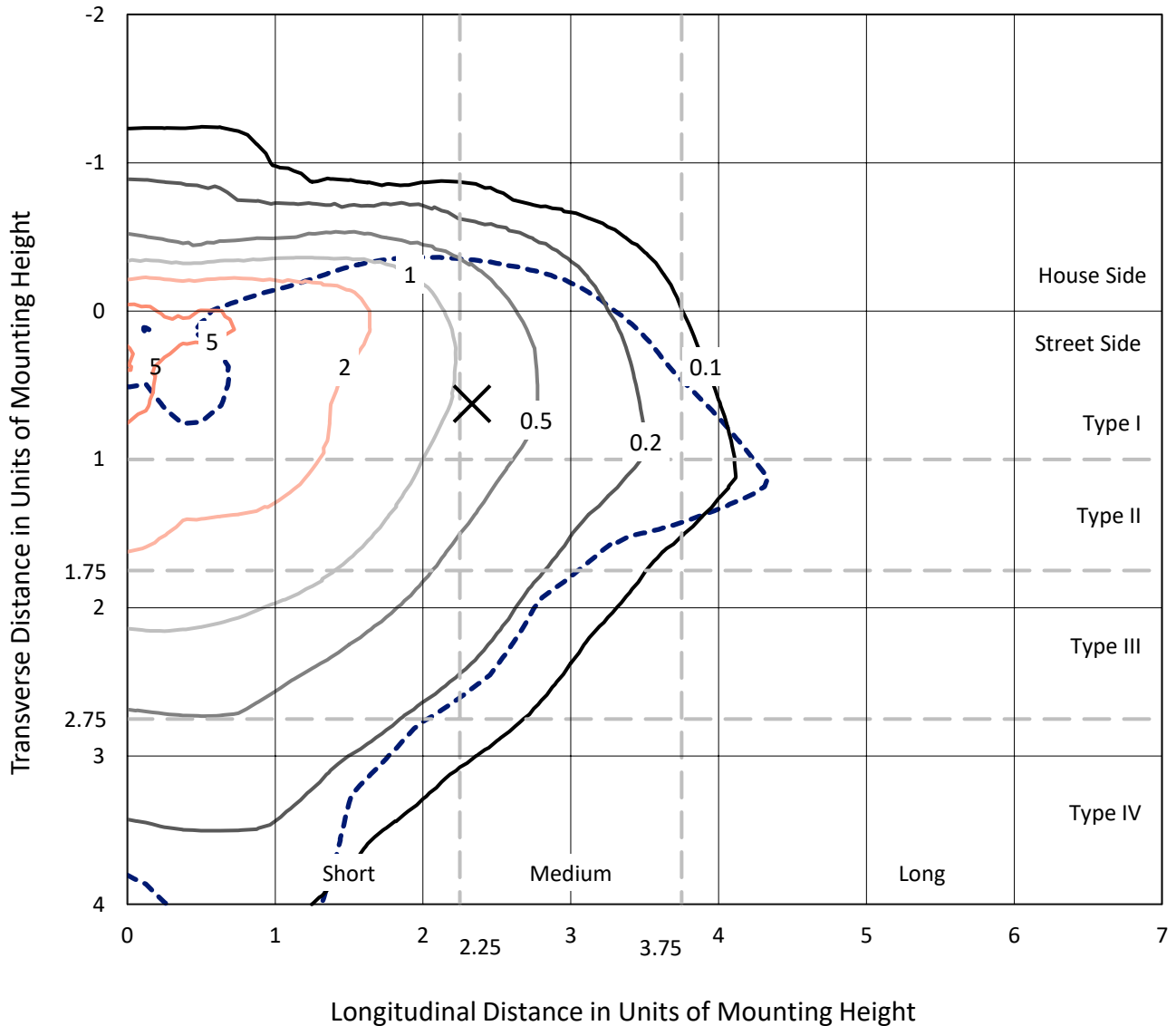
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

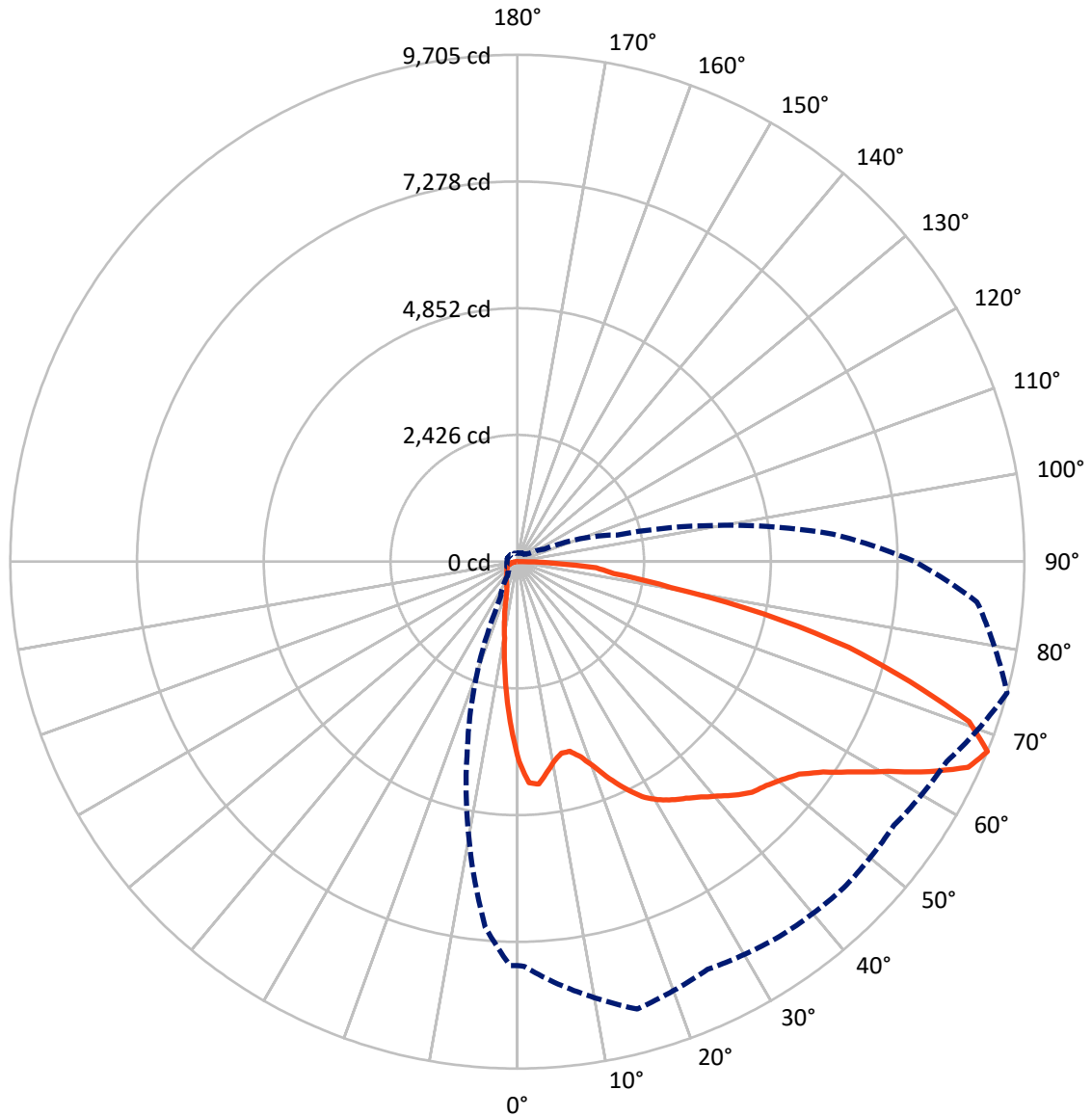
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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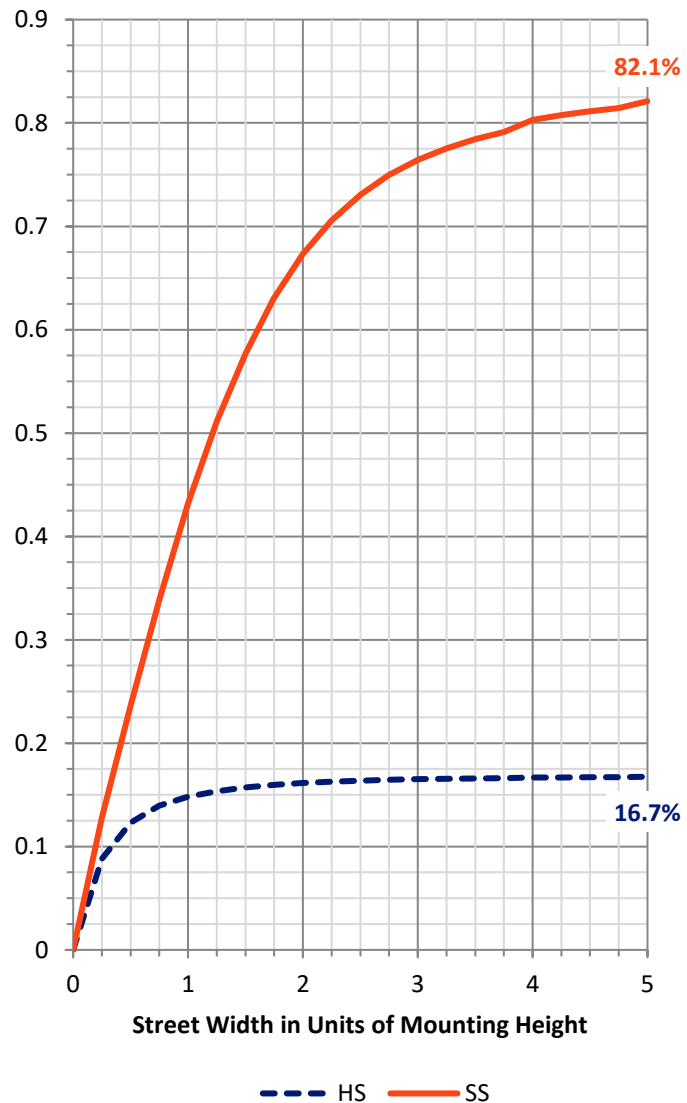
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2069.7	0.0	2069.7
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	10175.3	0.0	10175.3
	% Fixture	83.1	0.0	83.1
Total	Lumens	12245.0	0.0	12245.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.2	2.4
10°-20°	605.1	4.9
20°-30°	870.8	7.1
30°-40°	1254.2	10.2
40°-50°	1761.8	14.4
50°-60°	2457.1	20.1
60°-70°	2921.4	23.9
70°-80°	1720.5	14.1
80°-90°	363.8	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°	12245.0	100.0
0°-180°	12245.0	100.0



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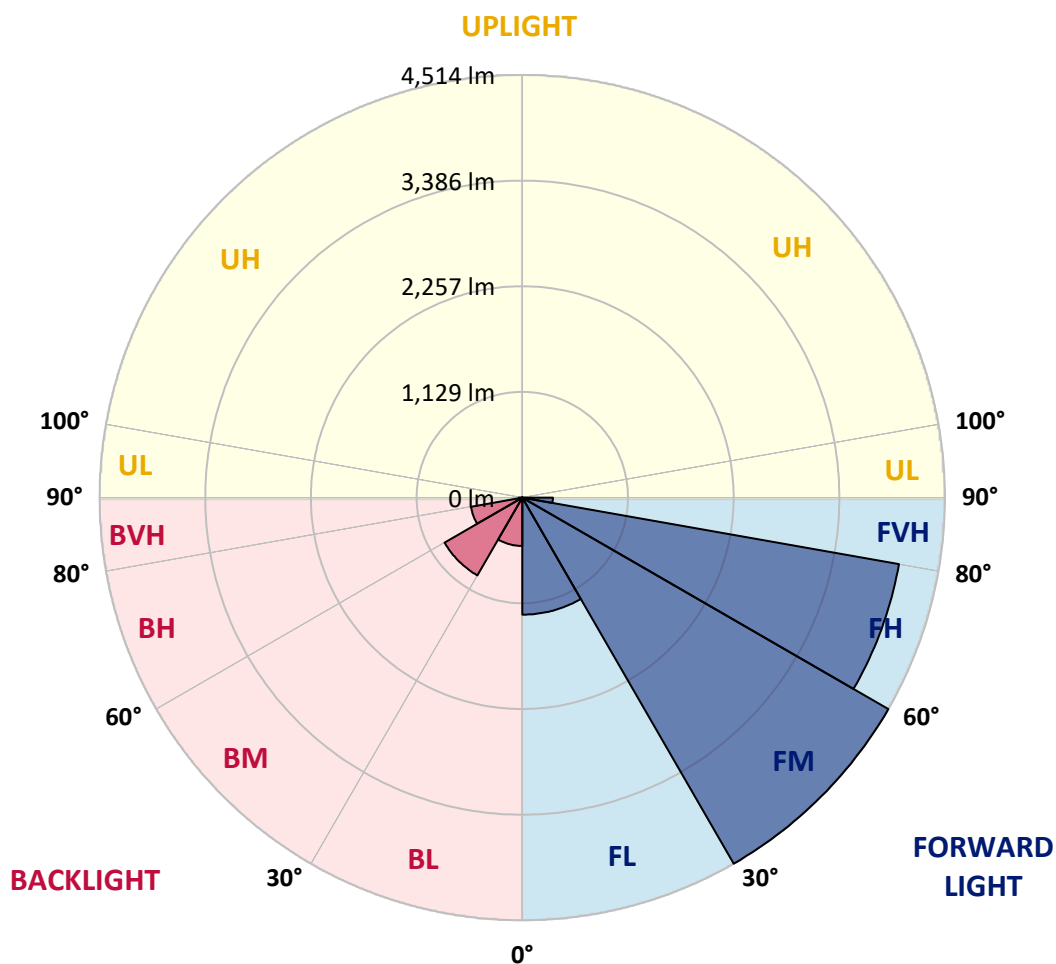
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1249.9	10.2			
FM	(30°-60°)	4514.3	36.9			
FH	(60°-80°)	4085.0	33.4			G2/5000
FVH	(80°-90°)	326.2	2.7			G3/500
BL	(0°-30°)	516.2	4.2	B2/1000		
BM	(30°-60°)	958.9	7.8	B1/1000		
BH	(60°-80°)	556.9	4.5	B2/1000		G2/1000
BVH	(80°-90°)	37.6	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°	3825.6	3825.6	3825.6	3825.6	3825.6	3825.6	3825.6	3825.6	3825.6	3825.6	3825.6
2.5°	4124.8	4130.3	4165.6	4268.5	4339.2	4365.1	4383.1	4349.4	4316.4	4236.3	4115.4
5°	4112.2	4144.4	4236.3	4467.2	4649.3	4727.9	4751.4	4650.1	4482.9	4277.1	4029.8
7.5°	3872.0	3915.1	4056.5	4443.6	4764.8	4948.5	4924.2	4741.2	4439.7	4073.0	3727.5
10°	3586.9	3634.8	3805.2	4273.2	4687.0	4939.9	4939.9	4716.9	4316.4	3880.6	3482.5
12.5°	3360.8	3411.0	3605.8	4098.1	4525.3	4764.8	4804.8	4613.2	4227.7	3758.9	3321.5
15°	3286.2	3334.9	3544.5	3992.1	4354.1	4500.1	4513.5	4450.7	4184.5	3767.5	3314.4
17.5°	3378.8	3441.7	3653.7	4023.5	4197.0	4205.7	4215.9	4265.4	4189.2	3925.4	3457.4
20°	3646.6	3714.1	3935.6	4124.8	4059.6	3970.1	3975.6	4102.8	4244.9	4186.0	3798.9
22.5°	4032.9	4091.8	4318.8	4303.0	4001.5	3817.0	3778.5	3956.0	4327.4	4511.1	4162.5
25°	4449.9	4519.0	4779.7	4567.7	4018.0	3725.9	3701.6	3869.6	4413.0	4815.0	4582.6
27.5°	4927.3	4994.8	5200.6	4834.6	4104.4	3718.8	3689.8	3861.7	4489.9	5096.1	4983.8
30°	5282.2	5344.3	5484.0	5059.2	4210.4	3766.0	3729.8	3923.8	4555.9	5288.5	5374.9
32.5°	5561.0	5625.4	5701.5	5199.0	4350.2	3851.5	3784.8	4036.9	4642.3	5435.3	5664.6
35°	5851.5	5927.7	5922.2	5323.1	4480.5	3950.5	3885.3	4200.2	4778.1	5563.3	6032.1
37.5°	6219.8	6250.4	6211.1	5434.6	4636.8	4128.7	4092.6	4442.8	4971.3	5718.0	6461.6
40°	6593.6	6654.8	6453.0	5569.6	4826.8	4464.0	4460.1	4801.7	5200.6	5899.4	6877.8
42.5°	6913.9	6965.8	6679.1	5687.4	5056.9	4873.1	4903.0	5283.0	5501.3	6109.9	7212.3
45°	7155.0	7201.3	6888.0	5801.3	5360.0	5345.8	5521.7	5798.9	5880.6	6299.1	7408.6
47.5°	7359.9	7404.7	7033.3	5974.0	5734.5	5910.4	6216.6	6336.8	6204.9	6407.5	7628.5
50°	7532.7	7546.0	7133.0	6179.7	6199.4	6602.2	6899.0	6976.7	6525.2	6562.9	7819.3
52.5°	7712.5	7695.2	7305.0	6438.9	6701.9	7258.6	7474.6	7555.5	6832.3	6754.5	8097.3
55°	8115.3	8131.8	7690.5	6765.5	7210.0	7903.3	8187.6	8109.8	7172.3	7107.1	8450.6
57.5°	8602.2	8588.0	8233.1	7276.7	7727.4	8503.2	8715.2	8590.4	7626.1	7591.6	8808.7
60°	8791.4	8810.3	8687.0	7826.4	8237.8	9028.5	9245.3	9051.3	8170.3	8154.6	9078.8
62.5°	8601.4	8707.4	8790.6	8315.6	8672.8	9414.9	9630.0	9408.6	8738.0	8851.9	9268.0
65°	8222.9	8245.7	8529.1	8730.2	8882.5	9478.5	9590.8	9473.0	9212.3	9487.1	9259.4
67.5°	7731.3	7751.0	8083.1	8866.0	8612.4	8756.1	8834.6	8800.0	9065.5	9704.6	8833.0
70°	7263.4	7247.6	7598.6	8519.7	7497.4	7279.1	7344.2	7235.9	7822.4	9173.0	7996.8
72.5°	6352.5	6409.0	6785.9	7557.0	5936.3	5581.4	5723.5	5443.2	6016.4	7856.2	6490.7
75°	4976.0	4989.3	5618.3	6342.3	4478.2	3918.3	4110.7	3993.7	4608.5	6553.5	4482.1
77.5°	3445.6	3415.7	4091.8	4844.1	3193.5	2868.4	2871.6	2815.8	3217.9	4825.2	3045.1
80°	2188.4	2142.9	2561.4	2992.5	2194.7	2347.8	2270.9	2268.5	2095.0	2976.8	1841.4
82.5°	1182.6	1232.8	1618.4	1875.9	1574.4	1814.7	1663.1	1614.4	1437.8	1863.3	1177.8
85°	538.7	585.8	863.0	1276.0	1195.9	1209.3	808.0	953.3	1189.6	1513.1	629.0
87.5°	52.6	67.5	178.2	602.3	408.3	321.9	120.1	231.6	299.2	537.9	50.3
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°	3825.6	3825.6	3825.6	3825.6	3825.6	3825.6	3825.6	3825.6	3825.6	3825.6	3825.6
2.5°	4065.9	4025.1	3886.1	3771.4	3649.7	3557.1	3436.2	3355.3	3299.5	3215.5	3205.3
5°	3879.0	3779.3	3537.4	3290.9	3078.1	2917.9	2755.4	2606.2	2518.2	2490.7	2455.4
7.5°	3564.1	3396.1	3085.2	2802.5	2558.3	2319.6	2135.8	2005.5	1918.3	1867.3	1806.0
10°	3305.0	3110.3	2731.8	2385.5	2184.5	2036.1	1874.3	1734.6	1627.0	1535.1	1484.9
12.5°	3130.7	2910.8	2485.2	2204.1	2048.7	1890.8	1701.6	1544.5	1385.9	1281.5	1236.7
15°	3078.1	2845.7	2409.1	2113.8	1890.8	1684.3	1472.3	1267.4	1110.3	1011.4	978.4
17.5°	3206.9	2925.8	2408.3	1993.7	1705.5	1459.0	1187.3	994.9	833.9	760.1	736.5
20°	3447.1	3079.7	2415.4	1875.1	1504.5	1157.4	863.8	705.9	629.0	597.6	585.8
22.5°	3782.4	3314.4	2436.6	1758.1	1284.6	888.9	647.0	566.9	539.5	534.0	531.6
25°	4195.5	3605.0	2508.0	1652.9	1099.3	678.4	541.0	504.9	489.2	483.7	482.9
27.5°	4575.5	3980.3	2594.4	1562.6	920.3	585.0	489.2	458.6	442.9	442.1	443.7
30°	4918.7	4294.4	2666.6	1461.3	784.4	519.8	455.4	424.8	409.9	409.1	413.8
32.5°	5215.5	4552.7	2720.0	1361.6	709.1	479.8	424.8	391.8	379.3	376.9	379.3
35°	5532.7	4810.3	2695.7	1283.8	665.9	446.8	402.0	369.8	354.9	347.9	347.9
37.5°	5894.7	5075.7	2654.1	1219.5	646.2	419.3	382.4	351.0	336.1	329.0	328.2
40°	6289.7	5341.1	2596.7	1162.1	626.6	402.8	369.1	336.1	318.0	311.0	309.4
42.5°	6638.3	5568.0	2549.6	1124.4	594.4	406.0	357.3	325.1	302.3	292.9	292.1
45°	6941.4	5796.5	2541.0	1102.5	567.7	401.3	354.1	316.4	289.7	279.5	278.0
47.5°	7178.5	6034.5	2590.5	1089.9	538.7	376.1	374.6	311.0	278.8	267.8	266.2
50°	7467.5	6372.1	2703.5	1064.0	512.0	352.6	395.8	310.2	270.1	256.0	252.1
52.5°	7852.3	6811.8	2856.7	1017.7	473.5	330.6	377.7	310.2	259.9	245.8	241.1
55°	8434.1	7372.5	3006.6	952.5	419.3	301.5	340.8	300.7	245.0	232.4	229.3
57.5°	8819.7	7782.4	3102.4	862.2	351.8	280.3	293.7	285.8	230.1	216.7	216.7
60°	8839.3	7892.3	3056.9	748.3	309.4	260.7	255.2	288.2	216.7	202.6	201.0
62.5°	8613.2	7623.0	2819.8	646.2	286.6	239.5	230.9	252.8	203.4	189.2	186.9
65°	8259.8	6935.9	2408.3	597.6	274.0	220.6	208.1	207.3	189.2	175.9	172.8
67.5°	7610.4	6061.2	1978.8	569.3	267.8	199.4	187.7	183.7	172.8	161.8	160.2
70°	6653.2	5076.5	1586.9	557.5	264.6	177.5	168.0	163.3	153.9	145.3	144.5
72.5°	5176.2	4117.7	1309.8	549.7	263.1	157.0	146.8	140.6	135.1	127.2	127.2
75°	3718.1	3029.4	999.6	495.5	243.4	135.1	124.1	120.1	112.3	106.0	107.6
77.5°	2343.9	2040.0	658.0	364.3	188.5	108.4	98.9	96.6	90.3	81.7	87.2
80°	1583.0	1434.6	384.0	229.3	118.6	79.3	76.2	75.4	68.3	58.9	59.7
82.5°	1077.3	1056.9	199.4	130.3	68.3	46.3	44.8	46.3	38.5	31.4	31.4
85°	420.9	574.8	94.2	51.0	22.0	7.1	10.2	11.0	6.3	3.1	3.9
87.5°	7.9	58.9	2.4	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°	3825.6	3825.6	3825.6	3825.6	3825.6	3825.6	3825.6	3825.6	3825.6	3825.6	3825.6
2.5°	3189.6	3182.5	3194.3	3144.1	3154.3	3173.1	3182.5	3188.0	3265.8	3247.7	3297.2
5°	2488.4	2481.3	2526.9	2533.1	2556.7	2552.0	2574.8	2580.3	2608.5	2618.7	2687.8
7.5°	1809.9	1840.6	1892.4	1919.1	1959.1	1971.7	1959.9	1989.0	1930.1	1972.5	1985.1
10°	1454.2	1417.3	1395.3	1456.6	1464.4	1522.6	1499.0	1480.2	1514.7	1516.3	1549.3
12.5°	1210.8	1131.5	1078.9	1096.2	1115.0	1140.2	1144.1	1181.8	1206.9	1230.5	1250.1
15°	949.3	921.9	874.0	850.4	877.1	887.3	911.6	943.1	969.8	976.8	1003.5
17.5°	728.7	733.4	725.6	711.4	727.9	735.8	737.3	738.1	745.2	740.5	779.7
20°	586.6	603.1	622.7	625.8	631.3	635.2	628.2	601.5	602.3	618.8	631.3
22.5°	530.8	534.0	555.9	563.0	580.3	573.2	552.8	540.2	538.7	542.6	548.9
25°	486.8	491.6	507.3	518.3	531.6	519.0	504.1	492.3	490.8	494.7	501.0
27.5°	447.6	454.6	468.8	479.8	492.3	480.6	466.4	456.2	455.4	454.6	458.6
30°	416.2	424.0	434.2	446.8	455.4	445.2	431.9	426.4	425.6	424.0	425.6
32.5°	384.8	397.3	407.5	413.8	422.5	414.6	404.4	401.3	395.8	391.0	388.7
35°	349.4	362.8	378.5	386.3	395.0	387.1	380.1	366.7	357.3	356.5	358.1
37.5°	329.0	334.5	347.1	360.4	369.1	365.1	351.8	338.4	336.1	336.1	337.6
40°	311.0	313.3	318.8	336.1	351.8	340.0	323.5	319.6	319.6	318.8	319.6
42.5°	292.9	295.2	295.2	308.6	333.7	314.9	302.3	302.3	302.3	303.1	305.5
45°	276.4	277.2	276.4	285.8	309.4	293.7	285.0	287.4	289.0	290.5	292.1
47.5°	262.3	263.1	262.3	270.1	281.9	275.6	270.9	274.0	277.2	279.5	281.1
50°	249.7	248.9	250.5	255.2	260.7	262.3	259.1	263.8	265.4	268.5	272.5
52.5°	238.7	237.9	239.5	241.9	249.7	249.7	249.7	253.6	256.8	259.9	265.4
55°	226.1	226.9	229.3	232.4	242.6	241.1	241.9	245.0	248.1	252.8	256.0
57.5°	214.4	215.9	219.1	223.8	234.0	233.2	234.0	235.6	239.5	241.9	245.0
60°	201.0	204.2	208.1	211.2	221.4	220.6	224.6	227.7	230.1	230.1	231.6
62.5°	187.7	192.4	196.3	198.7	209.7	210.4	215.9	218.3	219.9	218.3	220.6
65°	174.3	181.4	183.0	186.1	197.1	197.9	204.2	209.7	208.1	206.5	210.4
67.5°	161.0	169.6	168.8	172.8	183.7	185.3	190.8	200.2	197.1	195.5	198.7
70°	146.1	152.3	153.1	155.5	170.4	168.0	176.7	185.3	183.0	183.7	183.7
72.5°	129.6	135.1	135.1	139.8	155.5	151.5	158.6	168.0	168.0	167.3	167.3
75°	109.9	113.1	116.2	123.3	139.8	135.1	139.8	148.4	150.0	148.4	148.4
77.5°	88.7	93.4	95.0	104.4	116.2	115.4	120.1	124.1	127.2	125.6	125.6
80°	62.8	67.5	73.8	84.0	91.1	93.4	95.8	98.9	100.5	100.5	102.1
82.5°	35.3	42.4	47.9	58.1	61.2	73.0	72.2	74.6	72.2	63.6	70.7
85°	7.9	14.9	21.2	26.7	30.6	42.4	44.8	50.3	41.6	38.5	38.5
87.5°	0.0	0.0	0.0	0.0	0.0	6.3	12.6	17.3	14.9	12.6	12.6
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°	3825.6	3825.6	3825.6	3825.6	3825.6	3825.6	3825.6	3825.6	3825.6	3825.6
2.5°	3338.8	3407.1	3489.6	3631.7	3731.4	3839.0	3947.3	4062.8	4093.4	4124.8
5°	2706.7	2841.0	2914.0	3104.8	3305.0	3559.4	3767.5	3995.2	4090.2	4112.2
7.5°	2050.2	2141.3	2332.9	2526.1	2774.2	3041.2	3360.0	3714.9	3825.6	3872.0
10°	1625.4	1749.5	1917.5	2124.8	2342.3	2629.7	2989.4	3404.0	3561.0	3586.9
12.5°	1383.6	1521.8	1704.7	1923.8	2129.5	2346.3	2709.0	3137.0	3305.0	3360.8
15°	1106.4	1273.6	1484.9	1715.7	1939.5	2176.7	2544.1	3027.1	3221.0	3286.2
17.5°	869.2	1004.3	1232.8	1483.3	1748.7	2048.7	2509.6	3079.7	3318.4	3378.8
20°	665.1	761.7	954.1	1218.7	1529.6	1922.2	2518.2	3278.3	3564.1	3646.6
22.5°	574.8	624.3	741.3	993.3	1341.2	1812.3	2553.6	3550.8	3895.5	4032.9
25°	520.6	546.5	612.5	777.4	1161.4	1705.5	2634.4	3917.5	4358.8	4449.9
27.5°	474.3	493.1	534.0	652.5	998.0	1606.6	2728.7	4324.2	4791.5	4927.3
30°	430.3	455.4	493.9	579.5	893.6	1516.3	2847.2	4654.0	5155.8	5282.2
32.5°	396.5	421.7	457.0	528.5	804.9	1421.3	2917.9	4943.8	5453.4	5561.0
35°	369.1	390.3	427.2	487.6	737.3	1349.0	2903.8	5173.9	5741.6	5851.5
37.5°	349.4	367.5	404.4	449.2	686.3	1273.6	2896.7	5477.7	6092.6	6219.8
40°	331.4	350.2	384.0	424.0	635.2	1184.9	2900.6	5779.3	6466.3	6593.6
42.5°	317.2	338.4	365.9	417.0	582.6	1113.5	2900.6	6041.5	6791.4	6913.9
45°	305.5	328.2	354.9	416.2	541.0	1059.3	2881.0	6266.9	7050.6	7155.0
47.5°	295.2	320.4	358.8	402.0	530.8	1020.0	2863.7	6447.5	7261.8	7359.9
50°	288.2	318.0	381.6	385.5	534.0	1008.2	2947.0	6675.2	7447.9	7532.7
52.5°	282.7	318.8	380.8	361.2	528.5	1016.1	3120.5	7030.9	7706.2	7712.5
55°	271.7	318.0	361.2	333.7	505.7	1029.4	3343.5	7547.6	8110.6	8115.3
57.5°	260.7	309.4	335.3	310.2	459.4	1029.4	3612.0	8036.8	8598.2	8602.2
60°	249.7	321.9	294.5	289.7	398.9	1010.6	3895.5	8252.0	8751.4	8791.4
62.5°	238.7	324.3	263.1	271.7	354.9	965.0	4106.7	8014.0	8544.1	8601.4
65°	226.1	261.5	242.6	252.8	332.2	888.9	4040.0	7578.2	8154.6	8222.9
67.5°	211.2	221.4	220.6	233.2	324.3	776.6	3688.2	7027.0	7735.3	7731.3
70°	193.2	198.7	201.0	214.4	309.4	689.4	3073.4	6311.7	7175.4	7263.4
72.5°	174.3	179.0	181.4	193.2	294.5	640.0	2385.5	5326.2	6215.1	6352.5
75°	153.9	157.0	160.2	170.4	278.8	566.9	1699.2	4065.9	4760.0	4976.0
77.5°	132.7	132.7	136.6	146.8	234.8	468.0	1140.2	2851.9	3224.9	3445.6
80°	107.6	108.4	106.8	117.8	172.8	320.4	647.8	1905.0	2146.0	2188.4
82.5°	82.4	80.1	80.9	86.4	128.8	218.3	345.5	1183.3	1206.1	1182.6
85°	51.8	51.8	50.3	56.5	82.4	113.9	188.5	724.8	566.1	538.7
87.5°	21.2	17.3	19.6	22.8	39.3	46.3	73.8	149.2	57.3	52.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)