

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: P451885

Luminaire Tested: **GALN-SA2D-740-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451885
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-SA2D-740-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA 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: 13410 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

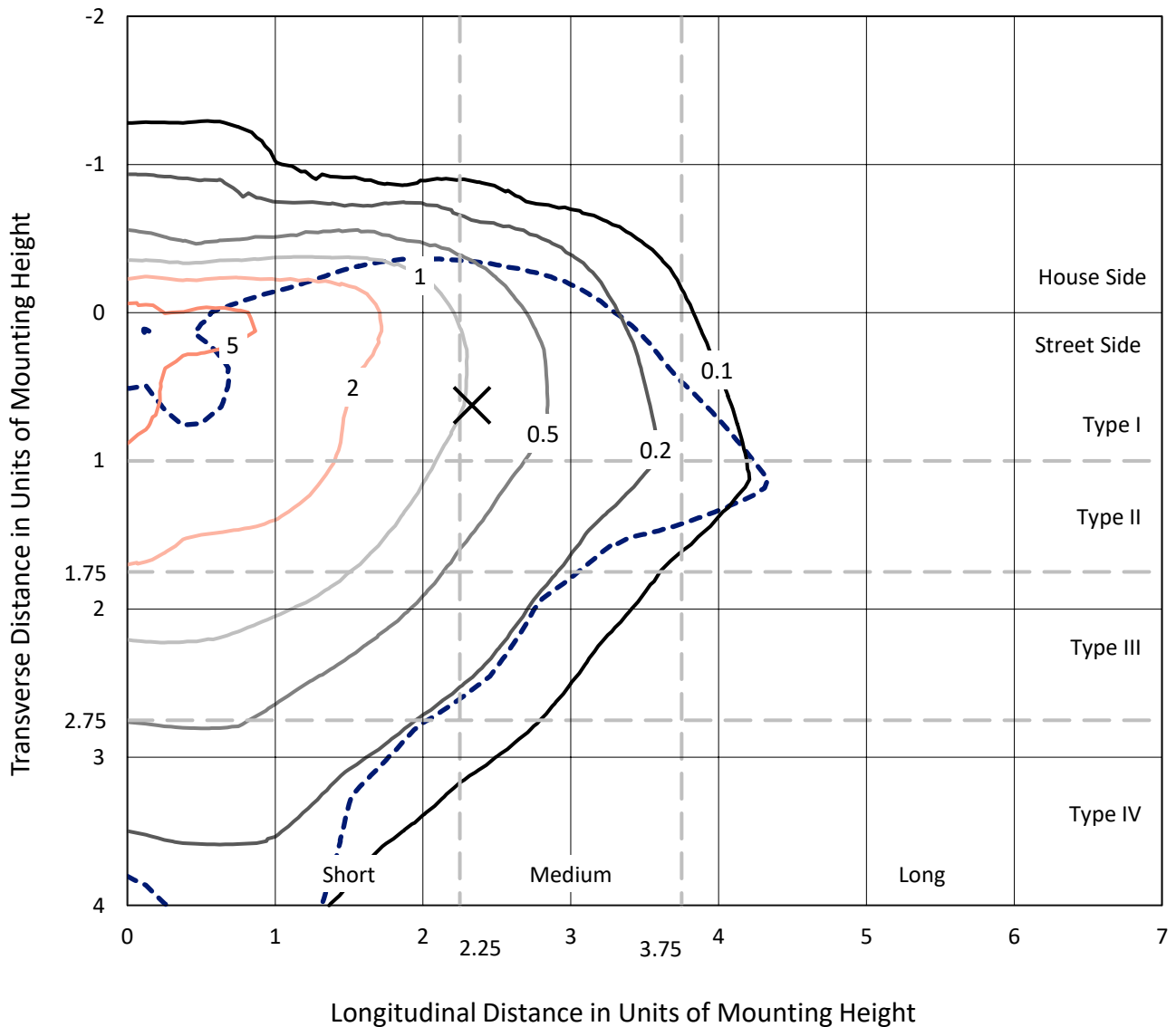
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

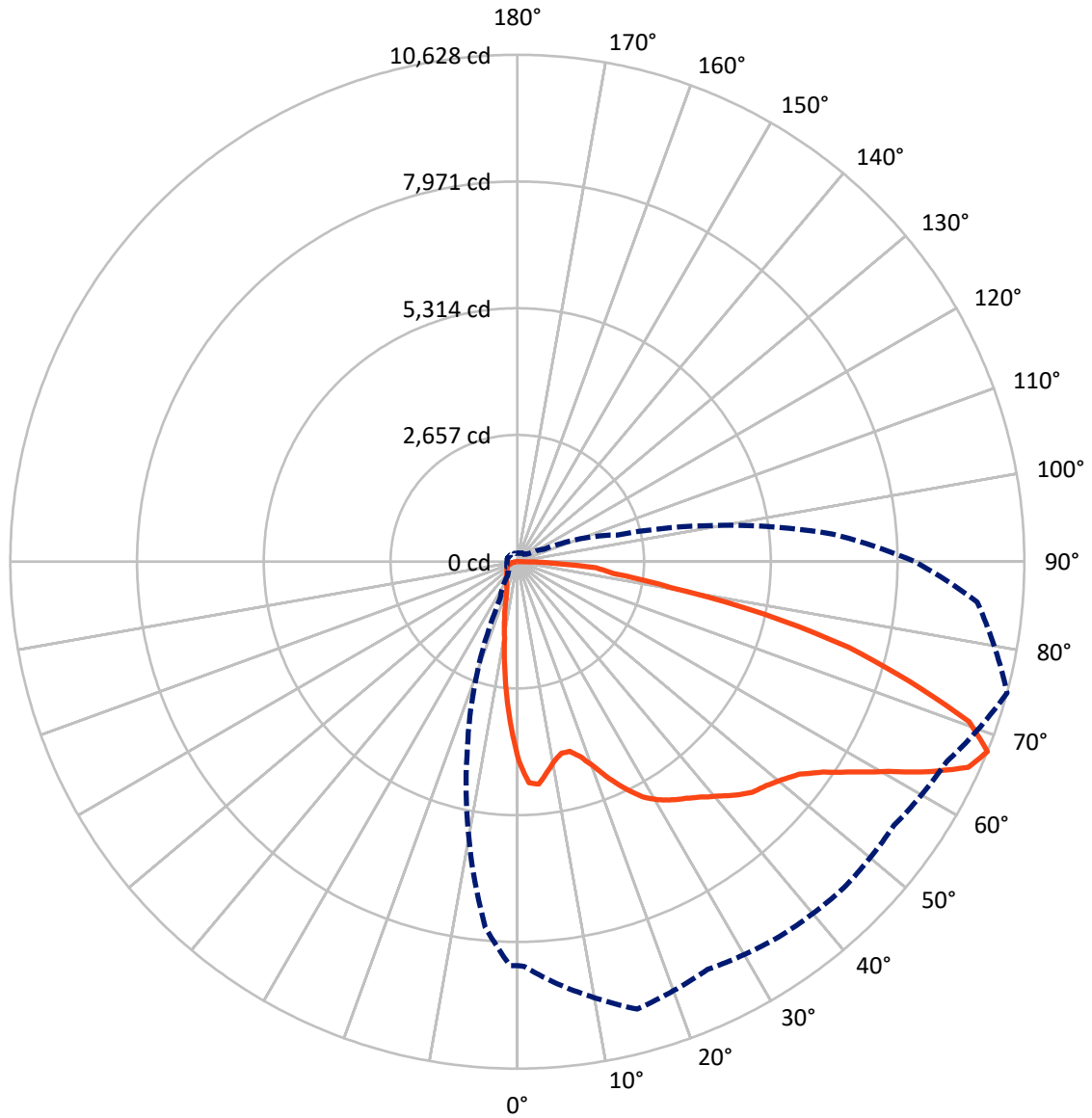
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	2266.6	0.0	2266.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	11143.4	0.0	11143.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	13410.0	0.0	13410.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.8	2.4
10°-20°	662.7	4.9
20°-30°	953.7	7.1
30°-40°	1373.5	10.2
40°-50°	1929.4	14.4
50°-60°	2690.9	20.1
60°-70°	3199.3	23.9
70°-80°	1884.2	14.1
80°-90°	398.4	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°	13410.0	100.0
0°-180°	13410.0	100.0

Coefficient of Utilization



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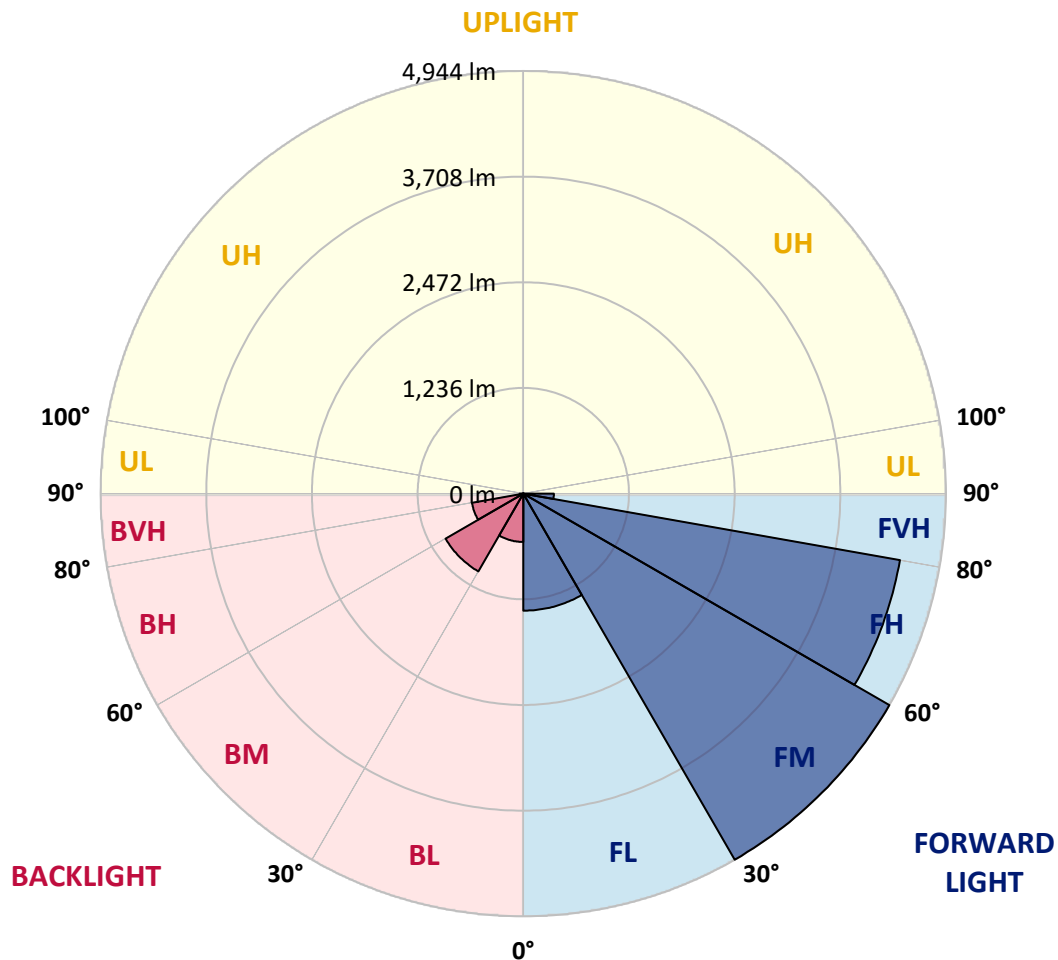
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1368.8	10.2			
FM	(30°-60°)	4943.8	36.9			
FH	(60°-80°)	4473.6	33.4			G2/5000
FVH	(80°-90°)	357.2	2.7			G3/500
BL	(0°-30°)	565.4	4.2	B2/1000		
BM	(30°-60°)	1050.1	7.8	B2/2500		
BH	(60°-80°)	609.9	4.5	B2/1000		G2/1000
BVH	(80°-90°)	41.2	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°	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6
2.5°	4517.2	4523.3	4562.0	4674.6	4752.0	4780.4	4800.2	4763.2	4727.1	4639.3	4506.9
5°	4503.5	4538.7	4639.3	4892.2	5091.7	5177.7	5203.5	5092.5	4909.4	4684.1	4413.2
7.5°	4240.3	4287.6	4442.4	4866.4	5218.1	5419.3	5392.6	5192.3	4862.1	4460.5	4082.1
10°	3928.2	3980.6	4167.2	4679.8	5132.9	5409.8	5409.8	5165.6	4727.1	4249.8	3813.8
12.5°	3680.5	3735.6	3948.8	4488.0	4955.8	5218.1	5261.9	5052.1	4629.9	4116.5	3637.5
15°	3598.8	3652.1	3881.7	4371.9	4768.3	4928.3	4942.9	4874.1	4582.6	4126.0	3629.8
17.5°	3700.3	3769.1	4001.3	4406.3	4596.4	4605.8	4617.0	4671.2	4587.8	4298.8	3786.3
20°	3993.5	4067.5	4310.0	4517.2	4445.9	4347.8	4353.8	4493.2	4648.8	4584.3	4160.4
22.5°	4416.6	4481.1	4729.6	4712.4	4382.2	4180.1	4138.0	4332.4	4739.1	4940.3	4558.5
25°	4873.2	4948.9	5234.4	5002.2	4400.3	4080.4	4053.7	4237.8	4832.8	5273.1	5018.6
27.5°	5396.1	5470.0	5695.3	5294.6	4494.9	4072.7	4040.8	4229.2	4917.1	5581.0	5458.0
30°	5784.8	5852.7	6005.8	5540.6	4611.0	4124.2	4084.7	4297.1	4989.3	5791.7	5886.3
32.5°	6090.1	6160.6	6244.0	5693.6	4764.0	4218.0	4144.9	4420.9	5083.9	5952.5	6203.6
35°	6408.2	6491.6	6485.6	5829.5	4906.8	4326.3	4255.0	4599.8	5232.7	6092.6	6606.0
37.5°	6811.5	6845.1	6802.1	5951.6	5077.9	4521.5	4482.0	4865.5	5444.2	6262.0	7076.4
40°	7220.9	7287.9	7066.9	6099.5	5286.0	4888.7	4884.4	5258.5	5695.3	6460.7	7532.2
42.5°	7571.7	7628.5	7314.6	6228.5	5538.0	5336.8	5369.4	5785.6	6024.7	6691.2	7898.5
45°	7835.7	7886.5	7543.3	6353.2	5869.9	5854.4	6047.1	6350.6	6440.1	6898.4	8113.5
47.5°	8060.2	8109.2	7702.4	6542.4	6280.1	6472.7	6808.1	6939.7	6795.2	7017.1	8354.3
50°	8249.4	8264.0	7811.6	6767.7	6789.2	7230.3	7555.4	7640.5	7146.1	7187.3	8563.2
52.5°	8446.3	8427.4	8000.0	7051.5	7339.5	7949.2	8185.7	8274.3	7482.3	7397.2	8867.6
55°	8887.4	8905.5	8422.2	7409.2	7895.9	8655.2	8966.5	8881.4	7854.6	7783.3	9254.6
57.5°	9420.6	9405.1	9016.4	7969.0	8462.6	9312.2	9544.4	9407.7	8351.7	8313.8	9646.7
60°	9627.8	9648.5	9513.5	8571.0	9021.6	9887.5	10124.9	9912.5	8947.6	8930.4	9942.6
62.5°	9419.7	9535.8	9627.0	9106.7	9498.0	10310.6	10546.2	10303.7	9569.4	9694.0	10149.8
65°	9005.2	9030.2	9340.6	9560.8	9727.6	10380.3	10503.2	10374.3	10088.8	10389.7	10140.3
67.5°	8466.9	8488.4	8852.2	9709.5	9431.8	9589.1	9675.1	9637.3	9927.9	10627.9	9673.4
70°	7954.4	7937.2	8321.6	9330.3	8210.7	7971.6	8043.0	7924.3	8566.7	10045.8	8757.6
72.5°	6956.9	7018.8	7431.6	8276.0	6501.1	6112.4	6268.1	5961.1	6588.8	8603.6	7108.2
75°	5449.4	5464.0	6152.8	6945.7	4904.2	4291.1	4501.8	4373.6	5047.0	7177.0	4908.5
77.5°	3773.4	3740.7	4481.1	5304.9	3497.4	3141.3	3144.8	3083.7	3524.0	5284.3	3334.8
80°	2396.6	2346.8	2805.1	3277.2	2403.5	2571.2	2486.9	2484.4	2294.3	3260.0	2016.5
82.5°	1295.1	1350.1	1772.3	2054.4	1724.2	1987.3	1821.3	1768.0	1574.5	2040.6	1289.9
85°	589.9	641.5	945.1	1397.4	1309.7	1324.3	884.9	1044.0	1302.8	1657.1	688.8
87.5°	57.6	74.0	195.2	659.6	447.2	352.6	131.6	253.7	327.6	589.1	55.0
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°	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6
2.5°	4452.7	4408.0	4255.8	4130.3	3997.0	3895.5	3763.1	3674.5	3613.4	3521.4	3510.3
5°	4248.1	4138.9	3874.0	3604.0	3370.9	3195.5	3017.5	2854.1	2757.8	2727.7	2689.0
7.5°	3903.2	3719.2	3378.7	3069.1	2801.7	2540.2	2339.0	2196.3	2100.8	2044.9	1977.8
10°	3619.5	3406.2	2991.7	2612.5	2392.3	2229.8	2052.7	1899.6	1781.8	1681.2	1626.1
12.5°	3428.6	3187.8	2721.7	2413.8	2243.6	2070.7	1863.5	1691.5	1517.8	1403.4	1354.4
15°	3370.9	3116.4	2638.3	2314.9	2070.7	1844.6	1612.4	1387.9	1215.9	1107.6	1071.5
17.5°	3512.0	3204.1	2637.4	2183.4	1867.8	1597.8	1300.2	1089.5	913.3	832.4	806.6
20°	3775.1	3372.7	2645.2	2053.5	1647.6	1267.5	945.9	773.1	688.8	654.4	641.5
22.5°	4142.3	3629.8	2668.4	1925.4	1406.9	973.4	708.6	620.9	590.8	584.8	582.2
25°	4594.6	3948.0	2746.6	1810.2	1203.9	743.0	592.5	552.9	535.7	529.7	528.9
27.5°	5010.8	4359.0	2841.2	1711.3	1007.8	640.7	535.7	502.2	485.0	484.1	485.9
30°	5386.6	4703.0	2920.3	1600.3	859.1	569.3	498.8	465.2	448.9	448.0	453.2
32.5°	5711.7	4985.9	2978.8	1491.1	776.5	525.4	465.2	429.1	415.3	412.8	415.3
35°	6059.1	5268.0	2952.2	1406.0	729.2	489.3	440.3	405.0	388.7	381.0	381.0
37.5°	6455.5	5558.6	2906.6	1335.5	707.7	459.2	418.8	384.4	368.1	360.3	359.5
40°	6888.1	5849.3	2843.8	1272.7	686.2	441.1	404.2	368.1	348.3	340.5	338.8
42.5°	7269.9	6097.8	2792.2	1231.4	651.0	444.6	391.3	356.0	331.1	320.8	319.9
45°	7601.8	6348.0	2782.7	1207.3	621.7	439.4	387.8	346.6	317.3	306.1	304.4
47.5°	7861.5	6608.6	2836.9	1193.6	589.9	411.9	410.2	340.5	305.3	293.2	291.5
50°	8178.0	6978.4	2960.8	1165.2	560.7	386.1	433.4	339.7	295.8	280.3	276.0
52.5°	8599.3	7459.9	3128.4	1114.5	518.5	362.0	413.6	339.7	284.6	269.2	264.0
55°	9236.6	8073.9	3292.7	1043.1	459.2	330.2	373.2	329.4	268.3	254.5	251.1
57.5°	9658.8	8522.8	3397.6	944.2	385.3	307.0	321.6	313.0	252.0	237.3	237.3
60°	9680.3	8643.2	3347.7	819.5	338.8	285.5	279.5	315.6	237.3	221.9	220.1
62.5°	9432.6	8348.2	3088.0	707.7	313.9	262.3	252.8	276.9	222.7	207.2	204.7
65°	9045.7	7595.8	2637.4	654.4	300.1	241.6	227.9	227.0	207.2	192.6	189.2
67.5°	8334.5	6637.8	2167.0	623.5	293.2	218.4	205.5	201.2	189.2	177.1	175.4
70°	7286.2	5559.5	1737.9	610.6	289.8	194.3	184.0	178.9	168.5	159.1	158.2
72.5°	5668.7	4509.5	1434.4	602.0	288.1	172.0	160.8	153.9	147.9	139.3	139.3
75°	4071.8	3317.6	1094.7	542.6	266.6	147.9	135.9	131.6	123.0	116.1	117.8
77.5°	2566.9	2234.1	720.6	399.0	206.4	118.7	108.4	105.8	98.9	89.4	95.5
80°	1733.6	1571.1	420.5	251.1	129.9	86.9	83.4	82.6	74.8	64.5	65.4
82.5°	1179.8	1157.5	218.4	142.7	74.8	50.7	49.0	50.7	42.1	34.4	34.4
85°	460.9	629.5	103.2	55.9	24.1	7.7	11.2	12.0	6.9	3.4	4.3
87.5°	8.6	64.5	2.6	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°	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6
2.5°	3493.1	3485.3	3498.2	3443.2	3454.4	3475.0	3485.3	3491.3	3576.5	3556.7	3610.9
5°	2725.1	2717.4	2767.3	2774.1	2799.9	2794.8	2819.7	2825.7	2856.7	2867.9	2943.6
7.5°	1982.1	2015.7	2072.4	2101.7	2145.5	2159.3	2146.4	2178.2	2113.7	2160.2	2173.9
10°	1592.6	1552.2	1528.1	1595.2	1603.8	1667.4	1641.6	1621.0	1658.8	1660.5	1696.7
12.5°	1326.0	1239.2	1181.6	1200.5	1221.1	1248.6	1252.9	1294.2	1321.7	1347.5	1369.0
15°	1039.7	1009.6	957.1	931.3	960.5	971.7	998.4	1032.8	1062.0	1069.8	1099.0
17.5°	798.0	803.2	794.6	779.1	797.2	805.8	807.5	808.3	816.1	810.9	853.9
20°	642.4	660.4	681.9	685.4	691.4	695.7	687.9	658.7	659.6	677.6	691.4
22.5°	581.3	584.8	608.8	616.6	635.5	627.8	605.4	591.6	589.9	594.2	601.1
25°	533.2	538.3	555.5	567.6	582.2	568.4	552.1	539.2	537.5	541.8	548.6
27.5°	490.2	497.9	513.4	525.4	539.2	526.3	510.8	499.6	498.8	497.9	502.2
30°	455.8	464.4	475.5	489.3	498.8	487.6	473.0	466.9	466.1	464.4	466.1
32.5°	421.4	435.1	446.3	453.2	462.6	454.0	442.9	439.4	433.4	428.2	425.7
35°	382.7	397.3	414.5	423.1	432.5	423.9	416.2	401.6	391.3	390.4	392.1
37.5°	360.3	366.3	380.1	394.7	404.2	399.9	385.3	370.6	368.1	368.1	369.8
40°	340.5	343.1	349.1	368.1	385.3	372.4	354.3	350.0	350.0	349.1	350.0
42.5°	320.8	323.3	323.3	338.0	365.5	344.8	331.1	331.1	331.1	331.9	334.5
45°	302.7	303.6	302.7	313.0	338.8	321.6	312.2	314.7	316.5	318.2	319.9
47.5°	287.2	288.1	287.2	295.8	308.7	301.8	296.7	300.1	303.6	306.1	307.9
50°	273.5	272.6	274.3	279.5	285.5	287.2	283.8	288.9	290.7	294.1	298.4
52.5°	261.4	260.6	262.3	264.9	273.5	273.5	273.5	277.8	281.2	284.6	290.7
55°	247.7	248.5	251.1	254.5	265.7	264.0	264.9	268.3	271.7	276.9	280.3
57.5°	234.8	236.5	239.9	245.1	256.3	255.4	256.3	258.0	262.3	264.9	268.3
60°	220.1	223.6	227.9	231.3	242.5	241.6	245.9	249.4	252.0	252.0	253.7
62.5°	205.5	210.7	215.0	217.6	229.6	230.5	236.5	239.1	240.8	239.1	241.6
65°	190.9	198.6	200.4	203.8	215.8	216.7	223.6	229.6	227.9	226.2	230.5
67.5°	176.3	185.7	184.9	189.2	201.2	202.9	209.0	219.3	215.8	214.1	217.6
70°	159.9	166.8	167.7	170.3	186.6	184.0	193.5	202.9	200.4	201.2	201.2
72.5°	141.9	147.9	147.9	153.1	170.3	166.0	173.7	184.0	184.0	183.2	183.2
75°	120.4	123.8	127.3	135.0	153.1	147.9	153.1	162.5	164.2	162.5	162.5
77.5°	97.2	102.3	104.1	114.4	127.3	126.4	131.6	135.9	139.3	137.6	137.6
80°	68.8	74.0	80.8	92.0	99.8	102.3	104.9	108.4	110.1	110.1	111.8
82.5°	38.7	46.4	52.5	63.6	67.1	80.0	79.1	81.7	79.1	69.7	77.4
85°	8.6	16.3	23.2	29.2	33.5	46.4	49.0	55.0	45.6	42.1	42.1
87.5°	0.0	0.0	0.0	0.0	0.0	6.9	13.8	18.9	16.3	13.8	13.8
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°	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6
2.5°	3656.4	3731.3	3821.5	3977.2	4086.4	4204.2	4322.9	4449.3	4482.8	4517.2
5°	2964.2	3111.2	3191.2	3400.2	3619.5	3898.1	4126.0	4375.3	4479.4	4503.5
7.5°	2245.3	2345.0	2554.9	2766.4	3038.1	3330.5	3679.7	4068.4	4189.6	4240.3
10°	1780.1	1915.9	2100.0	2327.0	2565.2	2879.9	3273.8	3727.8	3899.8	3928.2
12.5°	1515.2	1666.6	1866.9	2106.8	2332.1	2569.5	2966.8	3435.4	3619.5	3680.5
15°	1211.6	1394.8	1626.1	1879.0	2124.0	2383.7	2786.2	3315.0	3527.5	3598.8
17.5°	951.9	1099.9	1350.1	1624.4	1915.1	2243.6	2748.4	3372.7	3634.1	3700.3
20°	728.4	834.1	1044.8	1334.6	1675.2	2105.1	2757.8	3590.2	3903.2	3993.5
22.5°	629.5	683.6	811.8	1087.8	1468.8	1984.7	2796.5	3888.6	4266.1	4416.6
25°	570.1	598.5	670.7	851.3	1271.8	1867.8	2885.1	4290.2	4773.5	4873.2
27.5°	519.4	540.0	584.8	714.6	1093.0	1759.4	2988.3	4735.7	5247.3	5396.1
30°	471.2	498.8	540.9	634.6	978.6	1660.5	3118.1	5096.8	5646.3	5784.8
32.5°	434.3	461.8	500.5	578.7	881.4	1556.5	3195.5	5414.1	5972.2	6090.1
35°	404.2	427.4	467.8	534.0	807.5	1477.4	3180.0	5666.1	6287.8	6408.2
37.5°	382.7	402.4	442.9	491.9	751.6	1394.8	3172.3	5998.9	6672.2	6811.5
40°	362.9	383.5	420.5	464.4	695.7	1297.6	3176.6	6329.1	7081.6	7220.9
42.5°	347.4	370.6	400.7	456.6	638.1	1219.4	3176.6	6616.3	7437.6	7571.7
45°	334.5	359.5	388.7	455.8	592.5	1160.1	3155.1	6863.1	7721.4	7835.7
47.5°	323.3	350.9	393.0	440.3	581.3	1117.1	3136.2	7060.9	7952.7	8060.2
50°	315.6	348.3	417.9	422.2	584.8	1104.2	3227.3	7310.3	8156.5	8249.4
52.5°	309.6	349.1	417.1	395.6	578.7	1112.8	3417.4	7699.9	8439.4	8446.3
55°	297.5	348.3	395.6	365.5	553.8	1127.4	3661.6	8265.7	8882.3	8887.4
57.5°	285.5	338.8	367.2	339.7	503.1	1127.4	3955.7	8801.4	9416.3	9420.6
60°	273.5	352.6	322.5	317.3	436.8	1106.7	4266.1	9037.1	9584.0	9627.8
62.5°	261.4	355.2	288.1	297.5	388.7	1056.9	4497.5	8776.5	9356.9	9419.7
65°	247.7	286.4	265.7	276.9	363.8	973.4	4424.4	8299.2	8930.4	9005.2
67.5°	231.3	242.5	241.6	255.4	355.2	850.5	4039.1	7695.6	8471.2	8466.9
70°	211.5	217.6	220.1	234.8	338.8	755.0	3365.8	6912.2	7858.1	7954.4
72.5°	190.9	196.1	198.6	211.5	322.5	700.8	2612.5	5832.9	6806.4	6956.9
75°	168.5	172.0	175.4	186.6	305.3	620.9	1860.9	4452.7	5212.9	5449.4
77.5°	145.3	145.3	149.6	160.8	257.1	512.5	1248.6	3123.3	3531.8	3773.4
80°	117.8	118.7	117.0	129.0	189.2	350.9	709.4	2086.2	2350.2	2396.6
82.5°	90.3	87.7	88.6	94.6	141.0	239.1	378.4	1295.9	1320.9	1295.1
85°	56.8	56.8	55.0	61.9	90.3	124.7	206.4	793.7	620.0	589.9
87.5°	23.2	18.9	21.5	24.9	43.0	50.7	80.8	163.4	62.8	57.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)