

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: P451654

Luminaire Tested: **GALN-SA2C-740-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451654
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10153 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

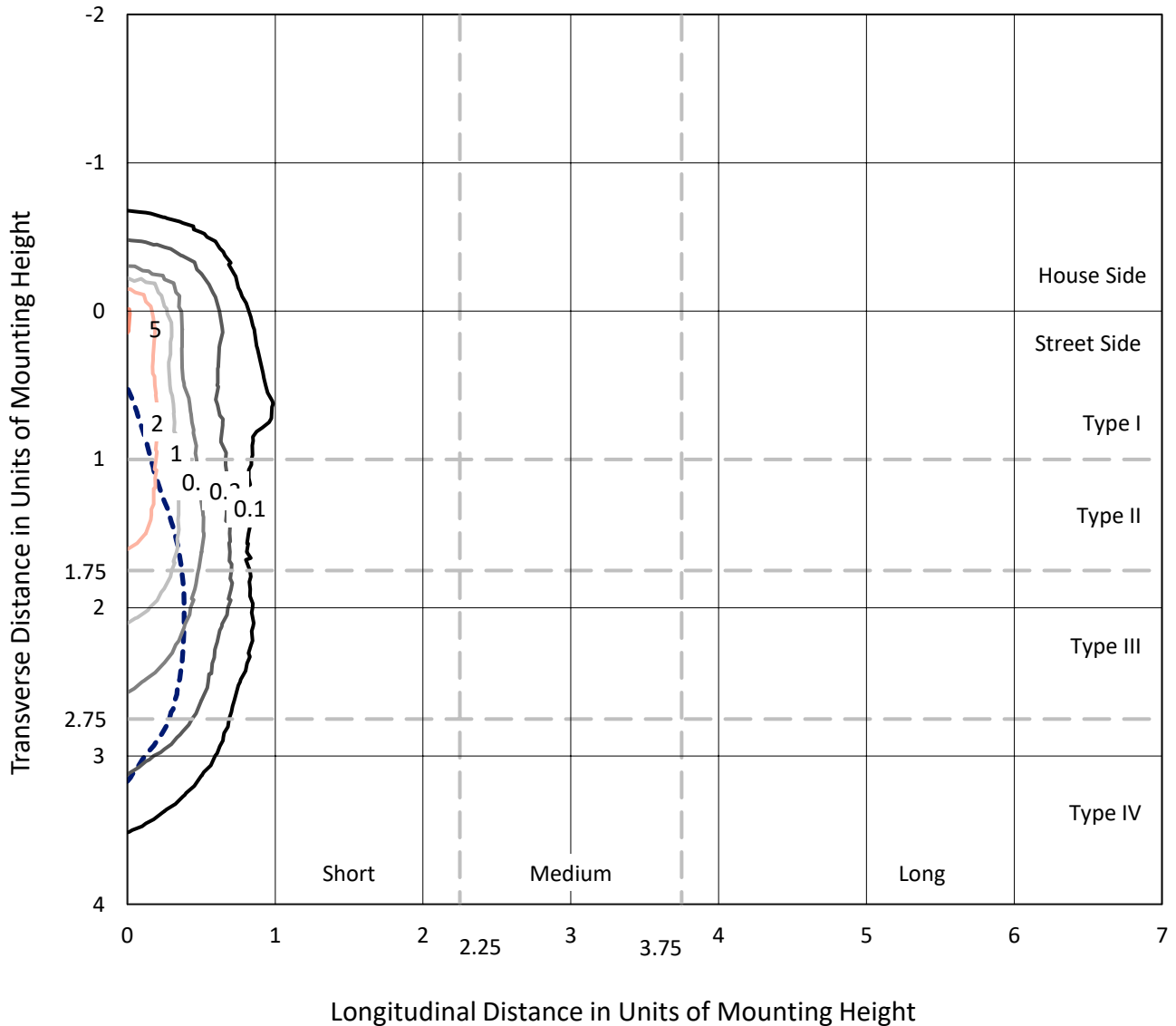
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

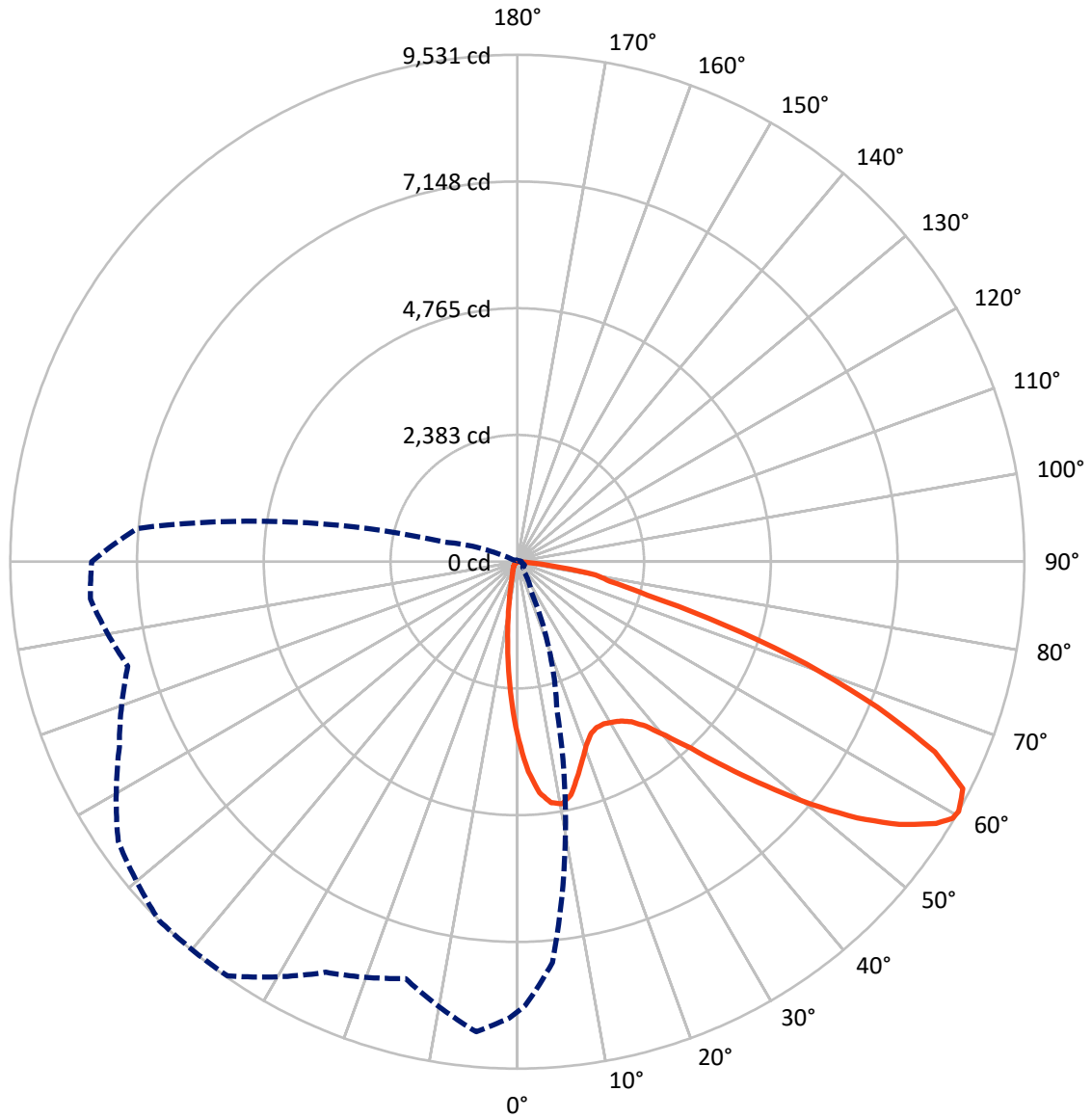
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1252.3	0.0	1252.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	8900.7	0.0	8900.7
	% Fixture	87.7	0.0	87.7
Total	Lumens	10153.0	0.0	10153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.6	2.5
10°-20°	495.7	4.9
20°-30°	726.8	7.2
30°-40°	1080.9	10.6
40°-50°	1573.0	15.5
50°-60°	2268.4	22.3
60°-70°	2495.0	24.6
70°-80°	1117.6	11.0
80°-90°	146.0	1.4
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°	10153.0	100.0
0°-180°	10153.0	100.0

Coefficient of Utilization



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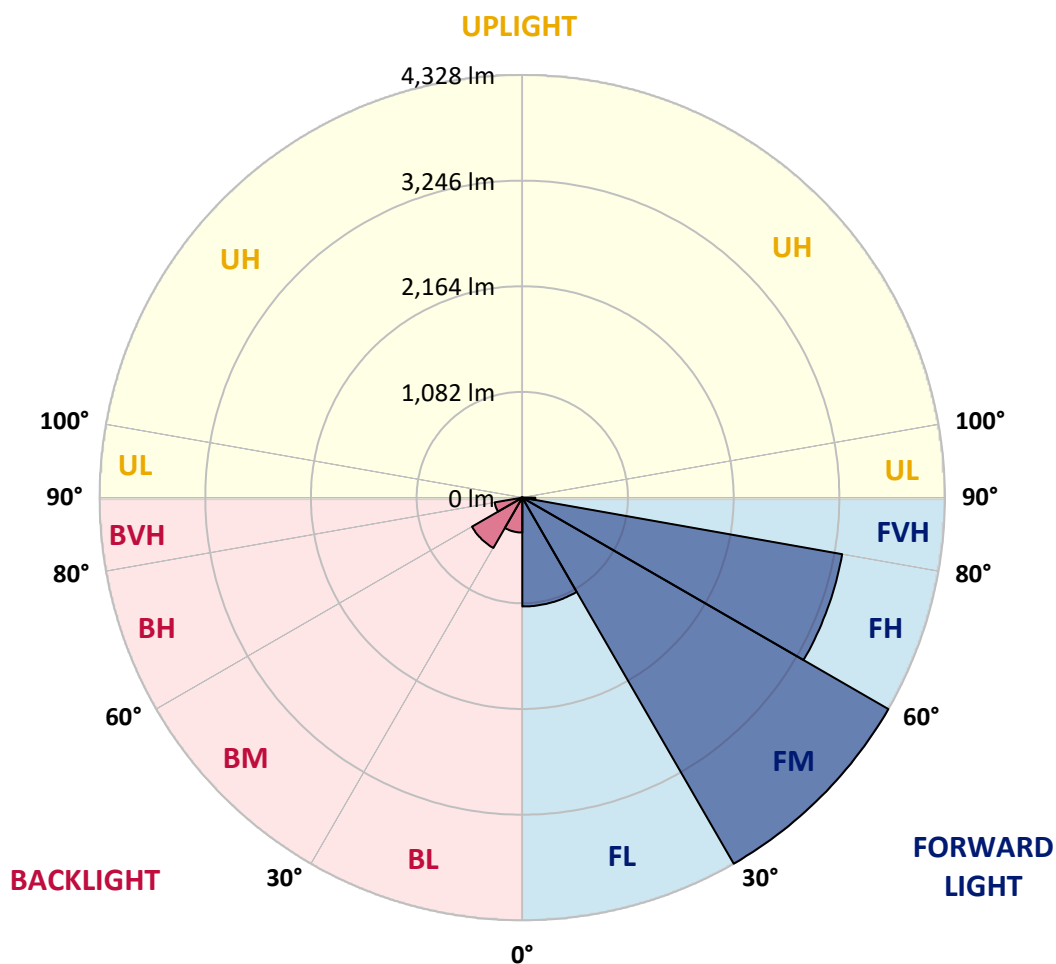
CATALOG NUMBER: GALN-SA2C-740-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1114.3	11.0			
FM (30°-60°)	4327.5	42.6			
FH (60°-80°)	3325.4	32.8			G2/5000
FVH (80°-90°)	133.5	1.3			G2/225
BL (0°-30°)	357.8	3.5	B1/500		
BM (30°-60°)	594.8	5.9	B1/1000		
BH (60°-80°)	287.2	2.8	B1/500		G1/500
BVH (80°-90°)	12.5	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3355.7	3355.7	3355.7	3355.7	3355.7	3355.7	3355.7	3355.7	3355.7	3355.7	3355.7
2.5°	3689.1	3672.9	3635.9	3523.2	3425.2	3297.1	3167.4	3065.5	3003.0	2888.0	2835.5
5°	3574.1	3581.8	3474.6	3243.0	2985.3	2809.3	2617.1	2464.3	2296.1	2189.5	2077.6
7.5°	3273.9	3258.5	3141.9	2819.3	2506.0	2251.3	2008.2	1810.6	1686.3	1586.8	1503.4
10°	3016.9	3005.3	2856.4	2441.1	2104.7	1914.0	1749.6	1576.8	1443.2	1297.4	1180.8
12.5°	2855.6	2829.4	2658.0	2224.3	1950.3	1772.8	1593.7	1413.9	1229.5	1082.0	940.8
15°	2801.6	2763.8	2573.1	2149.4	1851.5	1626.1	1401.6	1194.7	982.5	819.6	713.1
17.5°	2899.6	2837.1	2634.1	2136.3	1733.4	1434.7	1158.4	889.1	668.4	544.1	478.5
20°	3124.2	3052.4	2788.5	2123.2	1602.2	1220.2	880.6	628.2	462.3	394.4	358.1
22.5°	3457.6	3358.8	3016.9	2144.0	1481.1	1011.0	635.9	443.8	367.4	324.9	299.5
25°	3858.1	3775.6	3306.3	2218.1	1385.4	846.6	491.6	362.7	309.5	283.2	263.9
27.5°	4297.3	4165.3	3680.6	2306.9	1298.1	719.3	431.4	324.1	275.5	251.6	241.6
30°	4609.9	4507.2	3994.0	2368.6	1189.3	623.6	394.4	319.5	276.3	247.7	229.2
32.5°	4918.6	4787.4	4256.4	2397.2	1109.8	557.2	341.1	278.6	242.3	227.7	209.2
35°	5248.9	5111.5	4518.0	2381.7	1050.4	513.2	309.5	248.5	207.6	182.9	164.4
37.5°	5583.1	5438.0	4778.1	2326.2	1013.4	495.5	284.8	236.2	196.0	170.6	150.5
40°	5979.8	5786.1	5022.0	2280.6	974.8	486.2	268.6	228.4	187.5	160.5	140.5
42.5°	6303.9	6119.5	5252.8	2256.7	948.5	464.6	268.6	222.3	182.1	152.0	131.2
45°	6611.1	6419.7	5502.0	2276.0	937.7	437.6	271.7	221.5	178.3	145.9	125.0
47.5°	6868.1	6702.2	5758.3	2348.5	923.8	408.3	255.5	232.3	176.0	140.5	118.9
50°	7171.4	7010.9	6097.1	2495.2	899.1	378.9	235.4	250.1	175.2	135.8	113.5
52.5°	7599.0	7425.3	6564.8	2661.9	859.8	334.2	216.9	247.7	172.1	128.1	108.0
55°	8121.5	7981.0	7106.6	2861.8	805.7	284.0	187.5	220.0	162.8	115.0	98.8
57.5°	8456.4	8336.8	7512.5	2948.2	723.2	232.3	165.2	184.5	149.0	102.6	88.0
59°	8495.8	8387.7	7597.4	2919.7	669.1	212.2	154.4	158.2	145.1	95.7	81.8
60°	8462.6	8350.7	7563.5	2864.1	619.0	198.3	145.1	140.5	145.9	91.8	77.2
62.5°	8249.6	8058.2	7233.9	2582.4	541.0	182.1	128.9	115.0	128.9	82.6	68.7
65°	7838.2	7551.1	6581.8	2185.7	510.1	172.9	109.6	96.5	98.0	72.5	59.4
67.5°	7119.7	6757.7	5713.5	1775.9	497.0	173.7	92.6	86.4	75.6	61.7	52.5
70°	5983.6	5622.4	4584.4	1461.0	490.9	173.7	78.7	74.1	63.3	51.7	45.5
72.5°	4240.2	3851.2	3092.5	1147.6	442.2	172.9	67.1	67.1	51.7	43.2	37.0
75°	2395.6	2398.7	1944.1	811.9	367.4	142.8	54.0	53.3	37.8	33.2	27.8
77.5°	1396.2	1371.5	1310.5	348.8	170.6	64.8	37.8	32.4	26.2	23.9	20.1
80°	717.8	590.4	575.0	126.6	61.0	40.9	26.2	18.5	17.0	15.4	13.9
82.5°	212.2	213.0	189.9	50.9	34.0	27.0	13.1	10.0	9.3	8.5	8.5
85°	14.7	9.3	10.8	15.4	20.8	10.8	0.8	2.3	2.3	3.1	3.9
87.5°	1.5	0.8	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3355.7	3355.7	3355.7	3355.7	3355.7	3355.7	3355.7	3355.7	3355.7	3355.7	3355.7
2.5°	2777.6	2811.6	2748.3	2749.9	2697.4	2714.4	2652.6	2672.7	2636.4	2664.2	2746.0
5°	2090.0	2097.7	2046.8	2030.6	2038.3	2069.9	2082.3	2025.9	2049.9	2002.8	1999.7
7.5°	1472.6	1481.8	1452.5	1448.6	1504.2	1491.1	1515.0	1457.1	1402.3	1426.3	1382.3
10°	1143.8	1105.2	1045.0	1028.0	1017.2	1024.2	1024.2	971.7	964.0	943.1	974.8
12.5°	903.0	855.9	798.8	721.6	702.3	700.8	672.2	625.9	611.3	593.5	619.7
15°	656.0	636.7	588.9	545.7	501.7	493.2	446.9	409.0	358.9	351.9	349.6
17.5°	461.5	433.0	432.2	407.5	382.0	365.1	321.8	278.6	259.3	257.0	257.0
20°	345.8	335.7	319.5	316.4	308.7	289.4	250.8	227.7	218.4	219.2	222.3
22.5°	291.0	284.0	269.4	262.4	259.3	242.3	213.8	198.3	193.7	193.7	194.5
25°	260.1	253.9	237.7	226.9	223.0	210.7	188.3	176.7	172.9	172.9	172.9
27.5°	236.9	229.2	212.2	203.0	196.0	182.1	168.2	156.7	152.8	152.8	153.6
30°	220.7	212.2	196.8	184.5	173.7	161.3	149.7	139.7	135.1	134.3	135.1
32.5°	199.1	191.4	176.0	168.2	155.9	141.2	132.0	122.7	118.1	118.9	118.1
35°	155.1	152.8	142.0	144.3	137.4	125.0	116.5	106.5	101.1	100.3	101.9
37.5°	141.2	132.0	119.6	120.4	118.1	113.5	99.6	88.8	84.9	84.9	85.7
40°	130.4	121.2	107.3	100.3	101.1	101.1	86.4	74.9	71.0	70.2	71.8
42.5°	121.2	111.9	96.5	84.9	81.8	85.7	73.3	61.7	57.9	56.3	57.9
45°	115.0	105.0	87.2	74.1	64.8	69.5	60.2	50.9	46.3	46.3	45.5
47.5°	108.8	99.6	80.3	64.1	54.0	51.7	49.4	40.9	36.3	35.5	36.3
50°	103.4	94.2	72.5	55.6	45.5	40.1	40.1	32.4	29.3	27.8	28.6
52.5°	98.0	88.0	65.6	49.4	39.4	32.4	28.6	26.2	23.9	23.2	23.9
55°	90.3	80.3	58.7	42.4	34.0	27.0	22.4	21.6	20.1	18.5	20.1
57.5°	81.0	71.8	51.7	36.3	27.0	20.8	18.5	17.8	16.2	15.4	15.4
59°	75.6	67.1	47.9	31.6	23.9	18.5	17.0	16.2	14.7	13.1	13.9
60°	72.5	65.6	45.5	29.3	21.6	17.0	15.4	14.7	13.1	12.3	13.1
62.5°	64.1	58.7	40.1	23.9	17.0	12.3	10.8	11.6	10.8	10.0	10.8
65°	56.3	51.7	34.0	18.5	13.1	8.5	7.7	10.0	9.3	8.5	9.3
67.5°	50.2	44.8	28.6	13.9	9.3	4.6	5.4	8.5	8.5	7.7	8.5
70°	43.2	38.6	23.2	10.0	4.6	2.3	3.9	6.2	7.7	6.9	7.7
72.5°	35.5	30.1	17.8	6.9	2.3	0.0	2.3	5.4	7.7	6.9	7.7
75°	27.8	22.4	13.1	3.9	0.0	0.0	0.8	4.6	7.7	6.9	7.7
77.5°	20.1	16.2	7.7	0.8	0.0	0.0	0.8	4.6	7.7	6.9	7.7
80°	13.1	11.6	3.1	0.0	0.0	0.0	0.8	4.6	7.7	7.7	8.5
82.5°	8.5	6.2	0.0	0.0	0.0	0.0	1.5	6.2	8.5	9.3	9.3
85°	3.9	0.0	0.0	0.0	0.0	0.0	3.1	7.7	10.0	10.0	10.0
87.5°	0.0	0.0	0.0	0.0	0.0	1.5	5.4	9.3	11.6	11.6	11.6
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3355.7	3355.7	3355.7	3355.7	3355.7	3355.7	3355.7	3355.7	3355.7	3355.7	3355.7
2.5°	2759.9	2808.5	2877.2	2982.9	3068.6	3203.7	3307.1	3448.3	3591.1	3634.3	3701.5
5°	2031.3	2093.8	2249.7	2391.8	2481.3	2766.8	2947.4	3232.2	3487.7	3610.4	3743.9
7.5°	1410.8	1484.9	1603.8	1802.1	1990.4	2222.7	2514.5	2840.2	3214.5	3389.7	3578.0
10°	990.2	1082.8	1250.3	1413.1	1650.1	1870.8	2158.7	2518.3	2931.2	3138.1	3374.2
12.5°	625.1	707.7	929.2	1112.1	1407.7	1664.0	1929.5	2255.1	2733.7	2945.9	3193.6
15°	357.3	426.8	530.2	764.8	1092.8	1431.7	1762.8	2140.9	2632.6	2894.2	3162.0
17.5°	266.3	284.8	331.1	463.8	762.5	1158.4	1609.2	2106.2	2701.2	3008.4	3314.0
20°	223.8	236.2	257.8	310.3	486.2	892.2	1459.4	2112.4	2923.5	3309.4	3599.6
22.5°	200.7	208.4	226.1	260.1	331.9	649.8	1284.2	2148.6	3192.9	3679.1	4014.0
25°	176.0	186.0	201.4	230.8	276.3	450.7	1111.4	2229.7	3570.3	4148.3	4463.2
27.5°	156.7	165.9	181.4	208.4	242.3	344.2	909.9	2299.1	3968.5	4620.7	4878.4
30°	137.4	146.6	162.1	183.7	214.6	278.6	693.1	2340.0	4355.2	4974.9	5173.3
32.5°	121.2	128.9	143.6	162.8	188.3	236.2	546.4	2297.6	4650.8	5296.7	5429.5
35°	105.0	114.2	126.6	144.3	166.7	201.4	454.6	2151.0	4904.7	5627.8	5675.7
37.5°	88.0	98.8	111.9	128.1	145.9	185.2	365.1	1988.9	5176.3	6040.7	5962.0
40°	74.1	84.1	96.5	114.2	130.4	169.8	280.9	1816.0	5469.6	6428.2	6274.6
42.5°	60.2	71.0	85.7	101.9	128.9	148.2	217.6	1637.0	5732.8	6765.4	6557.1
45°	47.9	57.1	72.5	93.4	128.1	127.3	168.2	1460.2	5931.2	7006.2	6767.8
47.5°	37.8	45.5	61.0	91.1	118.1	108.0	135.1	1350.6	6139.5	7223.1	6929.1
50°	30.1	37.8	52.5	94.9	103.4	92.6	113.5	1368.4	6341.0	7333.5	6995.4
52.5°	25.5	33.2	45.5	74.9	79.5	81.0	99.6	1450.2	6601.1	7451.6	7127.4
55°	22.4	29.3	38.6	52.5	61.7	72.5	91.1	1509.6	6949.1	7704.7	7418.4
57.5°	17.8	25.5	34.7	44.8	50.9	63.3	84.1	1514.2	7264.0	8029.6	7805.0
59°	16.2	23.2	32.4	42.4	45.5	57.1	79.5	1474.9	7275.6	8078.3	7982.5
60°	14.7	22.4	30.9	39.4	43.2	54.0	75.6	1429.3	7170.6	8001.1	8055.9
62.5°	12.3	19.3	27.0	31.6	37.0	44.8	65.6	1264.2	6662.0	7651.5	7920.0
65°	10.8	17.0	23.2	26.2	30.9	38.6	57.9	1011.8	6100.2	7177.6	7531.1
67.5°	10.0	15.4	20.1	22.4	27.0	35.5	51.7	714.7	5372.4	6576.4	6946.8
70°	9.3	14.7	17.8	20.8	23.9	30.1	44.0	416.8	4138.3	5522.1	5913.4
72.5°	9.3	13.9	15.4	17.8	20.8	27.0	40.9	225.4	2829.4	4212.4	4717.9
75°	9.3	13.1	13.9	15.4	18.5	24.7	36.3	118.1	1829.1	2926.6	3611.9
77.5°	9.3	12.3	13.9	14.7	17.8	21.6	31.6	74.1	1218.6	2049.9	2441.1
80°	10.0	12.3	13.1	14.7	17.0	20.1	26.2	49.4	716.2	1233.3	1485.7
82.5°	10.8	12.3	13.9	15.4	17.8	19.3	23.2	30.9	330.3	815.8	923.1
85°	11.6	13.1	14.7	16.2	18.5	19.3	21.6	22.4	54.0	368.1	497.8
87.5°	12.3	13.9	15.4	17.0	20.1	20.1	20.1	20.1	18.5	39.4	100.3
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3355.7	3355.7	3355.7	3355.7	3355.7	3355.7	3355.7	3355.7	3355.7	3355.7
2.5°	3786.4	3873.6	3934.5	3950.0	3906.0	3885.9	3830.4	3743.9	3691.4	3689.1
5°	3990.1	4194.6	4336.6	4360.6	4275.7	4132.1	3961.6	3741.6	3612.7	3574.1
7.5°	3955.4	4313.5	4541.9	4575.1	4432.3	4158.4	3828.0	3473.8	3333.3	3273.9
10°	3812.6	4249.4	4575.9	4628.4	4437.8	4051.9	3632.0	3236.9	3062.4	3016.9
12.5°	3690.7	4132.1	4422.3	4494.9	4350.5	3965.4	3514.7	3084.8	2898.0	2855.6
15°	3637.4	3993.2	4170.7	4207.8	4183.8	3911.4	3502.4	3061.7	2847.9	2801.6
17.5°	3690.7	3875.1	3897.5	3935.3	3988.6	3906.0	3621.2	3187.5	2956.7	2899.6
20°	3830.4	3772.5	3679.9	3696.1	3818.0	3928.4	3832.7	3466.1	3185.1	3124.2
22.5°	4068.1	3747.0	3537.1	3523.2	3677.5	4003.2	4142.9	3843.5	3517.8	3457.6
25°	4359.8	3811.1	3484.6	3454.5	3622.7	4112.8	4480.2	4305.8	3950.0	3858.1
27.5°	4677.8	3943.8	3484.6	3455.3	3618.1	4210.1	4768.8	4714.8	4397.6	4297.3
30°	4852.2	4053.4	3534.8	3501.6	3675.2	4266.4	4923.2	5078.3	4734.1	4609.9
32.5°	5008.1	4205.4	3632.8	3570.3	3794.9	4349.8	5061.4	5387.0	5001.9	4918.6
35°	5151.7	4368.3	3767.8	3695.3	3952.3	4464.0	5214.2	5711.2	5374.7	5248.9
37.5°	5309.9	4557.4	3978.5	3916.8	4215.5	4686.3	5395.5	6137.2	5741.3	5583.1
40°	5482.0	4776.6	4325.1	4298.8	4633.8	4937.9	5624.8	6591.8	6159.6	5979.8
42.5°	5657.2	5028.9	4749.6	4792.8	5107.7	5290.6	5860.1	6941.4	6502.3	6303.9
45°	5816.2	5351.5	5301.4	5515.2	5660.3	5634.8	6034.6	7187.6	6801.0	6611.1
47.5°	6016.8	5821.6	5969.0	6298.5	6302.4	6009.1	6166.5	7389.0	7058.0	6868.1
50°	6241.4	6376.5	6831.0	7166.8	7076.5	6377.2	6320.9	7627.5	7323.4	7171.4
52.5°	6501.5	6997.8	7627.5	8000.3	7789.6	6778.6	6577.9	7885.3	7744.8	7599.0
55°	6804.0	7421.5	8421.7	8718.8	8506.6	7277.1	6968.4	8234.9	8221.0	8121.5
57.5°	7145.9	7869.1	8881.7	9283.8	9094.7	7862.2	7514.1	8564.5	8512.0	8456.4
59°	7416.1	8099.1	9084.7	9501.4	9387.2	8272.0	7880.7	8769.8	8579.1	8495.8
60°	7579.7	8255.0	9159.5	9530.7	9504.5	8515.9	8113.0	8870.1	8578.4	8462.6
62.5°	8065.1	8527.4	9131.0	9400.3	9503.0	8983.6	8794.5	8980.5	8419.4	8249.6
65°	8238.0	8437.1	8657.9	8624.7	8712.7	8959.6	9229.8	8859.3	8079.8	7838.2
67.5°	7901.5	7446.9	7524.9	7303.4	7260.2	7965.6	9053.0	8266.6	7415.3	7119.7
70°	6660.5	5705.0	5665.7	5767.5	5488.1	6449.0	8129.2	7125.1	6318.6	5983.6
72.5°	5242.7	4031.8	3699.9	4075.0	4066.5	4920.1	6753.1	5055.9	4268.7	4240.2
75°	4122.9	2807.0	2463.5	2524.5	2641.8	3561.8	5378.6	3210.6	2628.7	2395.6
77.5°	2767.6	1988.9	1855.4	1780.5	1907.1	2286.8	3402.8	1741.1	1474.1	1396.2
80°	1595.3	1444.8	1640.8	1489.5	1557.5	1440.9	1692.5	798.8	663.0	717.8
82.5°	1038.0	822.7	876.7	651.4	890.6	898.4	543.3	236.2	199.9	212.2
85°	649.1	385.9	216.9	154.4	307.2	564.9	169.8	14.7	17.0	14.7
87.5°	168.2	64.1	27.0	40.1	49.4	44.0	39.4	2.3	0.8	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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