

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: P534192

Luminaire Tested: **GALN-SA9C-830-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-830-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37719 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 481
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



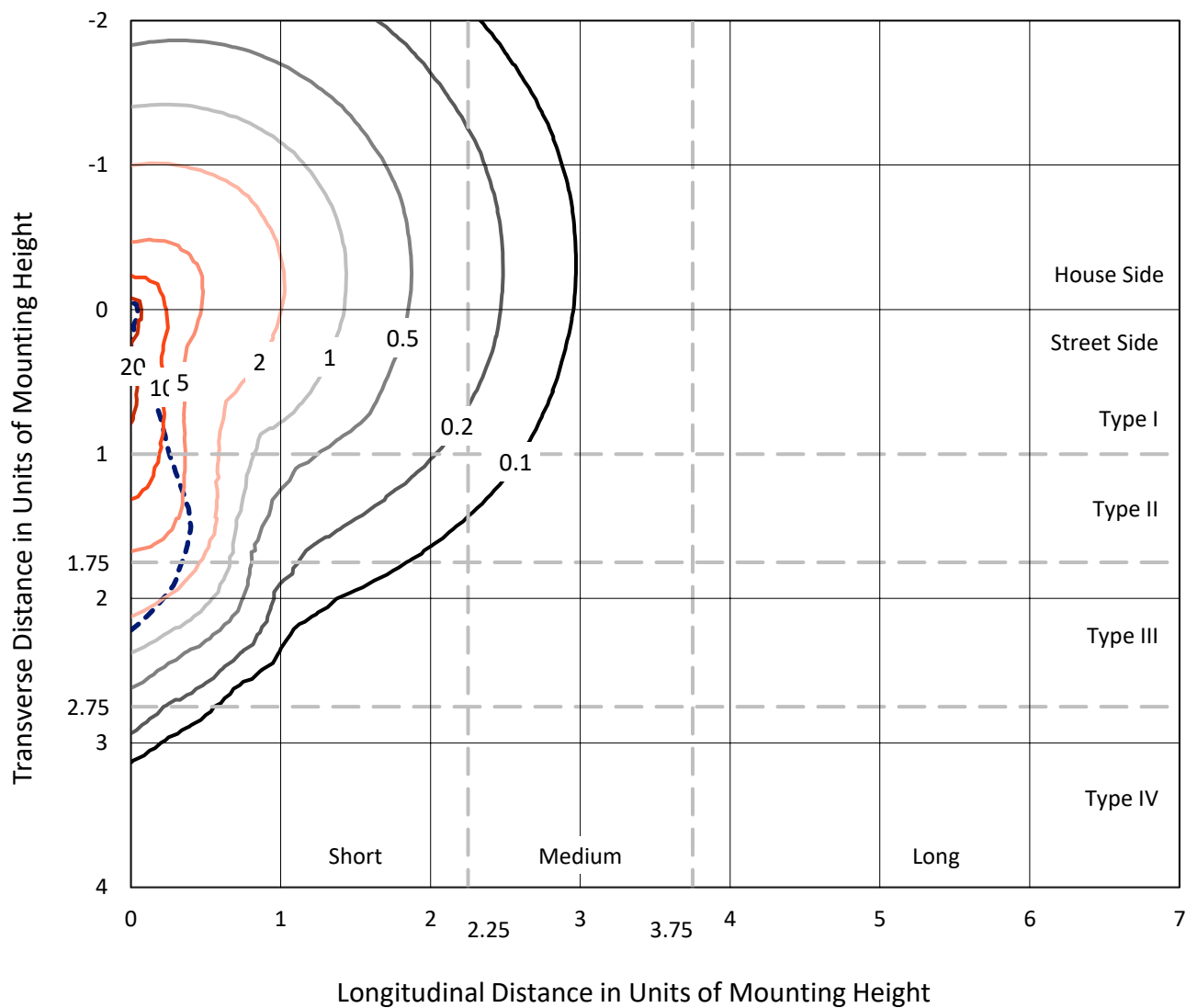
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



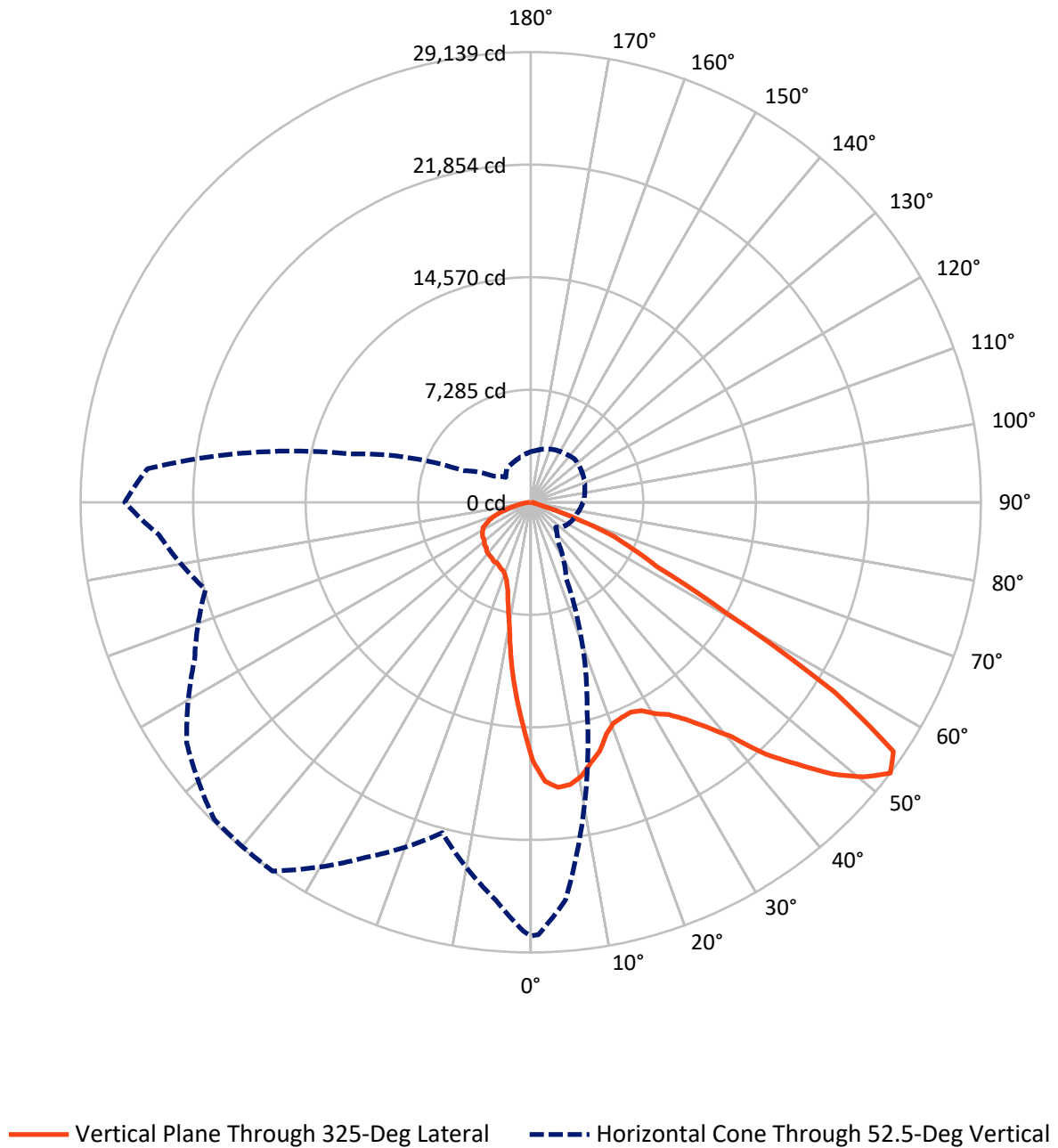
Based on 25 foot mounting height. Maximum calculated value = 26.8 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11370.7	0.0	11370.7
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	26348.3	0.0	26348.3
	% Fixture	69.9	0.0	69.9
Total	Lumens	37719.0	0.0	37719.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1277.1	3.4
10°-20°	2768.6	7.3
20°-30°	4183.1	11.1
30°-40°	6044.8	16.0
40°-50°	8044.5	21.3
50°-60°	8998.0	23.9
60°-70°	5071.2	13.4
70°-80°	1130.4	3.0
80°-90°	201.3	0.5
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°	37719.0	100.0
0°-180°	37719.0	100.0

Coefficient of Utilization



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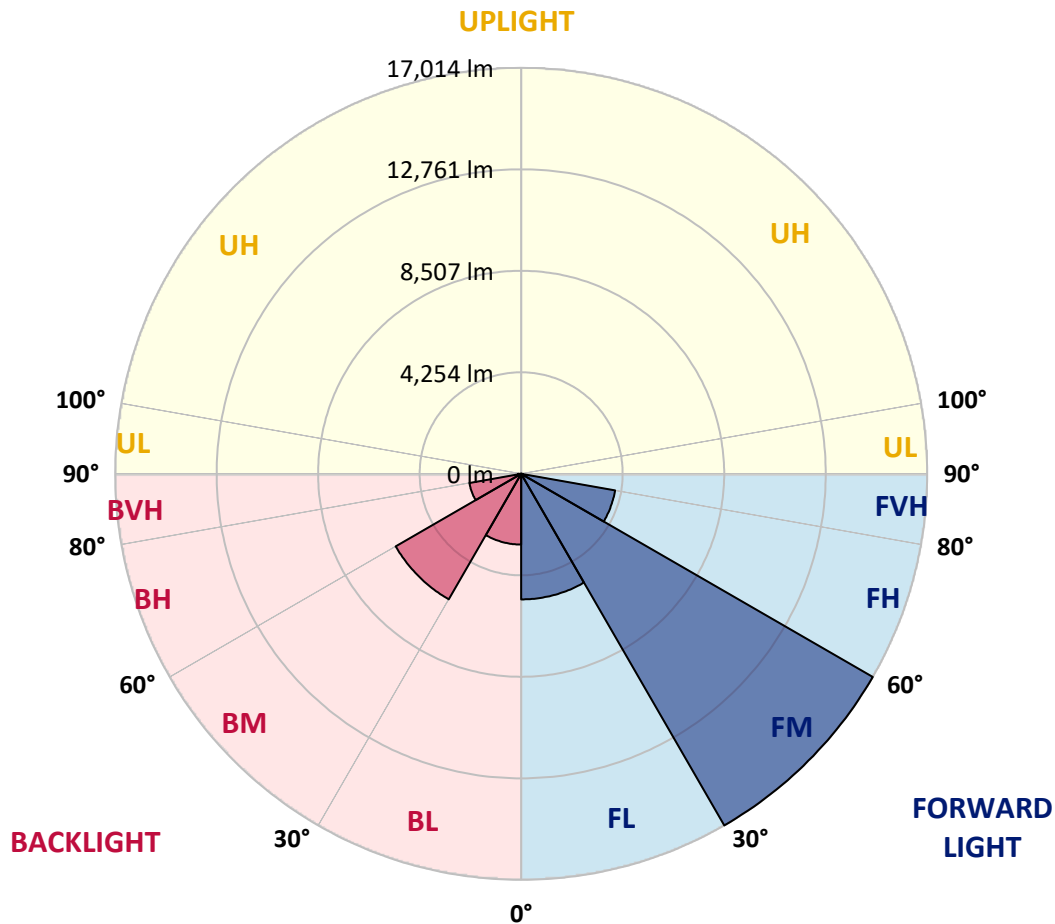
CATALOG NUMBER: GALN-SA9C-830-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5263.6	14.0			
FM	(30°-60°)	17014.2	45.1			
FH	(60°-80°)	3997.7	10.6			G2/5000
FVH	(80°-90°)	72.9	0.2			G1/100
BL	(0°-30°)	2965.2	7.9	B4/5000		
BM	(30°-60°)	6073.1	16.1	B4/8500		
BH	(60°-80°)	2204.0	5.8	B3/2500		G3/2500
BVH	(80°-90°)	128.4	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16739.9	16739.9	16739.9	16739.9	16739.9	16739.9	16739.9	16739.9	16739.9	16739.9	16739.9
2.5°	17018.7	17292.1	16996.9	16472.0	16100.3	15761.3	15406.0	15334.9	14870.2	14788.2	14449.3
5°	16051.1	15990.9	15630.1	14941.3	14181.4	13492.5	12984.1	12492.1	12158.6	11770.4	11743.1
7.5°	14875.7	14525.8	14318.0	13273.9	12333.5	11251.1	10786.4	10037.4	9802.3	9452.4	9272.0
10°	13826.0	13569.1	13082.5	12038.3	10726.2	10010.1	9512.6	9108.0	8834.7	8473.8	8020.1
12.5°	13306.7	13202.8	12656.1	11037.9	10064.7	9299.4	8949.5	8555.8	8091.1	7511.6	7287.5
15°	13399.6	13049.7	12634.2	10846.5	9501.6	8763.6	8206.0	7713.9	7118.0	6565.9	6243.3
17.5°	14093.9	13826.0	12995.0	10966.8	9288.4	8222.4	7211.0	6483.9	5948.1	5450.6	5226.4
20°	15460.6	15072.5	14137.6	11119.9	8829.2	7467.9	6308.9	5412.3	4838.3	4575.9	4499.3
22.5°	16975.0	16745.4	15252.9	11464.3	8462.9	6768.1	5352.2	4455.6	4242.4	4171.3	4313.5
25°	18817.4	18221.5	16985.9	12027.4	8178.6	6172.2	4543.1	4045.6	3936.2	4007.3	4171.3
27.5°	20216.9	20058.4	18199.6	12557.7	7790.5	5456.1	4089.3	3761.3	3794.1	3865.2	4018.2
30°	21878.9	21075.2	19375.0	12924.0	7440.6	4964.0	3772.2	3684.8	3717.6	3837.8	3914.4
32.5°	22879.4	22578.7	20113.1	13476.1	7036.0	4537.6	3526.2	3444.2	3493.4	3673.8	3854.2
35°	24153.2	23557.3	21026.0	13618.3	6751.7	4368.1	3351.3	3291.1	3405.9	3531.7	3734.0
37.5°	25640.2	25230.2	22288.9	13519.9	6598.7	4193.2	3203.7	3176.3	3258.3	3433.3	3668.4
40°	26520.4	26394.6	22950.4	13580.0	6358.1	4040.1	3034.2	3067.0	3236.5	3373.1	3602.7
42.5°	27367.8	26547.7	23929.0	13558.1	6205.0	3832.4	3050.6	3012.3	3143.5	3302.1	3520.7
45°	27553.6	26739.0	24158.6	13405.1	6019.2	3630.1	2924.8	2941.2	3099.8	3296.6	3438.7
47.5°	27433.4	26832.0	24585.1	13361.3	5844.2	3487.9	2739.0	2935.8	3028.7	3187.3	3389.5
50°	27351.4	27318.6	24945.9	13569.1	5609.1	3263.8	2514.8	2864.7	2957.6	3116.2	3334.9
52.5°	28073.0	28001.9	25847.9	14115.8	5423.3	3023.2	2285.2	2684.3	2908.4	3061.5	3274.7
55°	28510.4	28198.7	27395.1	14788.2	5111.6	2706.2	2126.7	2460.1	2788.2	2924.8	3143.5
57.5°	25645.7	25432.4	24781.9	13804.2	4586.8	2290.7	1929.8	2230.5	2624.2	2837.4	3061.5
60°	21337.7	21004.2	19336.7	11732.2	3384.1	1782.2	1809.6	2050.1	2580.4	2662.4	2924.8
62.5°	20118.5	19293.0	17024.2	9441.5	2596.8	1530.8	1623.7	1886.1	2350.8	2487.5	2749.9
65°	15963.6	15351.3	12180.5	6817.3	1738.5	1328.5	1481.6	1700.2	2028.3	2296.1	2536.7
67.5°	9993.7	9408.7	6500.3	3225.5	1213.7	1137.1	1323.0	1552.6	1820.5	2061.1	2328.9
70°	5221.0	4581.3	3001.4	1164.5	836.4	929.4	1104.3	1323.0	1585.4	1782.2	1990.0
72.5°	1946.2	1580.0	978.6	503.0	579.5	710.7	896.6	1055.1	1241.0	1481.6	1596.4
75°	300.7	256.9	251.5	306.2	393.6	513.9	639.6	798.2	962.2	1115.3	1191.8
77.5°	142.1	136.7	153.1	202.3	262.4	366.3	464.7	617.8	749.0	847.4	891.1
80°	92.9	87.5	98.4	136.7	196.8	273.3	371.8	475.6	595.9	677.9	667.0
82.5°	54.7	60.1	60.1	92.9	136.7	196.8	267.9	360.8	442.8	513.9	470.2
85°	32.8	27.3	27.3	54.7	92.9	158.5	224.1	153.1	158.5	158.5	180.4
87.5°	10.9	10.9	10.9	5.5	10.9	10.9	16.4	27.3	32.8	38.3	49.2
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°	16739.9	16739.9	16739.9	16739.9	16739.9	16739.9	16739.9	16739.9	16739.9	16739.9	16739.9
2.5°	14438.3	14607.8	14547.7	14334.4	14498.5	14525.8	14416.5	14793.7	14864.7	14749.9	14782.7
5°	11704.8	11748.6	11847.0	12054.7	12202.3	12377.3	12377.3	12388.2	12240.6	12612.3	12503.0
7.5°	9118.9	9146.3	9261.1	9703.9	9829.6	10163.1	10305.3	10206.9	9911.7	9785.9	9889.8
10°	7872.5	7713.9	7675.7	7730.3	8014.6	8156.7	8277.0	8244.2	8195.0	8096.6	7987.3
12.5°	7041.5	6926.7	6833.7	6702.5	6718.9	6855.6	6948.5	6872.0	6893.9	6915.7	6948.5
15°	6139.4	6057.4	6008.2	5811.4	5789.5	5882.5	5915.3	5959.0	6041.0	6046.5	6008.2
17.5°	5182.7	5111.6	5221.0	5330.3	5253.8	5259.2	5319.4	5357.7	5335.8	5237.4	5188.2
20°	4526.7	4603.2	4712.5	4816.4	4898.4	4947.6	4969.5	4909.4	4838.3	4636.0	4630.5
22.5°	4335.3	4433.7	4526.7	4685.2	4761.7	4887.5	4772.7	4636.0	4537.6	4439.2	4324.4
25°	4193.2	4275.2	4461.1	4521.2	4668.8	4772.7	4690.7	4554.0	4384.5	4242.4	4154.9
27.5°	4089.3	4182.2	4302.5	4466.5	4581.3	4641.5	4559.5	4504.8	4329.9	4160.4	4034.6
30°	4023.7	4122.1	4340.8	4477.5	4575.9	4625.1	4482.9	4417.3	4291.6	4149.4	4040.1
32.5°	3980.0	4067.4	4253.3	4428.3	4493.9	4493.9	4515.7	4439.2	4264.3	4023.7	3930.8
35°	3837.8	3958.1	4111.2	4313.5	4433.7	4504.8	4395.5	4308.0	4193.2	3947.2	3777.7
37.5°	3755.8	3837.8	4034.6	4226.0	4329.9	4406.4	4362.7	4209.6	4056.5	3854.2	3717.6
40°	3668.4	3799.6	3974.5	4154.9	4269.7	4346.3	4313.5	4133.0	3947.2	3755.8	3662.9
42.5°	3608.2	3695.7	3876.1	4078.4	4215.0	4362.7	4264.3	4040.1	3908.9	3646.5	3542.6
45°	3559.0	3701.2	3892.5	3974.5	4116.6	4269.7	4094.8	3958.1	3805.0	3613.7	3526.2
47.5°	3498.9	3630.1	3755.8	3974.5	4040.1	4111.2	4078.4	3859.7	3728.5	3520.7	3460.6
50°	3477.0	3526.2	3755.8	3876.1	3969.0	4040.1	3952.6	3788.6	3662.9	3449.7	3318.5
52.5°	3389.5	3482.5	3630.1	3788.6	3903.4	3990.9	3848.8	3744.9	3575.4	3351.3	3269.3
55°	3280.2	3334.9	3597.3	3761.3	3821.4	3881.6	3826.9	3657.4	3482.5	3252.9	3170.9
57.5°	3138.1	3263.8	3477.0	3706.6	3783.2	3816.0	3728.5	3591.8	3373.1	3170.9	3039.6
60°	2990.4	3121.7	3356.7	3542.6	3619.1	3739.4	3608.2	3526.2	3274.7	3050.6	2908.4
62.5°	2842.8	2990.4	3165.4	3400.5	3466.1	3515.3	3482.5	3367.7	3165.4	2913.9	2739.0
65°	2667.9	2777.2	2995.9	3116.2	3159.9	3274.7	3159.9	3116.2	2935.8	2695.2	2547.6
67.5°	2405.5	2498.4	2689.8	2804.6	2837.4	2886.6	2881.1	2831.9	2629.6	2465.6	2334.4
70°	2104.8	2186.8	2307.1	2443.7	2460.1	2520.3	2465.6	2454.7	2323.5	2099.3	2028.3
72.5°	1689.3	1765.8	1924.4	1984.5	1990.0	2011.9	1984.5	1946.2	1913.4	1678.4	1607.3
75°	1295.7	1339.4	1416.0	1470.6	1470.6	1498.0	1481.6	1443.3	1355.8	1208.2	1137.1
77.5°	902.1	945.8	1044.2	1077.0	1071.5	1082.5	1033.3	995.0	863.8	787.2	727.1
80°	656.0	683.4	732.6	754.4	759.9	776.3	716.2	683.4	606.8	519.4	492.0
82.5°	475.6	492.0	497.5	524.8	524.8	497.5	481.1	448.3	393.6	339.0	317.1
85°	196.8	202.3	207.7	240.5	246.0	295.2	273.3	256.9	224.1	191.3	174.9
87.5°	49.2	54.7	71.1	60.1	71.1	71.1	76.5	87.5	87.5	71.1	71.1
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°	16739.9	16739.9	16739.9	16739.9	16739.9	16739.9	16739.9	16739.9	16739.9	16739.9	16739.9
2.5°	14908.5	14952.2	15509.9	15580.9	15854.3	16133.1	16696.2	17100.7	17428.8	17642.0	17702.1
5°	12617.8	12896.6	13153.6	13569.1	13946.3	14482.1	15099.8	15865.2	16827.4	17319.4	17516.2
7.5°	9878.9	10206.9	10578.6	10983.2	11535.3	12497.5	13323.1	14208.7	15438.8	15947.2	16718.1
10°	8063.8	8430.1	8922.1	9233.7	9900.7	10819.2	11781.4	12803.7	13979.1	14711.7	15602.8
12.5°	7129.0	7429.6	7883.4	8539.4	9036.9	9632.8	10349.0	11639.2	13323.1	14017.4	14629.7
15°	6095.7	6429.2	6954.0	7681.1	8277.0	8987.7	9791.4	11196.4	12989.6	14061.1	14580.5
17.5°	5242.8	5483.4	6035.6	6664.3	7347.6	8123.9	9277.5	11174.5	13339.5	14711.7	15559.1
20°	4652.4	4685.2	4985.9	5521.7	6451.0	7462.4	8960.4	11065.2	14460.2	15832.4	16903.9
22.5°	4280.7	4247.9	4253.3	4707.1	5357.7	6811.9	8462.9	11436.9	15734.0	17614.6	18336.3
25°	4094.8	4007.3	3952.6	4051.0	4641.5	6041.0	8085.7	11929.0	17106.2	19085.3	19970.9
27.5°	3996.4	3843.3	3734.0	3750.4	4182.2	5652.9	7850.6	12142.2	18467.5	21135.4	21447.0
30°	3958.1	3766.8	3608.2	3553.5	3837.8	5111.6	7347.6	12508.5	19686.6	22261.6	22529.5
32.5°	3821.4	3586.3	3433.3	3384.1	3498.9	4636.0	6986.8	12770.9	20763.6	23486.2	23393.3
35°	3662.9	3466.1	3274.7	3181.8	3263.8	4329.9	6697.1	12645.1	22032.0	24437.4	24388.2
37.5°	3646.5	3389.5	3231.0	3077.9	3072.4	3952.6	6303.4	12765.4	22841.1	26143.1	25470.7
40°	3504.3	3340.3	3132.6	3006.8	2935.8	3761.3	5920.8	12481.1	24027.4	26832.0	26170.5
42.5°	3509.8	3263.8	3083.4	2935.8	2864.7	3482.5	5658.3	12404.6	24442.9	27952.7	26498.5
45°	3422.3	3181.8	3028.7	2853.8	2815.5	3269.3	5406.9	12049.2	25175.5	28007.4	26088.5
47.5°	3334.9	3121.7	2957.6	2749.9	2662.4	3192.7	5210.0	11754.0	24792.8	27493.5	25519.9
50°	3274.7	3028.7	2875.6	2728.0	2482.0	3061.5	4953.1	11683.0	24257.0	26799.2	24464.8
52.5°	3170.9	2952.2	2793.6	2678.8	2285.2	2941.2	4854.7	12098.4	24913.1	26279.8	24158.6
55°	3072.4	2848.3	2646.0	2421.9	2121.2	2624.2	4581.3	12486.6	25869.8	27477.1	25547.2
57.5°	2968.6	2755.4	2536.7	2268.8	1962.6	2296.1	4297.1	12557.7	24076.6	25394.2	24251.6
60°	2831.9	2558.6	2394.5	2044.7	1793.2	1902.5	3405.9	11070.7	18675.2	21206.5	21244.7
62.5°	2678.8	2383.6	2241.5	1831.4	1618.2	1640.1	2777.2	9304.8	15149.0	17554.5	18598.7
65°	2476.5	2192.3	2022.8	1694.8	1492.5	1421.4	2033.7	6817.3	11508.0	14241.5	15427.8
67.5°	2214.1	1946.2	1733.0	1476.1	1333.9	1219.1	1388.6	3837.8	6795.5	9561.8	9922.6
70°	1935.3	1705.7	1481.6	1268.3	1109.8	1027.8	1016.9	1700.2	3247.4	5144.4	5855.1
72.5°	1525.3	1361.3	1180.9	1022.3	918.5	798.2	727.1	705.2	1098.9	2093.9	2892.0
75°	1093.4	956.7	852.9	749.0	672.4	606.8	552.2	503.0	459.2	524.8	721.6
77.5°	688.8	639.6	557.6	530.3	486.6	470.2	448.3	421.0	388.2	366.3	366.3
80°	464.7	431.9	404.6	399.1	382.7	377.2	382.7	355.4	322.6	295.2	306.2
82.5°	311.6	306.2	300.7	295.2	300.7	306.2	317.1	311.6	284.3	267.9	273.3
85°	185.9	196.8	207.7	218.7	240.5	213.2	174.9	147.6	131.2	120.3	114.8
87.5°	71.1	98.4	87.5	82.0	87.5	82.0	76.5	71.1	60.1	54.7	54.7
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°	16739.9	16739.9	16739.9	16739.9	16739.9	16739.9	16739.9	16739.9	16739.9	16739.9
2.5°	18101.2	18210.5	18303.5	18281.6	18090.3	17833.3	17729.4	17199.2	17089.8	17018.7
5°	18347.2	18981.4	19118.1	19036.1	18538.6	17909.9	17297.6	16521.2	16067.5	16051.1
7.5°	17893.5	18675.2	18921.3	19107.1	18445.6	17352.2	16302.6	15138.1	14853.8	14875.7
10°	16739.9	17986.4	18593.2	18784.6	18024.7	17078.9	15624.7	14443.8	13837.0	13826.0
12.5°	16100.3	17078.9	17248.4	17516.2	17292.1	16335.4	15231.0	13908.0	13317.6	13306.7
15°	15531.7	16176.8	16226.0	16603.2	16723.5	16078.4	15334.9	13924.4	13448.8	13399.6
17.5°	16029.2	15580.9	15395.0	15444.2	15799.6	16034.7	15936.3	14853.8	14367.3	14093.9
20°	16362.7	15362.2	14799.1	14853.8	15274.8	16133.1	16832.9	16198.7	15427.8	15460.6
22.5°	17253.8	15395.0	14514.9	14454.7	15121.7	16647.0	17844.3	17898.9	17155.4	16975.0
25°	18587.8	15772.3	14427.4	14411.0	15050.6	17199.2	19025.1	19910.8	19150.9	18817.4
27.5°	19659.3	16362.7	14700.7	14755.4	15274.8	17647.4	20031.1	21206.5	20627.0	20216.9
30°	20599.6	16975.0	15083.4	14831.9	15876.1	17882.5	20462.9	22682.5	22217.8	21878.9
32.5°	20987.8	17844.3	15690.3	15274.8	16373.6	18166.8	21359.5	24114.9	23715.8	22879.4
35°	21643.8	18330.8	16018.3	15985.5	17242.9	18850.2	21780.5	25060.7	24896.7	24153.2
37.5°	22168.6	18822.8	17182.8	16821.9	18434.7	19998.3	22458.4	26367.3	25990.1	25640.2
40°	22573.2	19703.0	18270.7	18746.3	19899.8	21042.4	23081.6	26449.3	27537.2	26520.4
42.5°	22201.4	20490.3	20058.4	21195.5	22288.9	22234.2	23152.7	27083.5	27898.1	27367.8
45°	22108.5	21824.2	22884.8	23918.1	24169.6	23223.8	22644.3	26383.7	27788.7	27553.6
47.5°	21884.4	23136.3	24984.1	26668.0	26285.3	23885.3	22037.4	26258.0	27854.3	27433.4
50°	21807.8	23420.6	26536.8	28176.9	27947.3	24459.3	21753.2	25448.8	27389.6	27351.4
52.5°	21802.4	24005.6	27181.9	28996.9	29139.1	25366.8	22141.3	25858.9	27750.4	28073.0
55°	22048.4	23819.7	27099.9	28543.2	28488.5	24962.3	22185.0	26132.2	28193.3	28510.4
57.5°	20796.4	21337.7	22365.5	23508.1	23212.8	20676.2	19812.4	24158.6	25875.3	25645.7
60°	17959.1	16264.3	15105.3	15050.6	14476.6	13683.9	16215.1	21561.8	21561.8	21337.7
62.5°	15728.5	10677.0	9173.6	8747.2	9157.2	10070.2	15641.1	20971.4	20375.5	20118.5
65°	13754.9	8151.3	6631.5	6511.2	7221.9	8599.6	14143.1	17866.1	16816.5	15963.6
67.5°	8851.1	5970.0	4931.2	4718.0	5576.3	6314.4	9414.2	10988.7	10327.1	9993.7
70°	5707.5	3887.0	2744.4	2575.0	2908.4	3892.5	6013.7	6407.3	5445.1	5221.0
72.5°	2700.7	1678.4	962.2	792.7	891.1	1487.0	2378.1	2558.6	2126.7	1946.2
75°	858.3	617.8	393.6	339.0	322.6	382.7	546.7	421.0	306.2	300.7
77.5°	382.7	366.3	311.6	262.4	229.6	191.3	158.5	131.2	136.7	142.1
80°	317.1	289.8	256.9	229.6	191.3	147.6	114.8	87.5	87.5	92.9
82.5°	278.8	251.5	224.1	191.3	164.0	120.3	87.5	60.1	54.7	54.7
85°	120.3	142.1	153.1	164.0	131.2	98.4	60.1	38.3	32.8	32.8
87.5°	49.2	43.7	38.3	32.8	27.3	27.3	21.9	16.4	10.9	10.9
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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