

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: P532554

Luminaire Tested: **GALN-SA7D-830-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532554
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-SA7D-830-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA 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: 31889 lumens
Efficiency: N/A
Efficacy: 73.6 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): 433
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



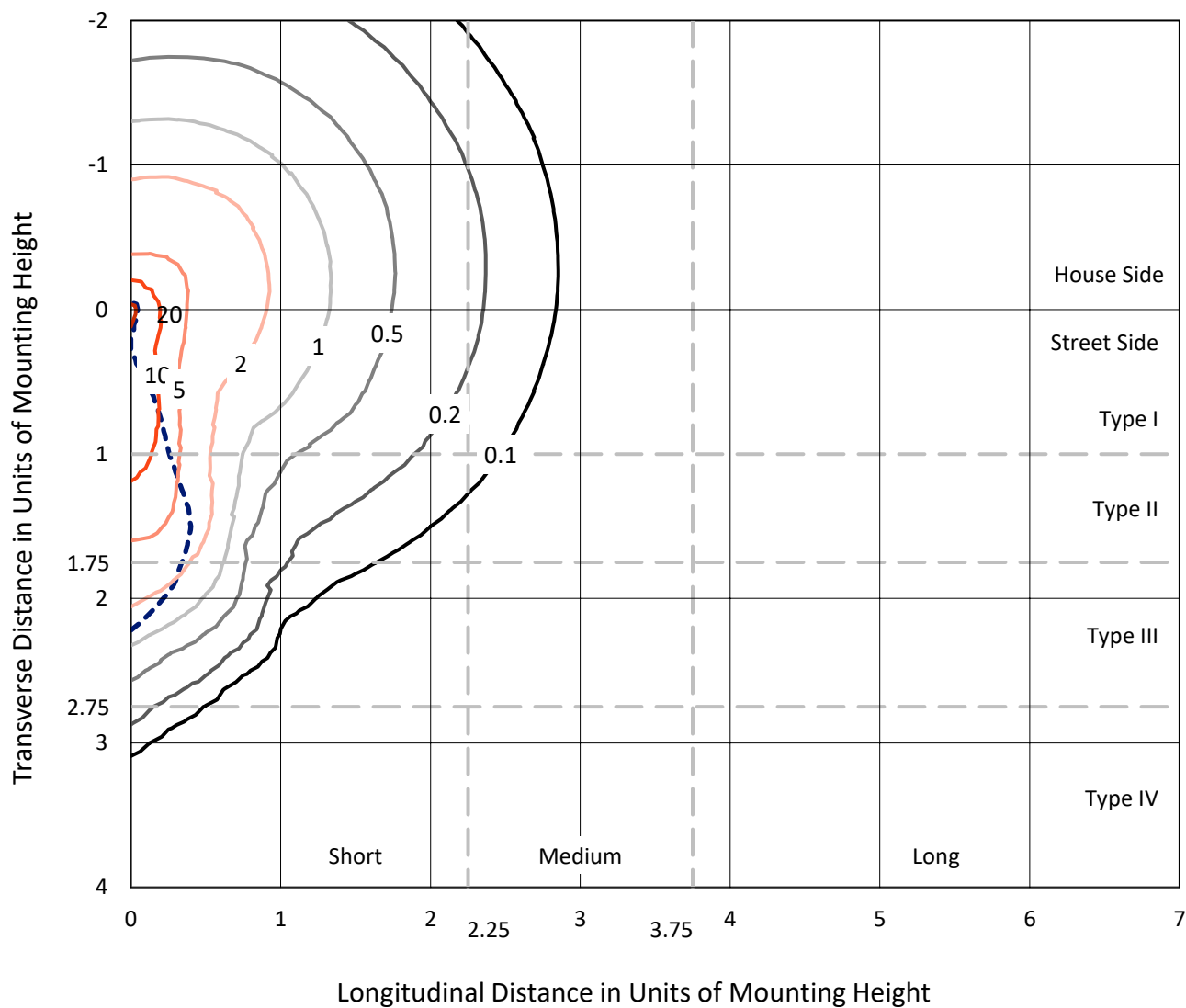
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



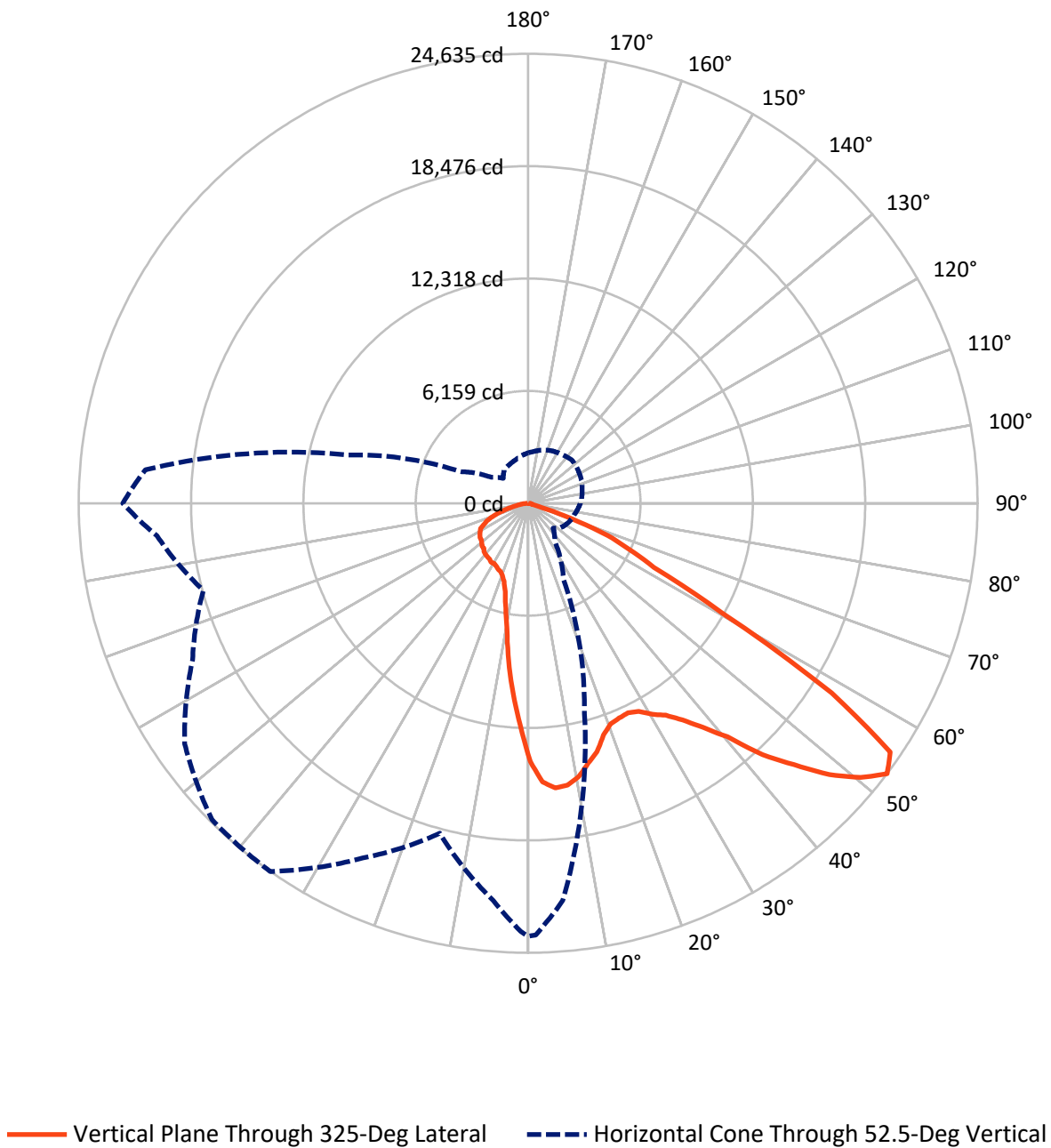
Based on 25 foot mounting height. Maximum calculated value = 22.6 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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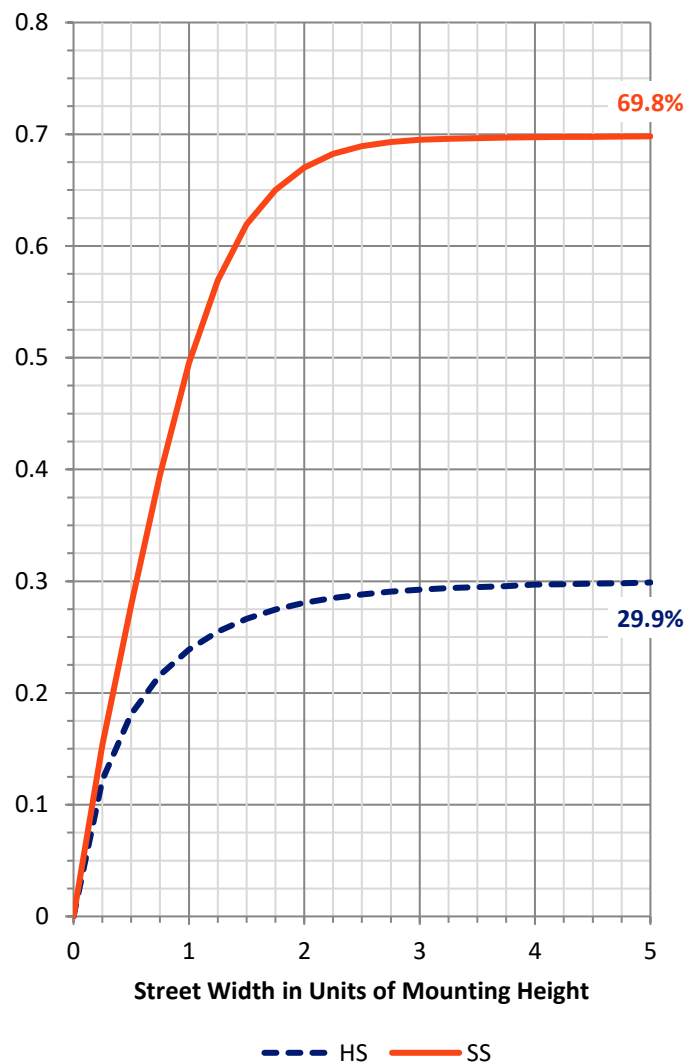
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9613.2	0.0	9613.2
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	22275.8	0.0	22275.8
	% Fixture	69.9	0.0	69.9
Total	Lumens	31889.0	0.0	31889.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1079.7	3.4
10°-20°	2340.7	7.3
20°-30°	3536.5	11.1
30°-40°	5110.5	16.0
40°-50°	6801.1	21.3
50°-60°	7607.2	23.9
60°-70°	4287.4	13.4
70°-80°	955.7	3.0
80°-90°	170.2	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°	31889.0	100.0
0°-180°	31889.0	100.0

Coefficient of Utilization



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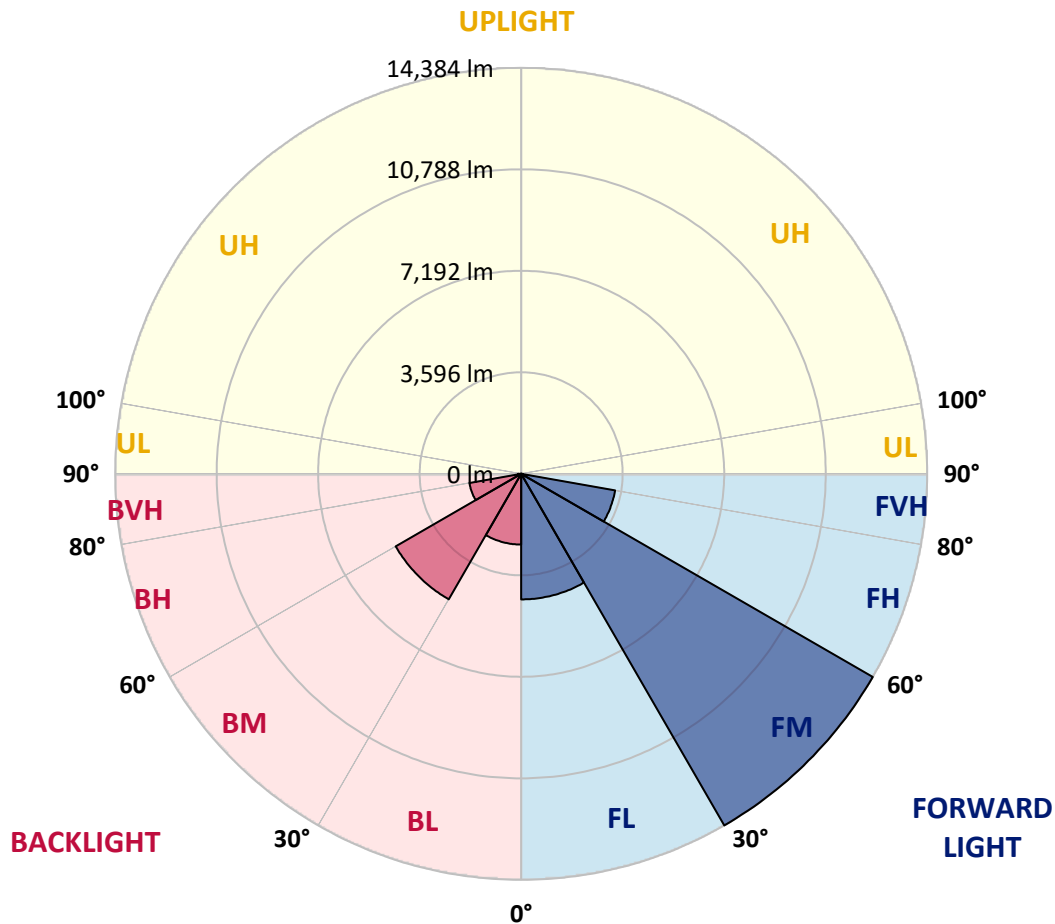
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4450.0	14.0			
FM	(30°-60°)	14384.4	45.1			
FH	(60°-80°)	3379.8	10.6			G2/5000
FVH	(80°-90°)	61.6	0.2			G1/100
BL	(0°-30°)	2506.9	7.9	B4/5000		
BM	(30°-60°)	5134.4	16.1	B4/8500		
BH	(60°-80°)	1863.3	5.8	B3/2500		G3/2500
BVH	(80°-90°)	108.6	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°	14152.5	14152.5	14152.5	14152.5	14152.5	14152.5	14152.5	14152.5	14152.5	14152.5	14152.5
2.5°	14388.3	14619.4	14369.8	13926.1	13611.8	13325.2	13024.8	12964.7	12571.8	12502.5	12215.9
5°	13570.2	13519.3	13214.3	12631.9	11989.4	11407.1	10977.2	10561.2	10279.3	9951.1	9928.0
7.5°	12576.4	12280.6	12105.0	11222.2	10427.2	9512.1	9119.2	8486.0	8287.2	7991.4	7838.9
10°	11689.0	11471.8	11060.4	10177.6	9068.3	8462.9	8042.3	7700.2	7469.1	7164.1	6780.5
12.5°	11249.9	11162.1	10699.9	9331.8	8509.1	7862.0	7566.2	7233.4	6840.5	6350.6	6161.1
15°	11328.5	11032.7	10681.4	9170.0	8033.0	7409.1	6937.6	6521.6	6017.8	5551.0	5278.3
17.5°	11915.5	11689.0	10986.5	9271.7	7852.8	6951.5	6096.4	5481.7	5028.7	4608.1	4418.6
20°	13071.0	12742.8	11952.5	9401.1	7464.5	6313.6	5333.8	4575.8	4090.5	3868.6	3803.9
22.5°	14351.3	14157.2	12895.4	9692.3	7154.8	5722.0	4524.9	3766.9	3586.7	3526.6	3646.8
25°	15908.9	15405.1	14360.5	10168.4	6914.5	5218.2	3840.9	3420.3	3327.8	3387.9	3526.6
27.5°	17092.1	16958.1	15386.6	10616.7	6586.3	4612.7	3457.2	3179.9	3207.7	3267.7	3397.2
30°	18497.2	17817.8	16380.3	10926.4	6290.5	4196.8	3189.2	3115.2	3143.0	3244.6	3309.3
32.5°	19343.0	19088.8	17004.3	11393.2	5948.5	3836.3	2981.2	2911.9	2953.5	3106.0	3258.5
35°	20420.0	19916.2	17776.2	11513.4	5708.2	3693.0	2833.3	2782.4	2879.5	2985.8	3156.8
37.5°	21677.1	21330.5	18843.9	11430.2	5578.7	3545.1	2708.5	2685.4	2754.7	2902.6	3101.4
40°	22421.3	22315.0	19403.1	11481.0	5375.4	3415.7	2565.2	2592.9	2736.2	2851.8	3045.9
42.5°	23137.7	22444.4	20230.5	11462.5	5246.0	3240.0	2579.1	2546.7	2657.6	2791.7	2976.6
45°	23294.8	22606.2	20424.6	11333.1	5088.8	3069.0	2472.8	2486.6	2620.7	2787.1	2907.2
47.5°	23193.1	22684.7	20785.1	11296.1	4940.9	2948.8	2315.6	2482.0	2560.6	2694.6	2865.6
50°	23123.8	23096.1	21090.1	11471.8	4742.2	2759.3	2126.1	2421.9	2500.5	2634.5	2819.4
52.5°	23733.9	23673.8	21852.8	11934.0	4585.0	2556.0	1932.0	2269.4	2458.9	2588.3	2768.6
55°	24103.7	23840.2	23160.8	12502.5	4321.6	2287.9	1798.0	2079.9	2357.2	2472.8	2657.6
57.5°	21681.8	21501.5	20951.5	11670.5	3877.8	1936.6	1631.6	1885.8	2218.6	2398.8	2588.3
60°	18039.6	17757.7	16348.0	9918.8	2861.0	1506.8	1529.9	1733.2	2181.6	2250.9	2472.8
62.5°	17008.9	16311.0	14392.9	7982.2	2195.4	1294.2	1372.7	1594.6	1987.5	2103.0	2324.9
65°	13496.2	12978.5	10297.8	5763.6	1469.8	1123.1	1252.6	1437.4	1714.8	1941.2	2144.6
67.5°	8449.0	7954.4	5495.5	2727.0	1026.1	961.4	1118.5	1312.6	1539.1	1742.5	1969.0
70°	4414.0	3873.2	2537.5	984.5	707.2	785.7	933.6	1118.5	1340.4	1506.8	1682.4
72.5°	1645.4	1335.8	827.3	425.2	489.9	600.9	758.0	892.0	1049.2	1252.6	1349.6
75°	254.2	217.2	212.6	258.8	332.8	434.5	540.8	674.8	813.5	942.9	1007.6
77.5°	120.2	115.5	129.4	171.0	221.9	309.7	392.9	522.3	633.2	716.4	753.4
80°	78.6	74.0	83.2	115.5	166.4	231.1	314.3	402.1	503.8	573.1	563.9
82.5°	46.2	50.8	50.8	78.6	115.5	166.4	226.5	305.1	374.4	434.5	397.5
85°	27.7	23.1	23.1	46.2	78.6	134.0	189.5	129.4	134.0	134.0	152.5
87.5°	9.2	9.2	9.2	4.6	9.2	9.2	13.9	23.1	27.7	32.4	41.6
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°	14152.5	14152.5	14152.5	14152.5	14152.5	14152.5	14152.5	14152.5	14152.5	14152.5	14152.5
2.5°	12206.7	12350.0	12299.1	12118.9	12257.5	12280.6	12188.2	12507.1	12567.2	12470.1	12497.9
5°	9895.7	9932.7	10015.9	10191.5	10316.3	10464.2	10464.2	10473.4	10348.6	10662.9	10570.5
7.5°	7709.5	7732.6	7829.7	8204.0	8310.3	8592.3	8712.5	8629.3	8379.7	8273.4	8361.2
10°	6655.7	6521.6	6489.3	6535.5	6775.8	6896.0	6997.7	6970.0	6928.4	6845.2	6752.7
12.5°	5953.1	5856.1	5777.5	5666.6	5680.4	5796.0	5874.5	5809.8	5828.3	5846.8	5874.5
15°	5190.5	5121.2	5079.6	4913.2	4894.7	4973.3	5001.0	5038.0	5107.3	5111.9	5079.6
17.5°	4381.6	4321.6	4414.0	4506.4	4441.7	4446.4	4497.2	4529.6	4511.1	4427.9	4386.3
20°	3827.0	3891.7	3984.2	4072.0	4141.3	4182.9	4201.4	4150.5	4090.5	3919.4	3914.8
22.5°	3665.2	3748.4	3827.0	3961.0	4025.8	4132.1	4035.0	3919.4	3836.3	3753.1	3656.0
25°	3545.1	3614.4	3771.5	3822.4	3947.2	4035.0	3965.7	3850.1	3706.8	3586.7	3512.7
27.5°	3457.2	3535.8	3637.5	3776.2	3873.2	3924.1	3854.7	3808.5	3660.6	3517.3	3411.0
30°	3401.8	3485.0	3669.9	3785.4	3868.6	3910.2	3790.0	3734.6	3628.3	3508.1	3415.7
32.5°	3364.8	3438.8	3595.9	3743.8	3799.3	3799.3	3817.8	3753.1	3605.2	3401.8	3323.2
35°	3244.6	3346.3	3475.7	3646.8	3748.4	3808.5	3716.1	3642.1	3545.1	3337.1	3193.8
37.5°	3175.3	3244.6	3411.0	3572.8	3660.6	3725.3	3688.3	3558.9	3429.5	3258.5	3143.0
40°	3101.4	3212.3	3360.2	3512.7	3609.8	3674.5	3646.8	3494.2	3337.1	3175.3	3096.7
42.5°	3050.5	3124.5	3277.0	3448.0	3563.6	3688.3	3605.2	3415.7	3304.7	3082.9	2995.0
45°	3008.9	3129.1	3290.9	3360.2	3480.4	3609.8	3461.9	3346.3	3216.9	3055.1	2981.2
47.5°	2958.1	3069.0	3175.3	3360.2	3415.7	3475.7	3448.0	3263.1	3152.2	2976.6	2925.7
50°	2939.6	2981.2	3175.3	3277.0	3355.6	3415.7	3341.7	3203.0	3096.7	2916.5	2805.5
52.5°	2865.6	2944.2	3069.0	3203.0	3300.1	3374.1	3253.9	3166.1	3022.8	2833.3	2764.0
55°	2773.2	2819.4	3041.3	3179.9	3230.8	3281.6	3235.4	3092.1	2944.2	2750.1	2680.8
57.5°	2653.0	2759.3	2939.6	3133.7	3198.4	3226.1	3152.2	3036.6	2851.8	2680.8	2569.8
60°	2528.2	2639.2	2837.9	2995.0	3059.8	3161.4	3050.5	2981.2	2768.6	2579.1	2458.9
62.5°	2403.4	2528.2	2676.1	2874.9	2930.3	2971.9	2944.2	2847.1	2676.1	2463.5	2315.6
65°	2255.5	2348.0	2532.9	2634.5	2671.5	2768.6	2671.5	2634.5	2482.0	2278.6	2153.8
67.5°	2033.7	2112.2	2274.0	2371.1	2398.8	2440.4	2435.8	2394.2	2223.2	2084.5	1973.6
70°	1779.5	1848.8	1950.5	2066.0	2079.9	2130.7	2084.5	2075.3	1964.3	1774.8	1714.8
72.5°	1428.2	1492.9	1626.9	1677.8	1682.4	1700.9	1677.8	1645.4	1617.7	1419.0	1358.9
75°	1095.4	1132.4	1197.1	1243.3	1243.3	1266.4	1252.6	1220.2	1146.3	1021.5	961.4
77.5°	762.6	799.6	882.8	910.5	905.9	915.2	873.6	841.2	730.3	665.6	614.7
80°	554.6	577.7	619.3	637.8	642.5	656.3	605.5	577.7	513.0	439.1	416.0
82.5°	402.1	416.0	420.6	443.7	443.7	420.6	406.7	379.0	332.8	286.6	268.1
85°	166.4	171.0	175.6	203.4	208.0	249.6	231.1	217.2	189.5	161.8	147.9
87.5°	41.6	46.2	60.1	50.8	60.1	60.1	64.7	74.0	74.0	60.1	60.1
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°	14152.5	14152.5	14152.5	14152.5	14152.5	14152.5	14152.5	14152.5	14152.5	14152.5	14152.5
2.5°	12604.2	12641.1	13112.6	13172.7	13403.8	13639.5	14115.6	14457.6	14734.9	14915.2	14966.0
5°	10667.6	10903.3	11120.5	11471.8	11790.7	12243.7	12765.9	13413.0	14226.5	14642.5	14808.9
7.5°	8351.9	8629.3	8943.6	9285.6	9752.4	10565.9	11263.8	12012.6	13052.5	13482.3	14134.0
10°	6817.4	7127.1	7543.1	7806.5	8370.4	9146.9	9960.4	10824.7	11818.4	12437.8	13191.2
12.5°	6027.1	6281.3	6664.9	7219.5	7640.1	8143.9	8749.4	9840.2	11263.8	11850.8	12368.4
15°	5153.5	5435.5	5879.2	6493.9	6997.7	7598.6	8278.0	9465.8	10981.8	11887.8	12326.8
17.5°	4432.5	4635.9	5102.7	5634.2	6212.0	6868.3	7843.5	9447.3	11277.7	12437.8	13154.2
20°	3933.3	3961.0	4215.3	4668.2	5453.9	6309.0	7575.4	9354.9	12225.2	13385.3	14291.2
22.5°	3619.0	3591.3	3595.9	3979.5	4529.6	5759.0	7154.8	9669.2	13302.1	14892.1	15502.2
25°	3461.9	3387.9	3341.7	3424.9	3924.1	5107.3	6835.9	10085.2	14462.2	16135.4	16884.1
27.5°	3378.7	3249.3	3156.8	3170.7	3535.8	4779.1	6637.2	10265.4	15613.1	17868.6	18132.1
30°	3346.3	3184.6	3050.5	3004.3	3244.6	4321.6	6212.0	10575.1	16643.8	18820.7	19047.2
32.5°	3230.8	3032.0	2902.6	2861.0	2958.1	3919.4	5906.9	10797.0	17554.3	19856.1	19777.5
35°	3096.7	2930.3	2768.6	2690.0	2759.3	3660.6	5661.9	10690.7	18626.6	20660.3	20618.7
37.5°	3082.9	2865.6	2731.6	2602.2	2597.6	3341.7	5329.2	10792.3	19310.7	22102.4	21533.9
40°	2962.7	2824.0	2648.4	2542.1	2482.0	3179.9	5005.6	10552.0	20313.6	22684.7	22125.5
42.5°	2967.3	2759.3	2606.8	2482.0	2421.9	2944.2	4783.8	10487.3	20664.9	23632.2	22402.8
45°	2893.4	2690.0	2560.6	2412.7	2380.3	2764.0	4571.1	10186.9	21284.3	23678.5	22056.1
47.5°	2819.4	2639.2	2500.5	2324.9	2250.9	2699.2	4404.8	9937.3	20960.7	23244.0	21575.5
50°	2768.6	2560.6	2431.2	2306.4	2098.4	2588.3	4187.5	9877.2	20507.8	22657.0	20683.4
52.5°	2680.8	2495.9	2361.8	2264.8	1932.0	2486.6	4104.3	10228.5	21062.4	22217.9	20424.6
55°	2597.6	2408.1	2237.0	2047.5	1793.3	2218.6	3873.2	10556.6	21871.3	23230.1	21598.6
57.5°	2509.7	2329.5	2144.6	1918.1	1659.3	1941.2	3632.9	10616.7	20355.2	21469.1	20503.1
60°	2394.2	2163.1	2024.4	1728.6	1516.0	1608.5	2879.5	9359.5	15788.7	17928.7	17961.1
62.5°	2264.8	2015.2	1895.0	1548.4	1368.1	1386.6	2348.0	7866.6	12807.5	14841.2	15724.0
65°	2093.8	1853.4	1710.1	1432.8	1261.8	1201.7	1719.4	5763.6	9729.3	12040.3	13043.3
67.5°	1871.9	1645.4	1465.2	1247.9	1127.8	1030.7	1174.0	3244.6	5745.1	8083.9	8388.9
70°	1636.2	1442.1	1252.6	1072.3	938.3	868.9	859.7	1437.4	2745.5	4349.3	4950.2
72.5°	1289.5	1150.9	998.3	864.3	776.5	674.8	614.7	596.2	929.0	1770.2	2445.0
75°	924.4	808.8	721.0	633.2	568.5	513.0	466.8	425.2	388.2	443.7	610.1
77.5°	582.4	540.8	471.4	448.3	411.4	397.5	379.0	355.9	328.2	309.7	309.7
80°	392.9	365.1	342.0	337.4	323.5	318.9	323.5	300.4	272.7	249.6	258.8
82.5°	263.5	258.8	254.2	249.6	254.2	258.8	268.1	263.5	240.3	226.5	231.1
85°	157.1	166.4	175.6	184.9	203.4	180.3	147.9	124.8	110.9	101.7	97.1
87.5°	60.1	83.2	74.0	69.3	74.0	69.3	64.7	60.1	50.8	46.2	46.2
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14152.5	14152.5	14152.5	14152.5	14152.5	14152.5	14152.5	14152.5	14152.5	14152.5
2.5°	15303.4	15395.8	15474.4	15455.9	15294.2	15076.9	14989.1	14540.8	14448.3	14388.3
5°	15511.4	16047.6	16163.1	16093.8	15673.2	15141.6	14624.0	13967.7	13584.0	13570.2
7.5°	15127.8	15788.7	15996.7	16153.9	15594.6	14670.2	13782.8	12798.3	12557.9	12576.4
10°	14152.5	15206.3	15719.4	15881.2	15238.7	14439.1	13209.6	12211.3	11698.3	11689.0
12.5°	13611.8	14439.1	14582.4	14808.9	14619.4	13810.5	12876.9	11758.3	11259.2	11249.9
15°	13131.1	13676.5	13718.1	14037.0	14138.7	13593.3	12964.7	11772.2	11370.1	11328.5
17.5°	13551.7	13172.7	13015.5	13057.1	13357.6	13556.3	13473.1	12557.9	12146.6	11915.5
20°	13833.6	12987.8	12511.7	12557.9	12913.8	13639.5	14231.1	13695.0	13043.3	13071.0
22.5°	14587.0	13015.5	12271.4	12220.5	12784.4	14074.0	15086.2	15132.4	14503.8	14351.3
25°	15714.8	13334.4	12197.4	12183.6	12724.3	14540.8	16084.5	16833.3	16190.8	15908.9
27.5°	16620.7	13833.6	12428.5	12474.8	12913.8	14919.8	16935.0	17928.7	17438.8	17092.1
30°	17415.7	14351.3	12752.1	12539.5	13422.3	15118.5	17300.1	19176.6	18783.8	18497.2
32.5°	17743.8	15086.2	13265.1	12913.8	13842.9	15358.9	18058.1	20387.6	20050.2	19343.0
35°	18298.5	15497.5	13542.4	13514.7	14577.8	15936.6	18414.0	21187.2	21048.5	20420.0
37.5°	18742.2	15913.5	14526.9	14221.9	15585.4	16907.2	18987.1	22291.9	21972.9	21677.1
40°	19084.2	16657.7	15446.7	15848.8	16824.0	17790.0	19514.0	22361.2	23281.0	22421.3
42.5°	18769.9	17323.2	16958.1	17919.5	18843.9	18797.6	19574.1	22897.3	23586.0	23137.7
45°	18691.3	18451.0	19347.7	20221.2	20433.8	19634.2	19144.3	22305.7	23493.6	23294.8
47.5°	18501.8	19560.3	21122.5	22546.1	22222.5	20193.5	18631.2	22199.4	23549.0	23193.1
50°	18437.1	19800.6	22435.1	23821.7	23627.6	20678.8	18390.9	21515.4	23156.2	23123.8
52.5°	18432.5	20295.2	22980.5	24515.0	24635.2	21446.0	18719.1	21862.0	23461.2	23733.9
55°	18640.5	20138.0	22911.2	24131.4	24085.2	21104.0	18756.0	22093.1	23835.6	24103.7
57.5°	17582.1	18039.6	18908.6	19874.6	19625.0	17480.4	16750.1	20424.6	21875.9	21681.8
60°	15183.2	13750.4	12770.6	12724.3	12239.0	11568.8	13708.8	18229.1	18229.1	18039.6
62.5°	13297.5	9026.7	7755.7	7395.2	7741.8	8513.7	13223.5	17730.0	17226.2	17008.9
65°	11628.9	6891.4	5606.5	5504.8	6105.6	7270.4	11957.1	15104.7	14217.2	13496.2
67.5°	7483.0	5047.2	4169.0	3988.8	4714.4	5338.4	7959.1	9290.2	8730.9	8449.0
70°	4825.4	3286.2	2320.2	2177.0	2458.9	3290.9	5084.2	5417.0	4603.5	4414.0
72.5°	2283.3	1419.0	813.5	670.2	753.4	1257.2	2010.6	2163.1	1798.0	1645.4
75°	725.7	522.3	332.8	286.6	272.7	323.5	462.2	355.9	258.8	254.2
77.5°	323.5	309.7	263.5	221.9	194.1	161.8	134.0	110.9	115.5	120.2
80°	268.1	245.0	217.2	194.1	161.8	124.8	97.1	74.0	74.0	78.6
82.5°	235.7	212.6	189.5	161.8	138.7	101.7	74.0	50.8	46.2	46.2
85°	101.7	120.2	129.4	138.7	110.9	83.2	50.8	32.4	27.7	27.7
87.5°	41.6	37.0	32.4	27.7	23.1	23.1	18.5	13.9	9.2	9.2
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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