

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: P534190

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
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-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT 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 II - 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



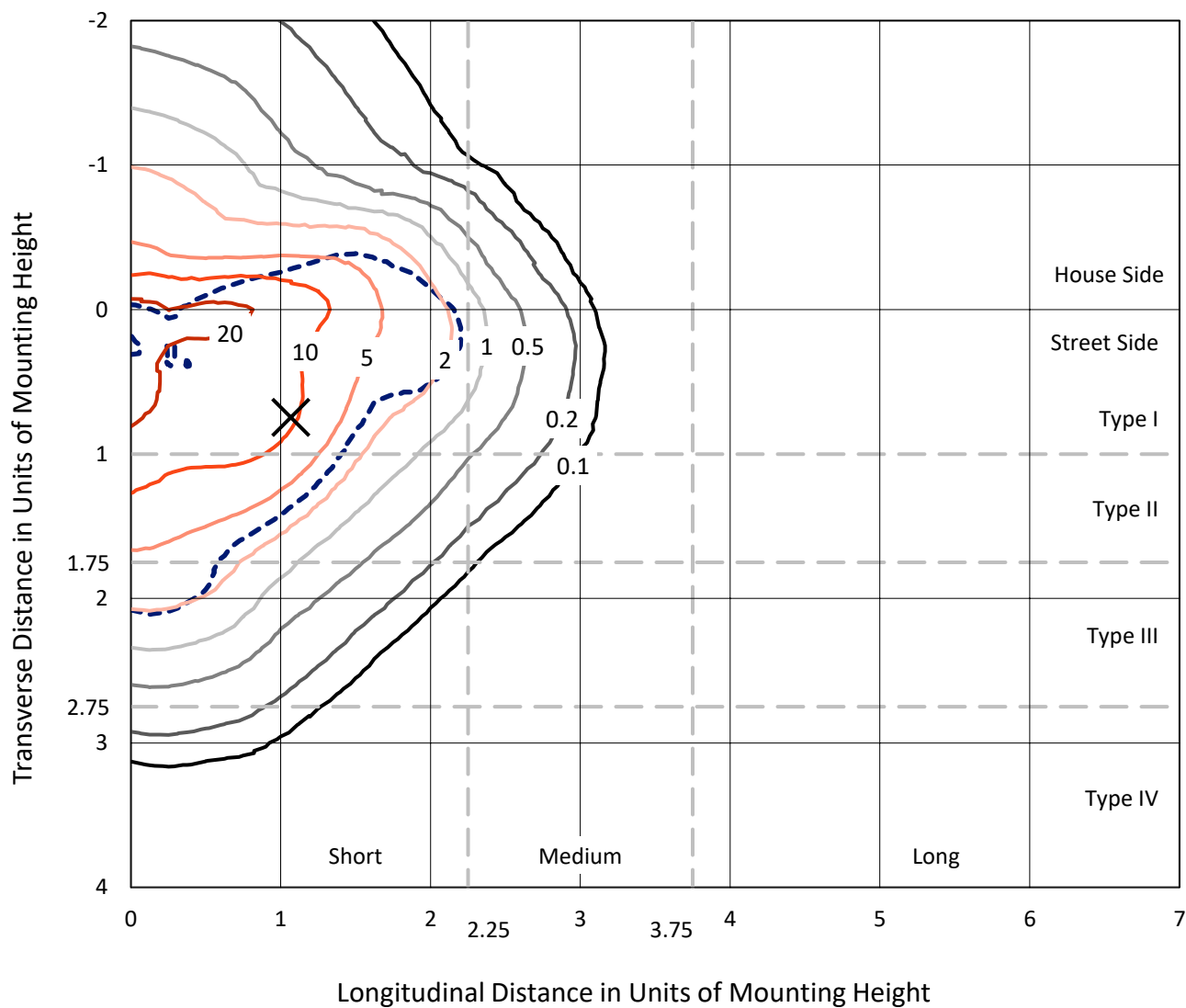
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

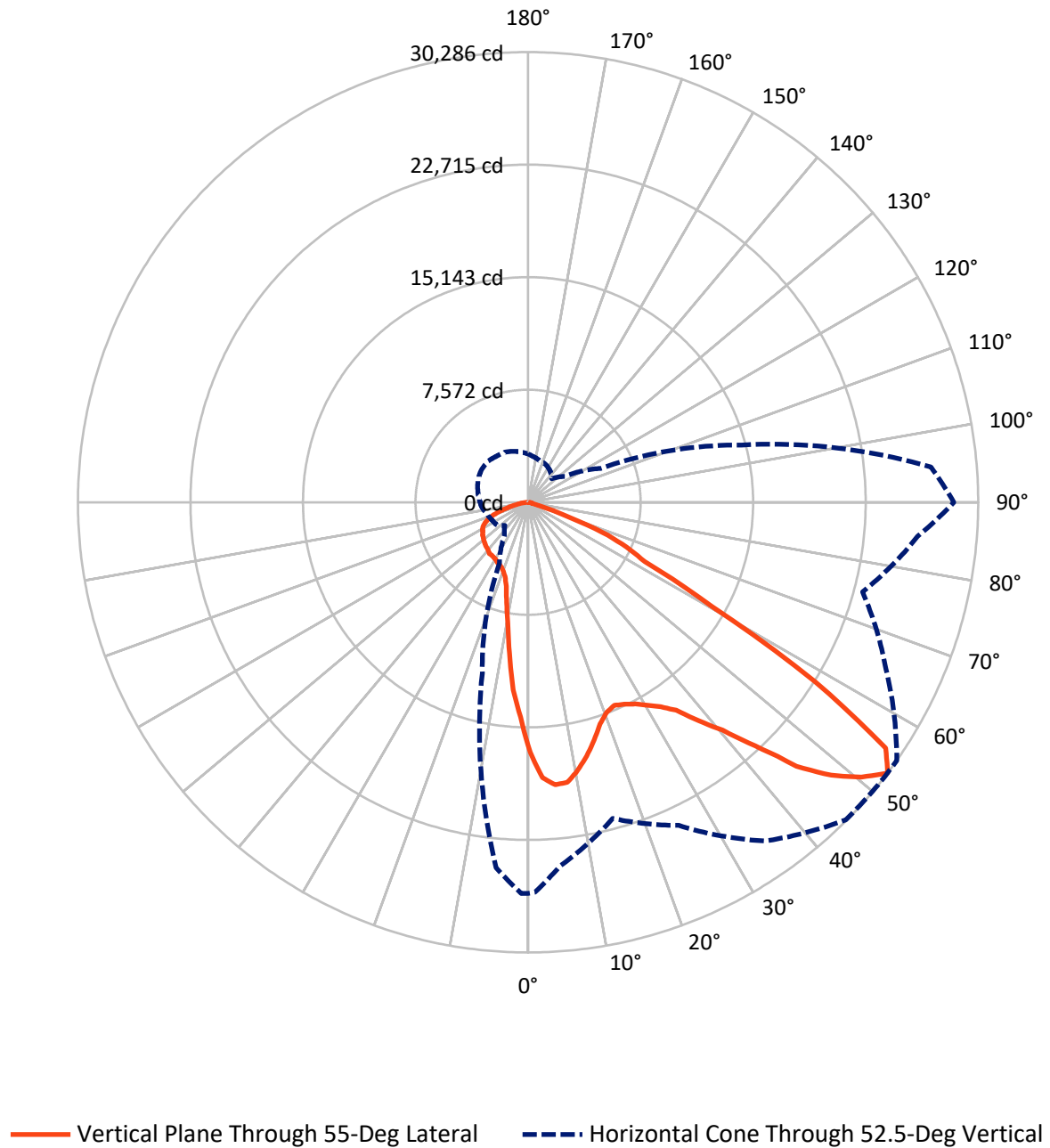
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11506.4	0.0	11506.4
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	26212.7	0.0	26212.7
	% Fixture	69.5	0.0	69.5
Total	Lumens	37719.0	0.0	37719.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1285.5	3.4
10°-20°	2771.6	7.3
20°-30°	4202.6	11.1
30°-40°	6072.1	16.1
40°-50°	8114.0	21.5
50°-60°	9057.1	24.0
60°-70°	4968.2	13.2
70°-80°	1074.1	2.8
80°-90°	173.8	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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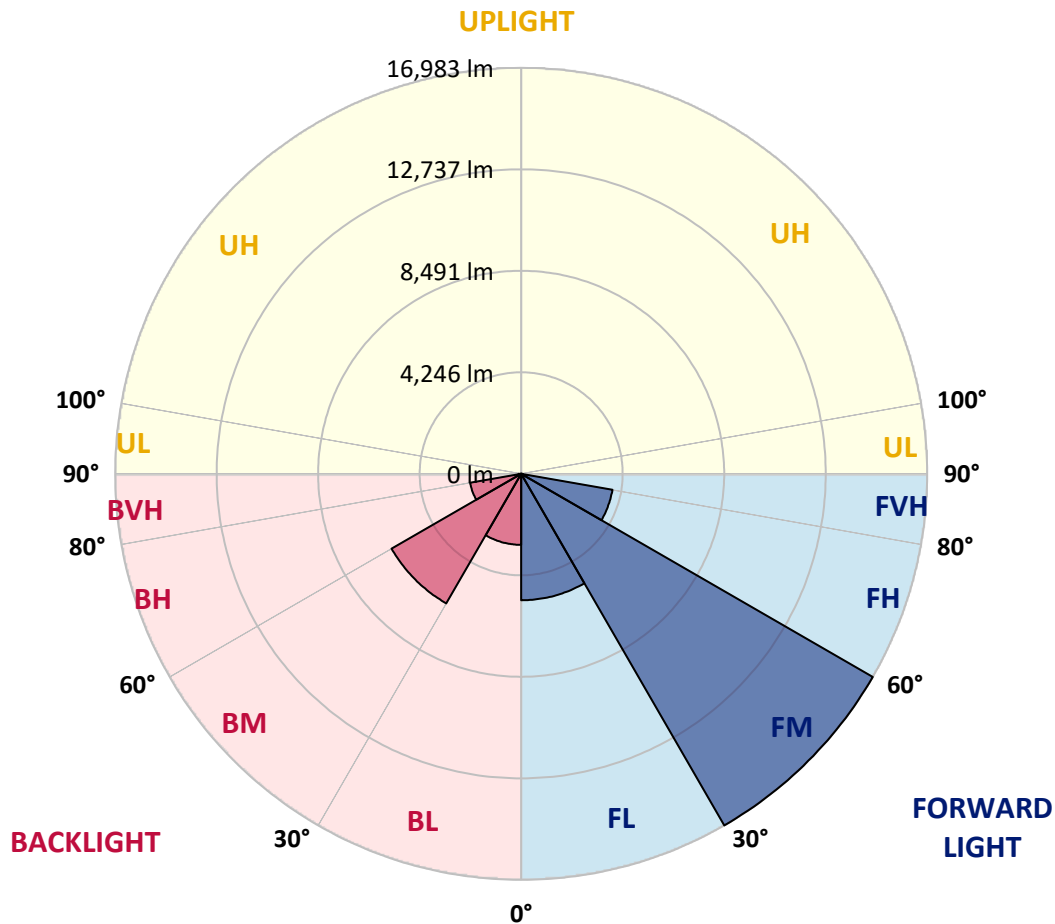
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5288.9	14.0			
FM	(30°-60°)	16982.9	45.0			
FH	(60°-80°)	3876.6	10.3			G2/5000
FVH	(80°-90°)	64.3	0.2			G1/100
BL	(0°-30°)	2970.8	7.9	B4/5000		
BM	(30°-60°)	6260.4	16.6	B4/8500		
BH	(60°-80°)	2165.8	5.7	B3/2500		G3/2500
BVH	(80°-90°)	109.4	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16825.6	16825.6	16825.6	16825.6	16825.6	16825.6	16825.6	16825.6	16825.6	16825.6	16825.6
2.5°	17657.2	17558.1	17646.2	18064.8	18307.1	18472.4	18577.0	18560.5	18163.9	17778.4	17778.4
5°	17139.5	17012.8	17194.6	18141.9	19094.7	19177.3	19315.0	19089.2	18505.4	17800.4	16919.2
7.5°	15641.5	15735.1	16038.0	17282.7	18521.9	19144.3	19309.5	19023.1	18075.8	16759.5	15465.2
10°	14347.2	14567.5	15267.0	16610.8	17750.9	18560.5	18742.2	18340.2	17591.1	15977.4	14820.8
12.5°	13901.1	13763.4	14540.0	15883.8	16974.3	17409.4	17492.0	17519.5	17012.8	15580.9	14170.9
15°	13846.0	13934.1	14540.0	15558.9	16230.8	16252.8	16390.5	16605.3	16671.4	15850.8	14473.9
17.5°	14639.1	14534.4	15156.8	15966.4	15647.0	15327.5	15360.6	15669.0	16214.3	16082.1	15426.7
20°	15812.2	16049.0	16539.2	16456.6	15597.4	14787.8	14793.3	15085.2	16159.2	17040.4	16754.0
22.5°	17761.9	17993.2	18356.7	17359.8	15597.4	14628.1	14440.8	14837.4	16511.7	18180.5	18252.0
25°	19540.8	19964.9	20064.0	18890.9	16379.5	14776.8	14655.6	15046.7	16864.1	19293.0	19970.4
27.5°	21160.0	21314.3	21749.3	19876.8	16814.6	14875.9	14864.9	15366.1	17310.3	19849.2	21507.0
30°	22437.8	22421.3	22669.1	20499.1	17508.5	15432.2	14897.9	15845.2	17894.1	20769.0	22928.0
32.5°	23308.0	23495.2	24018.5	21363.8	17800.4	15960.9	15542.3	16407.0	18604.5	21204.1	23930.3
35°	24839.1	25164.0	24503.1	21843.0	18725.7	16484.1	15994.0	17172.6	18957.0	21677.8	25158.5
37.5°	26282.1	26034.2	25362.3	22101.8	19326.0	17453.5	16996.3	18654.1	20053.0	22707.7	25973.6
40°	27207.3	27201.8	26006.7	22311.1	19750.1	18935.0	18907.4	20157.7	21396.9	23357.6	26887.9
42.5°	27609.4	27994.9	26271.1	22289.1	20642.3	20730.5	21286.7	22404.7	22349.7	23489.7	26865.9
44°	28160.1	28391.5	26728.2	22338.7	21237.1	21942.1	23252.9	23963.4	23181.3	23418.1	26838.3
45°	28138.1	28154.6	26078.3	22404.7	21743.8	22955.5	24128.6	25329.3	23913.8	23263.9	27201.8
47.5°	27493.7	27306.5	25527.5	21914.6	23324.5	25632.2	26717.2	27444.2	24817.1	22933.5	26750.2
50°	26221.5	26006.7	24189.2	21705.3	23655.0	27295.5	28793.5	29057.9	25637.7	22608.5	26304.1
52.5°	26309.6	26249.0	24569.2	22019.2	23985.4	27818.7	30220.0	30286.1	26568.5	23291.5	26309.6
55°	27884.8	27675.5	25659.7	22410.3	23743.1	27207.3	29311.2	29195.6	26254.5	22878.4	26794.3
57.5°	25516.5	25654.2	24150.6	20862.6	20780.0	22118.4	23043.6	22757.2	21909.1	20647.8	24927.2
60°	20587.3	20978.3	21121.5	17447.9	15680.0	14991.6	14716.2	14209.5	14352.7	16963.3	21898.1
62.5°	17657.2	17635.2	18532.9	15817.7	10271.6	8834.1	8701.9	8817.6	10469.9	16698.9	21446.4
65°	14000.2	14374.7	14650.1	13405.4	8129.2	6559.5	6554.0	7286.5	9059.9	13956.2	17315.8
67.5°	8889.2	9379.4	9720.8	8575.3	5436.0	4670.4	4543.7	5424.9	6278.6	9153.6	10425.8
70°	5011.9	5243.2	5397.4	4945.8	3458.7	2423.3	2280.1	2489.4	3794.7	5926.1	6179.5
72.5°	1933.2	2037.8	2247.1	2263.6	1305.3	782.1	633.4	760.0	1597.2	2346.2	2236.1
75°	297.4	319.4	451.6	539.7	374.5	286.4	302.9	313.9	446.1	605.8	506.7
77.5°	143.2	143.2	137.7	159.7	187.3	203.8	220.3	242.3	264.4	291.9	280.9
80°	93.6	93.6	93.6	110.2	137.7	165.2	187.3	198.3	209.3	231.3	220.3
82.5°	60.6	60.6	60.6	82.6	110.2	137.7	148.7	176.2	198.3	231.3	214.8
85°	33.0	33.0	33.0	55.1	82.6	115.7	110.2	88.1	49.6	5.5	11.0
87.5°	11.0	11.0	11.0	11.0	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°	16825.6	16825.6	16825.6	16825.6	16825.6	16825.6	16825.6	16825.6	16825.6	16825.6	16825.6
2.5°	17315.8	17062.4	17040.4	16522.7	16060.0	15834.2	15652.5	15145.8	15255.9	14964.0	14958.5
5°	16478.6	15960.9	15123.8	14435.3	13746.9	13609.2	13008.9	12485.6	12502.2	12127.6	12193.7
7.5°	14975.1	14617.1	13598.2	12518.7	11604.4	10954.5	10387.3	10045.8	9610.7	9462.0	9384.9
10°	14022.2	13581.6	12436.1	11081.2	10056.8	9709.8	9164.6	8861.7	8415.5	8195.2	8041.0
12.5°	13603.7	12959.3	11527.3	10150.4	9467.5	9109.5	8646.9	8096.1	7567.4	7363.6	7082.7
15°	13647.7	12876.7	11263.0	9775.9	8955.3	8261.3	7848.3	7236.9	6697.2	6339.2	6135.4
17.5°	14314.1	13377.9	11384.1	9489.5	8310.9	7440.7	6631.1	5970.2	5540.6	5270.7	5204.6
20°	15889.3	14617.1	11587.9	9026.9	7666.5	6581.5	5584.7	4896.2	4565.8	4560.3	4565.8
22.5°	17200.1	15938.9	12001.0	8751.5	7022.1	5480.0	4488.7	4268.4	4202.3	4340.0	4356.5
25°	18968.0	17425.9	12711.4	8608.3	6427.3	4670.4	4059.1	3976.5	3970.9	4147.2	4152.7
27.5°	20780.0	18725.7	13135.5	8189.7	5821.5	4251.8	3800.2	3783.7	3871.8	4059.1	4042.5
30°	22013.7	19816.2	13901.1	7688.6	5105.5	3882.8	3695.6	3717.6	3838.8	3982.0	4004.0
32.5°	23451.2	20890.2	14099.4	7413.2	4664.9	3574.4	3442.2	3491.8	3646.0	3871.8	3993.0
35°	25097.9	21650.2	14402.3	7038.7	4499.7	3337.6	3271.5	3326.6	3513.8	3662.5	3794.7
37.5°	26315.1	22994.1	14457.3	6746.8	4317.9	3205.4	3100.8	3282.5	3392.7	3601.9	3668.0
40°	27218.4	23968.9	14600.5	6565.0	4174.7	3034.7	3034.7	3155.8	3304.5	3497.3	3629.5
42.5°	27796.6	24679.4	14705.2	6399.8	3899.4	2985.1	2957.6	3078.7	3277.0	3464.3	3524.8
44°	28149.1	24982.3	14600.5	6245.6	3822.2	2924.5	2924.5	3029.2	3183.4	3403.7	3475.3
45°	28237.3	25362.3	14369.2	6240.1	3728.6	2852.9	2841.9	3040.2	3144.8	3414.7	3458.7
47.5°	28578.7	25830.5	14396.8	6063.8	3502.8	2682.2	2874.9	2963.1	3056.7	3293.5	3442.2
50°	28567.7	26122.4	14336.2	5805.0	3337.6	2489.4	2808.9	2908.0	3001.6	3244.0	3304.5
52.5°	28644.8	27212.8	14892.4	5391.9	3040.2	2241.6	2588.6	2808.9	2924.5	3128.3	3255.0
55°	28606.3	27835.2	15443.2	5083.5	2621.6	2092.9	2401.3	2660.2	2825.4	3040.2	3100.8
57.5°	26127.9	24602.3	14292.1	4505.2	2170.0	1916.6	2136.9	2505.9	2715.2	2935.5	3012.6
60°	21347.3	18962.5	11786.2	3315.6	1784.4	1762.4	1988.2	2456.4	2544.5	2737.3	2869.4
62.5°	19728.1	16632.8	9346.3	2533.5	1525.6	1613.7	1834.0	2219.5	2357.2	2594.1	2715.2
65°	15437.7	11048.2	5788.4	1712.9	1343.8	1448.5	1657.8	1944.2	2170.0	2390.3	2533.5
67.5°	9142.5	6036.3	2863.9	1200.6	1173.1	1283.3	1498.1	1712.9	1971.7	2214.0	2285.6
70°	4978.8	2968.6	1222.7	914.3	996.9	1096.0	1305.3	1454.0	1701.8	1889.1	2010.3
72.5°	1597.2	903.2	611.3	677.4	760.0	875.7	1002.4	1184.1	1360.4	1470.5	1569.7
75°	385.5	380.0	435.1	473.7	550.8	638.9	743.5	837.1	974.8	1079.5	1167.6
77.5°	269.9	291.9	336.0	391.0	418.6	451.6	517.7	589.3	649.9	727.0	782.1
80°	209.3	225.8	258.9	286.4	313.9	341.5	374.5	402.1	440.6	490.2	517.7
82.5°	198.3	209.3	242.3	258.9	247.8	242.3	264.4	275.4	280.9	297.4	313.9
85°	16.5	0.0	11.0	38.6	93.6	137.7	148.7	148.7	143.2	154.2	154.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	22.0	16.5
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°	16825.6	16825.6	16825.6	16825.6	16825.6	16825.6	16825.6	16825.6	16825.6	16825.6	16825.6
2.5°	14892.4	14705.2	14776.8	14864.9	14738.2	14446.3	14523.4	14490.4	14787.8	14765.8	15063.2
5°	12485.6	12193.7	12226.8	12656.4	12518.7	12667.4	12370.0	12331.4	12386.5	12414.0	12463.6
7.5°	9555.6	9517.1	9847.5	10211.0	10381.7	10205.5	9913.6	9847.5	9786.9	9665.8	9941.1
10°	7798.7	7809.7	7787.7	8063.1	8255.8	8217.3	8041.0	8019.0	7903.3	7859.3	8013.5
12.5°	6961.6	6812.9	6741.3	6653.1	6801.8	6901.0	6823.9	6768.8	6774.3	6829.4	6851.4
15°	6151.9	6058.3	5904.1	5805.0	5876.6	5827.0	5799.5	5909.6	5882.1	5871.1	6003.2
17.5°	5243.2	5320.3	5309.3	5199.1	5292.8	5254.2	5248.7	5171.6	5067.0	4989.8	5033.9
20°	4642.9	4786.1	4896.2	4901.7	4951.3	4945.8	4863.2	4626.3	4549.2	4532.7	4543.7
22.5°	4428.1	4505.2	4637.4	4824.6	4824.6	4736.5	4637.4	4362.0	4290.4	4213.3	4180.2
25°	4257.3	4406.0	4576.8	4598.8	4686.9	4604.3	4444.6	4306.9	4158.2	4053.6	4053.6
27.5°	4169.2	4334.4	4461.1	4499.7	4620.8	4554.8	4389.5	4213.3	4037.0	4031.5	3937.9
30°	4130.7	4284.9	4367.5	4461.1	4516.2	4411.6	4362.0	4174.7	3998.5	3954.4	3800.2
32.5°	4015.0	4235.3	4389.5	4367.5	4411.6	4367.5	4295.9	4141.7	3943.4	3844.3	3827.8
35°	3882.8	4103.1	4268.4	4384.0	4411.6	4317.9	4273.9	4064.6	3794.7	3745.1	3574.4
37.5°	3811.2	3943.4	4147.2	4334.4	4373.0	4323.4	4174.7	3959.9	3690.1	3635.0	3486.3
40°	3723.1	3893.8	4053.6	4207.8	4323.4	4202.3	4031.5	3822.2	3701.1	3535.9	3491.8
42.5°	3657.0	3849.8	3982.0	4152.7	4284.9	4125.2	3926.9	3783.7	3613.0	3502.8	3376.1
44°	3635.0	3811.2	3899.4	4108.6	4218.8	4097.6	3932.4	3783.7	3585.4	3486.3	3376.1
45°	3557.9	3800.2	3893.8	4081.1	4174.7	4075.6	3866.3	3717.6	3574.4	3453.2	3337.6
47.5°	3480.8	3646.0	3805.7	3954.4	4020.5	3987.5	3811.2	3629.5	3458.7	3387.1	3277.0
50°	3458.7	3624.0	3772.7	3910.4	3987.5	3921.4	3761.7	3585.4	3387.1	3271.5	3177.9
52.5°	3348.6	3552.4	3717.6	3761.7	3860.8	3822.2	3701.1	3508.3	3321.1	3221.9	3144.8
55°	3188.9	3403.7	3629.5	3684.6	3827.8	3767.2	3585.4	3403.7	3244.0	3095.2	2996.1
57.5°	3128.3	3337.6	3557.9	3629.5	3717.6	3618.5	3574.4	3381.6	3128.3	3051.2	2897.0
60°	2974.1	3238.4	3420.2	3585.4	3590.9	3563.4	3486.3	3266.0	3056.7	2913.5	2803.3
62.5°	2852.9	3100.8	3244.0	3398.2	3491.8	3414.7	3337.6	3133.8	2908.0	2748.3	2621.6
65°	2676.7	2902.5	3023.6	3117.3	3221.9	3210.9	3078.7	2930.0	2693.2	2566.5	2445.4
67.5°	2406.8	2605.1	2770.3	2858.4	2924.5	2908.0	2808.9	2704.2	2461.9	2335.2	2247.1
70°	2081.9	2285.6	2390.3	2439.8	2505.9	2539.0	2461.9	2412.3	2197.5	2032.3	1949.7
72.5°	1674.3	1806.5	1960.7	2004.8	2032.3	2054.3	2054.3	2010.3	1790.0	1723.9	1580.7
75°	1233.7	1338.3	1454.0	1454.0	1503.6	1509.1	1520.1	1492.5	1327.3	1239.2	1206.2
77.5°	837.1	914.3	1007.9	1046.4	1079.5	1074.0	1068.5	991.4	903.2	864.7	831.6
80°	545.2	622.4	666.4	716.0	749.0	743.5	754.5	699.5	660.9	594.8	605.8
82.5°	324.9	385.5	429.6	490.2	490.2	506.7	506.7	490.2	451.6	418.6	418.6
85°	154.2	203.8	231.3	269.9	291.9	297.4	264.4	225.8	187.3	170.7	187.3
87.5°	27.5	38.6	55.1	49.6	60.6	55.1	55.1	55.1	55.1	44.1	49.6
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°	16825.6	16825.6	16825.6	16825.6	16825.6	16825.6	16825.6	16825.6	16825.6	16825.6
2.5°	14953.0	15228.4	15421.2	15740.6	16291.4	16732.0	17183.6	17519.5	17558.1	17657.2
5°	12645.4	12794.1	13284.2	13923.1	14374.7	15118.2	15597.4	16467.6	16792.5	17139.5
7.5°	9875.1	10117.4	10772.8	11202.4	12193.7	13124.5	14088.3	15162.3	15591.9	15641.5
10°	8327.4	8679.9	9126.0	9814.5	10354.2	11389.6	12590.3	13785.4	14264.6	14347.2
12.5°	7314.0	7765.7	8360.5	8856.2	9373.9	10277.1	11428.2	12904.2	13526.6	13901.1
15°	6339.2	6807.3	7462.7	8151.2	8608.3	9687.8	11042.7	12705.9	13515.5	13846.0
17.5°	5336.8	5771.9	6311.7	7055.2	7974.9	9186.6	10982.1	13366.8	14253.6	14639.1
20°	4477.6	4720.0	5347.8	6113.4	7264.5	8674.4	11004.1	14341.7	15641.5	15812.2
22.5°	4141.7	4196.8	4444.6	5149.6	6410.8	8151.2	11395.1	15724.1	17200.1	17761.9
25°	3882.8	3871.8	3937.9	4411.6	5788.4	7947.4	11780.7	16996.3	18929.5	19540.8
27.5°	3739.6	3629.5	3635.0	4081.1	5347.8	7617.0	12276.3	18455.8	20890.2	21160.0
30°	3668.0	3646.0	3579.9	3761.7	4868.7	7121.3	12359.0	19893.3	22046.8	22437.8
32.5°	3624.0	3409.2	3326.6	3392.7	4417.1	6581.5	12667.4	20840.6	23478.7	23308.0
35°	3403.7	3210.9	3155.8	3221.9	4097.6	6278.6	12463.6	21666.7	24552.7	24839.1
37.5°	3321.1	3150.3	3040.2	2985.1	3800.2	6025.3	12359.0	22939.0	25593.6	26282.1
40°	3244.0	3062.2	2930.0	2874.9	3568.9	5689.3	12325.9	23919.3	26794.3	27207.3
42.5°	3155.8	3040.2	2891.5	2792.3	3288.0	5353.3	11945.9	24222.2	27163.3	27609.4
44°	3128.3	2952.1	2797.8	2764.8	3177.9	5182.6	11868.8	24497.6	27482.7	28160.1
45°	3100.8	2935.5	2759.3	2715.2	3139.3	5089.0	11764.1	24563.7	28011.4	28138.1
47.5°	3023.6	2919.0	2748.3	2627.1	3056.7	4885.2	11450.2	24189.2	27471.7	27493.7
50°	2963.1	2841.9	2665.7	2428.8	2946.5	4714.5	11593.4	24051.5	26171.9	26221.5
52.5°	2897.0	2715.2	2616.1	2208.5	2764.8	4571.3	11896.3	24673.9	26320.6	26309.6
55°	2819.9	2621.6	2379.3	2021.3	2461.9	4389.5	12628.8	25902.0	27697.5	27884.8
57.5°	2698.7	2528.0	2181.0	1856.0	2114.9	4042.5	12392.0	23550.3	25483.5	25516.5
60°	2539.0	2379.3	1977.2	1729.4	1734.9	3188.9	11081.2	18351.2	20108.1	20587.3
62.5°	2384.8	2296.7	1806.5	1547.6	1476.0	2539.0	9368.4	15250.4	17260.7	17657.2
65°	2203.0	1988.2	1657.8	1409.9	1266.7	1778.9	6636.6	11395.1	13466.0	14000.2
67.5°	1971.7	1740.4	1459.5	1239.2	1085.0	1189.6	3425.7	6476.9	8575.3	8889.2
70°	1723.9	1509.1	1228.2	1046.4	875.7	820.6	1509.1	3089.7	4686.9	5011.9
72.5°	1415.4	1217.2	980.3	826.1	655.4	567.3	506.7	826.1	1663.3	1933.2
75°	1024.4	886.7	738.0	589.3	462.6	363.5	297.4	247.8	275.4	297.4
77.5°	754.5	644.4	545.2	418.6	324.9	258.9	203.8	154.2	148.7	143.2
80°	589.3	523.2	435.1	336.0	253.3	192.8	143.2	104.6	93.6	93.6
82.5°	462.6	429.6	358.0	275.4	209.3	154.2	104.6	71.6	60.6	60.6
85°	176.2	176.2	258.9	225.8	159.7	110.2	71.6	38.6	33.0	33.0
87.5°	44.1	44.1	44.1	44.1	38.6	33.0	33.0	16.5	11.0	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)