

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: P648324

Luminaire Tested: **GALN-SA3B-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648324
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-835-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7353.2 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

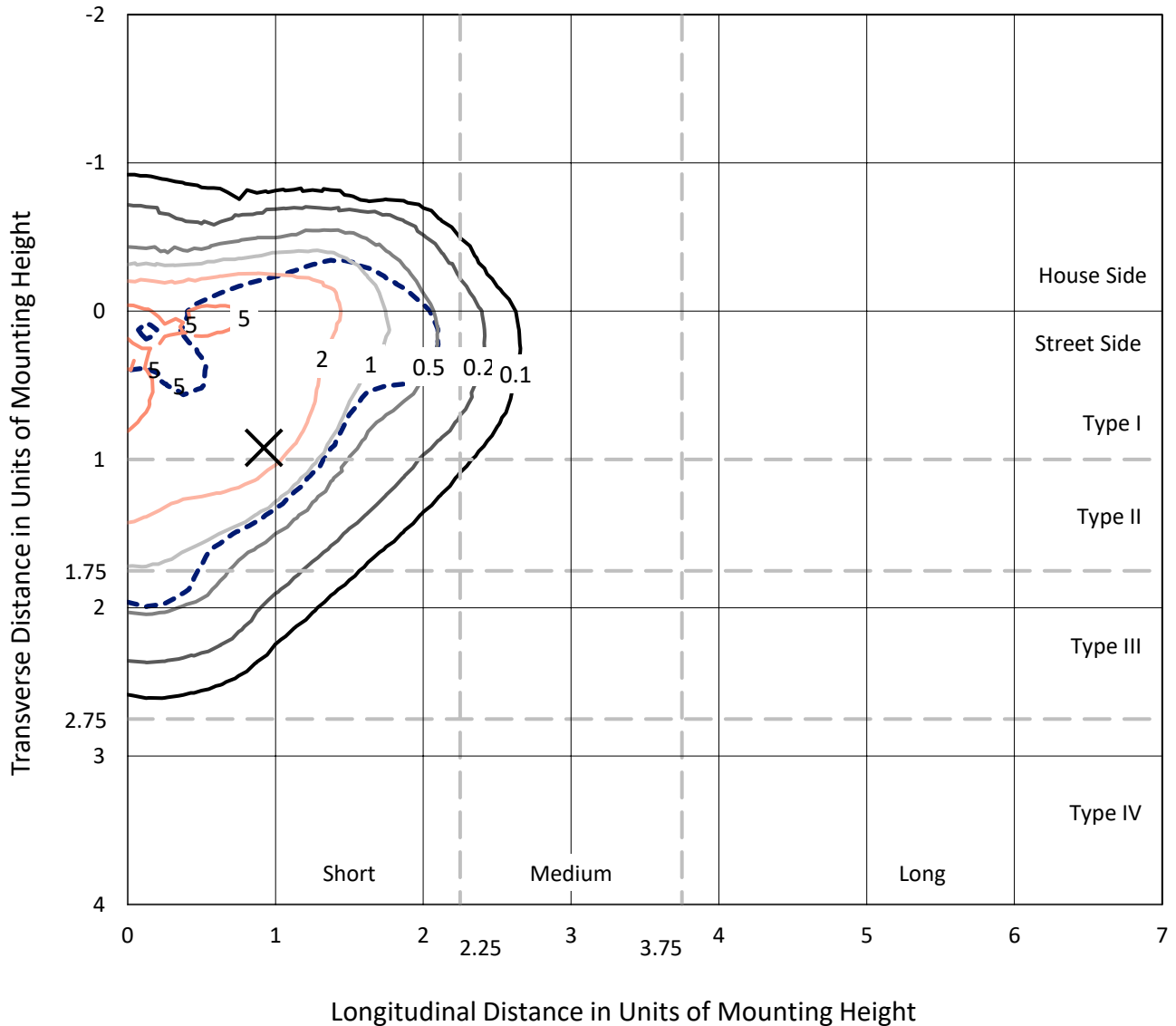
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

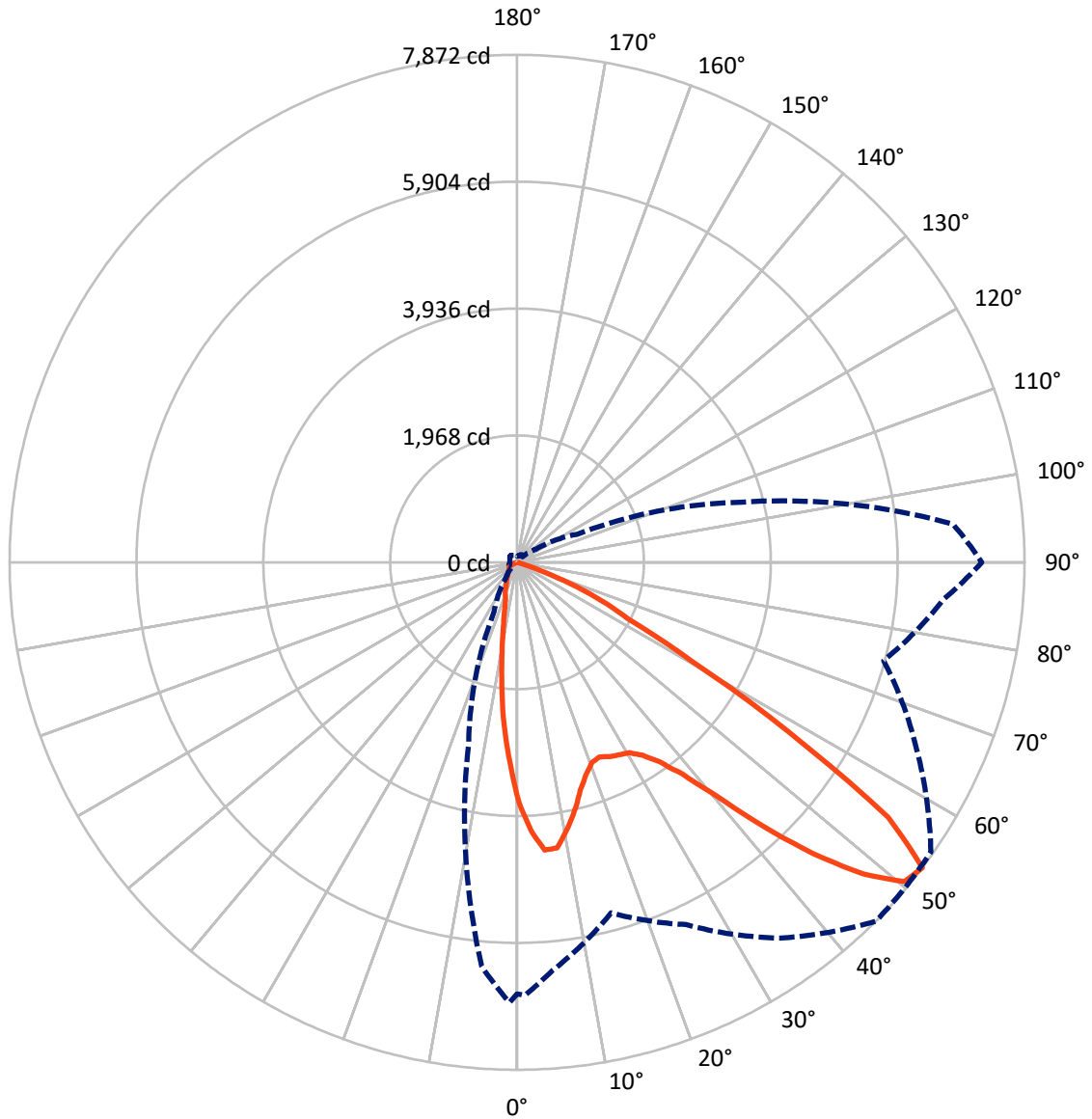
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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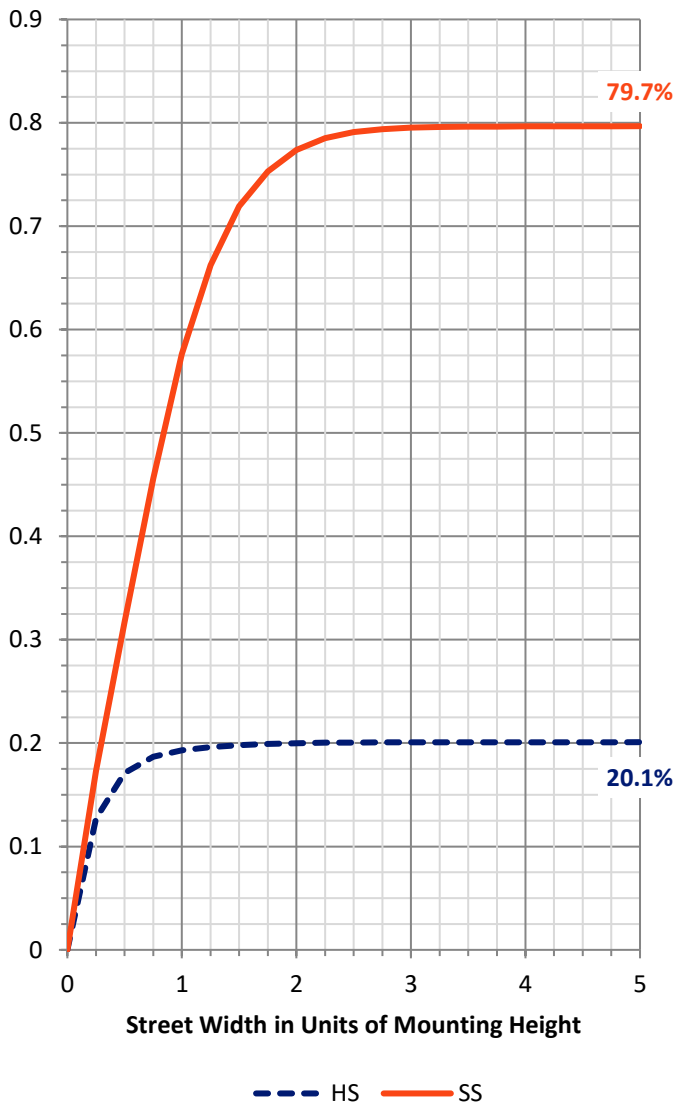
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1492.3	0.0	1492.3
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	5860.8	0.0	5860.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	7353.2	0.0	7353.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.9	3.7
10°-20°	536.5	7.3
20°-30°	816.4	11.1
30°-40°	1220.2	16.6
40°-50°	1737.7	23.6
50°-60°	1868.0	25.4
60°-70°	827.7	11.3
70°-80°	67.0	0.9
80°-90°	7.8	0.1
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°	7353.2	100.0
0°-180°	7353.2	100.0



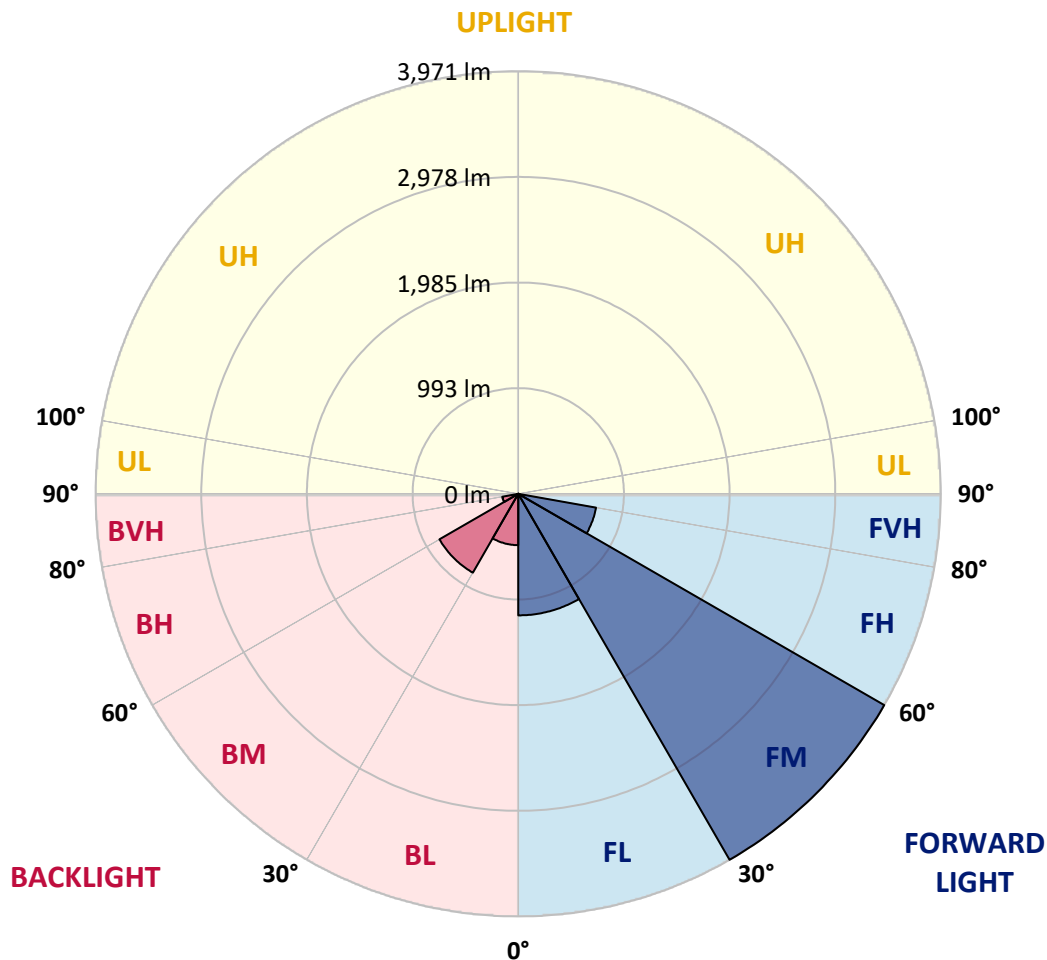
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1142.1	15.5			
FM (30°-60°)	3970.9	54.0			
FH (60°-80°)	742.0	10.1			G1/1800
FVH (80°-90°)	5.8	0.1			G0/10
BL (0°-30°)	482.7	6.6	B1/500		
BM (30°-60°)	854.9	11.6	B1/1000		
BH (60°-80°)	152.7	2.1	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4
2.5°	3945.3	3956.9	4020.5	4100.1	4142.0	4237.4	4171.0	4188.3	4152.2	4024.9	3925.1
5°	3825.3	3823.9	3904.8	4101.5	4288.1	4477.5	4483.3	4382.1	4204.2	4009.0	3729.8
7.5°	3463.8	3520.1	3604.0	3917.8	4263.5	4405.2	4473.2	4354.6	4081.3	3802.2	3499.9
10°	3190.4	3219.3	3361.0	3739.9	3993.1	4182.5	4224.4	4156.5	3946.8	3598.2	3259.8
12.5°	3032.7	3047.2	3213.5	3531.7	3799.3	3939.5	3959.8	3991.6	3841.2	3514.3	3108.0
15°	3034.2	3045.8	3270.0	3536.0	3641.7	3604.0	3670.5	3669.1	3734.2	3498.4	3235.2
17.5°	3252.6	3265.6	3468.1	3599.7	3553.4	3465.2	3460.9	3527.3	3664.8	3696.5	3427.6
20°	3628.6	3659.0	3808.0	3800.7	3540.4	3362.5	3313.3	3363.9	3683.5	3864.3	3815.2
22.5°	4134.8	4176.8	4280.8	4081.3	3599.7	3293.1	3277.2	3375.5	3808.0	4238.9	4254.8
25°	4722.0	4792.8	4843.4	4587.4	3810.9	3413.1	3337.9	3507.1	3975.7	4645.3	4814.5
27.5°	5111.0	5184.7	5173.2	4807.3	3952.6	3445.0	3381.3	3538.9	4121.8	4742.2	5106.6
30°	5414.7	5459.5	5540.5	4925.9	4094.3	3534.6	3426.1	3673.4	4169.5	4910.0	5459.5
32.5°	5769.0	5799.4	5805.2	5135.5	4312.7	3647.4	3565.0	3841.2	4380.7	5070.5	5771.9
35°	6126.3	6171.1	6077.1	5394.5	4447.2	3857.1	3796.4	4131.9	4549.9	5236.8	6116.1
37.5°	6513.9	6537.0	6320.1	5501.4	4639.5	4198.4	4165.2	4445.7	4843.4	5537.6	6498.0
40°	6839.3	6861.0	6578.9	5633.1	4842.0	4675.7	4761.0	5044.5	5242.6	5732.9	6688.9
42.5°	7020.0	7070.6	6665.7	5560.8	5248.4	5216.6	5595.5	5695.3	5705.4	5787.9	6859.5
45°	7069.2	7046.1	6522.5	5620.1	5604.2	6106.0	6450.2	6581.8	6165.3	5889.1	6902.8
47.5°	6842.2	6872.5	6311.4	5568.0	6071.3	6779.9	7225.4	7469.8	6508.1	5800.9	6795.8
50°	6658.5	6619.4	6243.4	5530.4	6197.1	7098.1	7785.1	7840.0	6823.3	5909.3	6678.7
52.5°	6694.6	6719.2	6351.9	5630.2	6200.0	7116.9	7871.8	7834.2	6833.5	5884.7	6636.8
55°	6771.2	6662.8	6305.6	5410.4	5785.0	6591.9	6986.8	6928.9	6307.0	5623.0	6534.1
57.5°	5842.7	6010.5	5798.0	4830.4	4748.0	4966.3	4959.1	5137.0	4704.6	4839.1	5948.4
60°	4742.2	4771.1	4850.7	4131.9	3285.9	3210.6	3106.5	2993.7	3165.8	4137.7	5410.4
62.5°	4171.0	4136.2	4419.7	3758.8	2319.8	1942.3	1924.9	1994.4	2442.7	3946.8	5074.9
65°	3031.3	3074.7	3280.1	2917.1	1741.2	1482.4	1456.4	1661.8	1977.0	3162.9	3873.0
67.5°	1851.2	1935.0	1953.9	1799.1	1181.5	938.6	901.0	1087.6	1427.4	2046.4	2270.6
70°	854.7	956.0	1051.4	982.0	684.1	386.2	364.5	457.0	720.2	1177.2	1204.7
72.5°	258.9	260.3	364.5	380.4	221.3	86.8	76.7	101.2	244.5	389.1	409.3
75°	18.8	20.3	49.2	56.4	42.0	21.7	23.2	27.5	52.1	86.8	65.1
77.5°	1.4	1.4	1.4	7.2	13.0	14.5	18.8	21.7	27.5	31.8	28.9
80°	1.4	0.0	1.4	5.8	10.1	14.5	17.4	20.3	21.7	24.6	21.7
82.5°	0.0	0.0	0.0	4.3	10.1	14.5	15.9	21.7	24.6	28.9	24.6
85°	0.0	0.0	0.0	4.3	10.1	15.9	14.5	7.2	0.0	0.0	0.0
87.5°	0.0	0.0	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°	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4
2.5°	3942.4	3886.0	3757.3	3692.2	3538.9	3517.2	3366.8	3342.2	3291.7	3264.2	3197.6
5°	3606.9	3538.9	3329.2	3152.8	2947.4	2804.2	2694.3	2594.5	2536.7	2483.2	2507.8
7.5°	3333.5	3135.4	2902.6	2607.5	2370.4	2217.1	2049.3	1911.9	1831.0	1776.0	1789.0
10°	3047.2	2918.5	2594.5	2263.3	1977.0	1868.6	1736.9	1631.4	1517.1	1418.7	1372.4
12.5°	2957.5	2766.7	2360.3	2023.3	1806.4	1700.8	1550.3	1428.9	1282.8	1162.8	1120.9
15°	2973.4	2789.8	2296.6	1936.5	1680.6	1498.3	1319.0	1168.5	1008.0	924.2	880.7
17.5°	3232.3	2914.2	2338.6	1845.4	1505.6	1252.4	1031.1	840.2	720.2	633.4	614.7
20°	3550.5	3183.1	2428.2	1778.9	1362.3	996.4	753.5	588.6	488.8	474.3	470.0
22.5°	4016.2	3622.8	2620.5	1734.0	1187.3	776.7	516.3	428.1	400.6	397.7	399.2
25°	4667.0	4173.9	2830.3	1696.4	1055.7	598.8	422.3	363.0	354.3	350.0	357.2
27.5°	4949.0	4506.5	2941.7	1615.4	935.7	539.4	416.5	360.1	335.5	328.3	332.6
30°	5297.5	4727.8	3116.7	1476.6	759.3	444.0	389.1	391.9	380.4	344.2	332.6
32.5°	5760.4	5004.0	3204.8	1378.2	678.3	367.3	284.9	261.8	292.1	297.9	308.0
35°	6056.8	5284.5	3249.7	1320.4	636.3	313.8	241.6	219.9	212.6	214.1	219.9
37.5°	6607.8	5663.4	3306.1	1259.7	604.6	273.3	218.4	198.1	188.0	188.0	193.8
40°	6937.6	5964.3	3382.7	1226.4	572.7	248.8	198.1	180.8	172.1	172.1	175.0
42.5°	7020.0	6113.2	3356.7	1214.8	536.6	243.0	180.8	167.8	157.6	156.2	154.7
45°	7167.5	6340.3	3361.0	1201.8	498.9	221.3	170.7	156.2	141.7	140.3	138.8
47.5°	7329.5	6503.7	3369.7	1151.2	462.8	185.1	177.9	144.6	127.2	124.3	124.3
50°	7190.7	6633.9	3445.0	1100.6	416.5	150.4	175.0	135.9	112.8	108.4	109.9
52.5°	7208.1	6787.2	3604.0	1029.7	358.7	120.0	141.7	128.7	102.7	95.4	96.9
55°	6930.3	6625.2	3625.7	954.5	280.5	92.6	108.4	112.8	86.8	83.9	83.9
57.5°	5965.7	5610.0	3199.1	773.8	185.1	76.7	78.1	98.3	75.2	72.3	73.8
60°	5105.2	4503.6	2574.3	510.5	115.7	60.8	56.4	99.8	66.6	65.1	69.5
62.5°	4654.0	3700.9	1952.4	316.7	79.6	46.3	39.1	81.0	57.9	57.9	63.7
65°	3362.5	2486.1	1135.3	166.3	56.4	36.2	28.9	46.3	47.8	49.2	52.1
67.5°	2082.5	1255.3	478.7	81.0	37.6	24.6	18.8	28.9	31.8	31.8	34.7
70°	1028.2	500.4	159.1	46.3	28.9	20.3	13.0	15.9	15.9	14.5	15.9
72.5°	318.1	150.4	40.5	28.9	20.3	13.0	7.2	5.8	2.9	0.0	1.4
75°	36.2	28.9	26.0	20.3	13.0	5.8	1.4	0.0	0.0	0.0	0.0
77.5°	21.7	24.6	24.6	20.3	13.0	4.3	0.0	0.0	0.0	0.0	0.0
80°	17.4	18.8	20.3	18.8	11.6	5.8	0.0	0.0	0.0	0.0	0.0
82.5°	21.7	24.6	27.5	24.6	15.9	7.2	2.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	4.3	1.4	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4
2.5°	3170.1	3138.3	3183.1	3116.7	3115.2	3116.7	3097.9	3080.5	3108.0	3181.7	3188.9
5°	2419.5	2487.5	2509.2	2580.1	2541.1	2483.2	2494.7	2455.7	2551.2	2593.1	2559.9
7.5°	1761.5	1757.2	1903.2	1911.9	1930.7	1932.1	1929.3	1852.7	1774.5	1791.9	1844.0
10°	1366.7	1293.0	1363.8	1356.5	1402.8	1389.8	1408.6	1326.2	1353.7	1353.7	1386.9
12.5°	1113.6	1035.5	1022.5	1003.6	1022.5	1029.7	1036.9	1021.0	1067.3	1089.0	1112.2
15°	850.4	807.0	795.4	759.3	765.1	785.3	802.7	809.9	795.4	828.7	831.5
17.5°	617.6	616.1	623.3	621.9	616.1	611.8	610.3	591.5	585.8	588.6	600.2
20°	468.5	480.1	504.7	529.3	542.3	526.4	504.7	472.9	459.9	462.8	464.2
22.5°	400.6	418.0	451.2	478.7	491.7	462.8	423.8	396.3	390.5	389.1	387.6
25°	363.0	383.3	407.9	416.5	415.1	397.7	368.8	357.2	354.3	351.4	338.4
27.5°	342.7	350.0	354.3	364.5	368.8	357.2	350.0	332.6	329.7	329.7	321.0
30°	331.2	326.8	332.6	325.4	331.2	322.5	323.9	323.9	316.7	319.6	319.6
32.5°	308.0	309.5	309.5	295.0	299.3	289.2	299.3	308.0	309.5	310.9	322.5
35°	225.6	251.7	264.7	264.7	269.0	261.8	260.3	250.2	237.2	224.2	218.4
37.5°	198.1	208.3	225.6	235.8	243.0	237.2	224.2	208.3	201.0	195.3	189.5
40°	176.4	185.1	196.7	208.3	222.7	215.5	195.3	188.0	179.3	179.3	173.5
42.5°	159.1	163.4	170.7	188.0	203.9	189.5	175.0	169.2	164.9	163.4	162.0
45°	143.2	144.6	151.8	166.3	185.1	170.7	156.2	148.9	150.4	151.8	150.4
47.5°	128.7	131.6	135.9	153.3	164.9	157.6	141.7	137.4	137.4	137.4	138.8
50°	111.3	118.6	127.2	141.7	150.4	146.1	133.0	127.2	124.3	124.3	125.8
52.5°	99.8	105.5	117.1	134.5	146.1	138.8	125.8	117.1	111.3	109.9	112.8
55°	86.8	96.9	115.7	128.7	144.6	137.4	122.9	112.8	102.7	101.2	101.2
57.5°	78.1	94.0	111.3	127.2	140.3	134.5	122.9	109.9	96.9	95.4	95.4
60°	73.8	91.1	108.4	122.9	140.3	131.6	121.5	107.0	92.6	92.6	91.1
62.5°	69.5	85.3	102.7	117.1	134.5	127.2	117.1	102.7	88.2	88.2	85.3
65°	57.9	73.8	85.3	98.3	117.1	109.9	99.8	89.7	78.1	75.2	76.7
67.5°	40.5	50.6	62.2	75.2	86.8	83.9	79.6	72.3	62.2	60.8	59.3
70°	20.3	27.5	37.6	50.6	60.8	57.9	55.0	49.2	43.4	42.0	42.0
72.5°	2.9	8.7	15.9	23.2	31.8	33.3	31.8	30.4	28.9	27.5	28.9
75°	0.0	0.0	0.0	5.8	13.0	15.9	18.8	21.7	21.7	18.8	23.2
77.5°	0.0	0.0	0.0	0.0	1.4	7.2	14.5	18.8	23.2	20.3	27.5
80°	0.0	0.0	0.0	0.0	1.4	8.7	14.5	20.3	23.2	20.3	28.9
82.5°	0.0	0.0	0.0	0.0	1.4	10.1	14.5	18.8	21.7	20.3	26.0
85°	0.0	0.0	0.0	0.0	4.3	8.7	5.8	2.9	1.4	1.4	4.3
87.5°	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4
2.5°	3229.4	3332.1	3442.1	3484.0	3614.2	3712.5	3779.0	3922.2	3943.9	3945.3
5°	2594.5	2646.6	2834.6	2922.9	3116.7	3267.1	3427.6	3659.0	3813.7	3825.3
7.5°	1844.0	1988.6	2068.1	2298.0	2536.7	2772.4	3011.0	3280.1	3459.4	3463.8
10°	1483.9	1577.8	1719.5	1891.6	2092.7	2332.8	2650.9	2963.3	3145.5	3190.4
12.5°	1194.6	1359.4	1521.4	1699.3	1852.7	2033.4	2376.2	2792.6	2943.1	3032.7
15°	919.8	1070.2	1261.1	1469.4	1642.9	1884.4	2274.9	2750.8	3003.8	3034.2
17.5°	678.3	812.8	989.2	1185.9	1446.2	1789.0	2292.3	2963.3	3202.0	3252.6
20°	487.4	565.5	704.3	932.8	1264.0	1677.7	2309.6	3178.8	3541.8	3628.6
22.5°	386.2	418.0	509.1	711.5	1060.1	1560.5	2432.5	3591.0	4009.0	4134.8
25°	335.5	352.9	396.3	561.2	931.4	1548.9	2629.2	4085.6	4630.8	4722.0
27.5°	323.9	326.8	364.5	514.8	861.9	1472.3	2704.5	4437.0	5018.4	5111.0
30°	341.3	387.6	390.5	435.3	733.3	1320.4	2743.5	4776.9	5346.7	5414.7
32.5°	295.0	280.5	290.7	337.0	645.0	1232.2	2817.2	5073.4	5721.3	5769.0
35°	205.4	215.5	238.7	292.1	564.0	1139.7	2836.0	5400.3	6077.1	6126.3
37.5°	189.5	195.3	214.1	248.8	496.0	1087.6	2810.0	5638.9	6445.9	6513.9
40°	176.4	183.7	193.8	225.6	445.4	1029.7	2773.9	5854.3	6671.5	6839.3
42.5°	166.3	172.1	180.8	215.5	402.1	971.9	2723.3	6158.1	6874.0	7020.0
45°	154.7	163.4	173.5	209.7	377.5	932.8	2685.7	6139.3	6991.1	7069.2
47.5°	143.2	157.6	169.2	195.3	370.2	914.0	2701.6	6068.4	6895.6	6842.2
50°	131.6	150.4	170.7	162.0	352.9	876.4	2720.4	6165.3	6668.6	6658.5
52.5°	121.5	143.2	159.1	133.0	313.8	840.2	2902.6	6292.6	6829.1	6694.6
55°	107.0	128.7	127.2	107.0	254.6	812.8	3045.8	6295.5	6720.6	6771.2
57.5°	96.9	114.2	99.8	89.7	188.0	679.7	2812.9	5278.8	5753.1	5842.7
60°	89.7	111.3	75.2	70.9	122.9	490.2	2455.7	4088.5	4573.0	4742.2
62.5°	82.4	105.5	59.3	57.9	85.3	348.5	2019.0	3421.8	3941.0	4171.0
65°	72.3	75.2	47.8	44.9	60.8	188.0	1229.3	2355.9	2946.0	3031.3
67.5°	59.3	57.9	39.1	36.2	40.5	91.1	542.3	1180.1	1708.0	1851.2
70°	47.8	47.8	33.3	28.9	28.9	42.0	141.7	470.0	772.3	854.7
72.5°	34.7	36.2	26.0	23.2	21.7	20.3	23.2	94.0	202.5	258.9
75°	30.4	31.8	26.0	20.3	15.9	13.0	10.1	8.7	11.6	18.8
77.5°	33.3	33.3	27.5	18.8	14.5	10.1	5.8	2.9	2.9	1.4
80°	42.0	43.4	36.2	24.6	17.4	11.6	7.2	2.9	1.4	1.4
82.5°	44.9	49.2	40.5	30.4	21.7	13.0	7.2	1.4	0.0	0.0
85°	11.6	18.8	31.8	27.5	21.7	13.0	7.2	1.4	0.0	0.0
87.5°	0.0	1.4	4.3	4.3	5.8	5.8	4.3	1.4	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

(END OF REPORT)