

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: P527481

Luminaire Tested: **GALN-SA2C-730-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527481
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-SA2C-730-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA 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: 7118 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

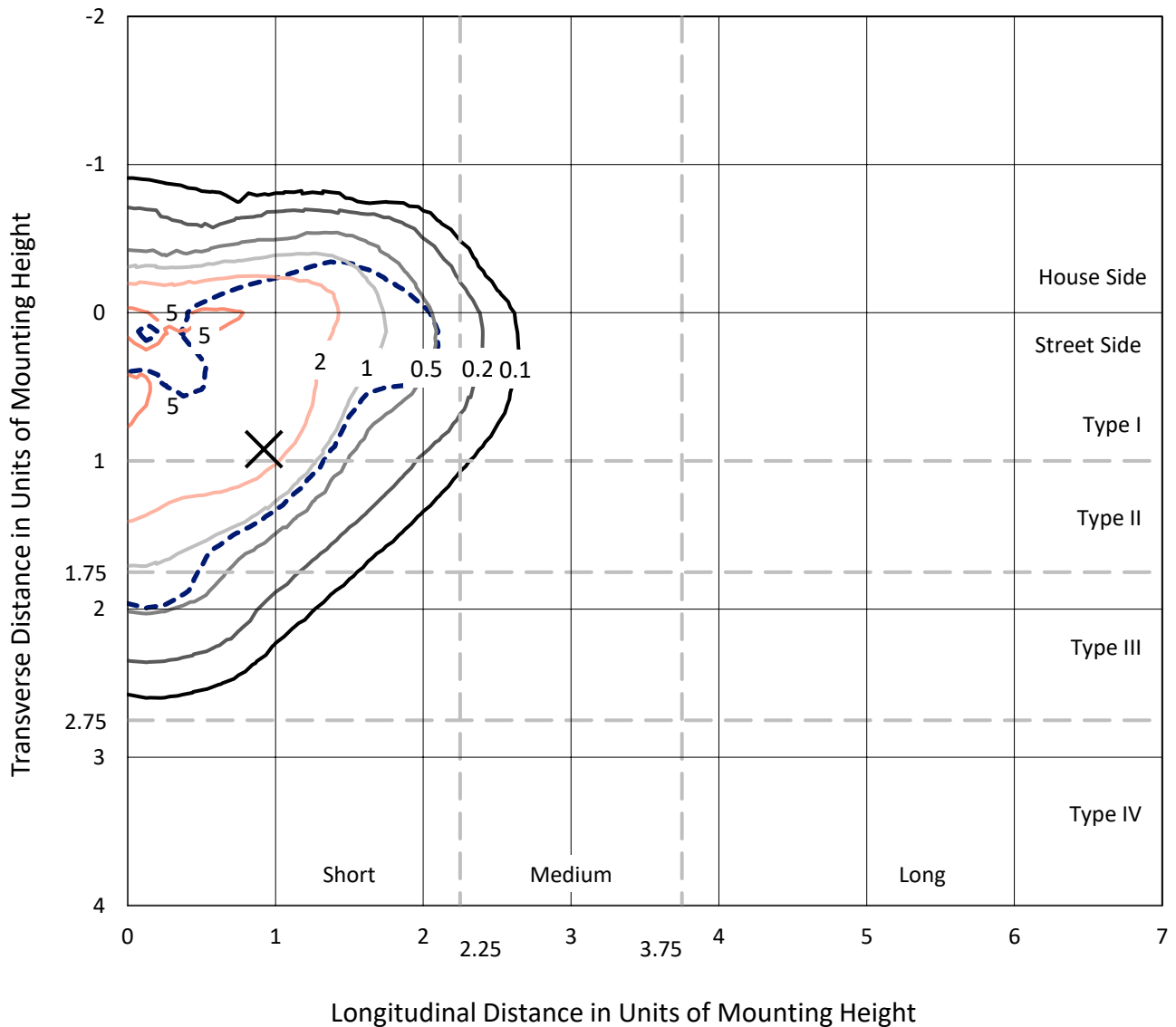
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

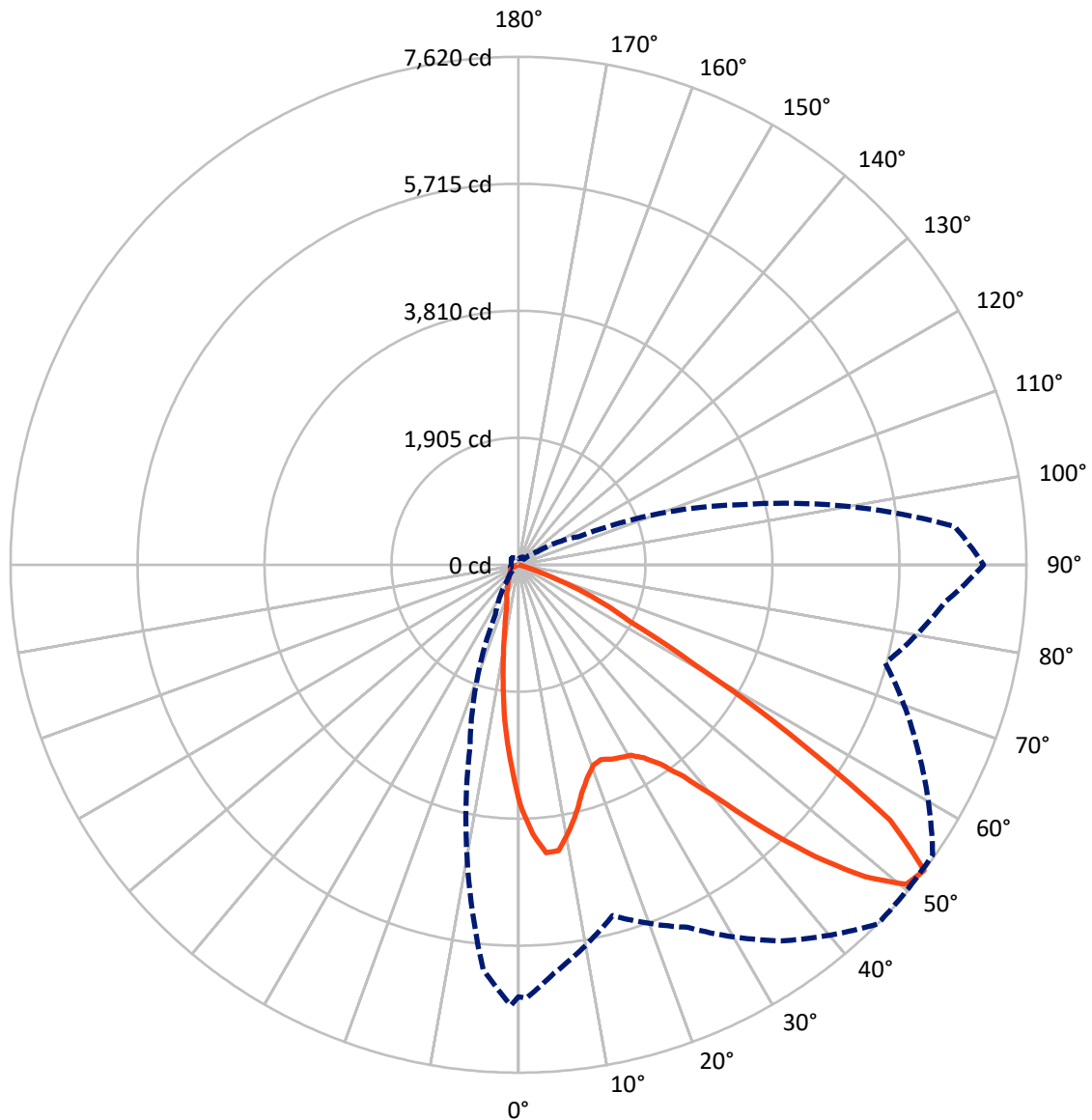
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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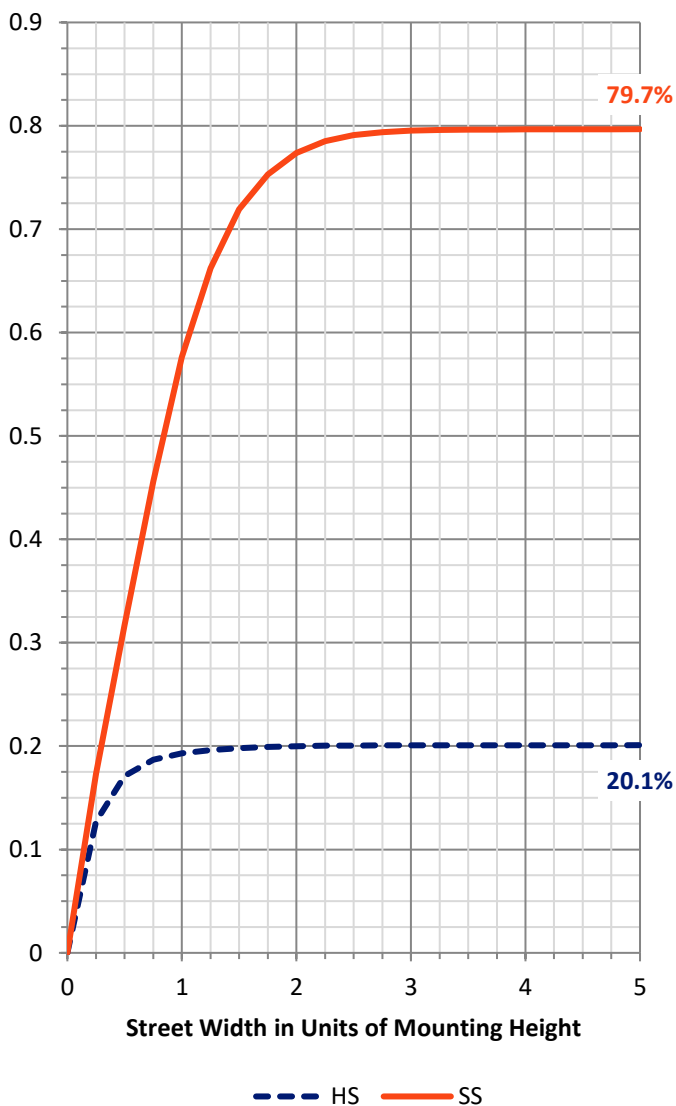
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1444.6	0.0	1444.6
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	5673.4	0.0	5673.4
	% Fixture	79.7	0.0	79.7
Total	Lumens	7118.0	0.0	7118.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.2	3.7
10°-20°	519.3	7.3
20°-30°	790.3	11.1
30°-40°	1181.2	16.6
40°-50°	1682.1	23.6
50°-60°	1808.2	25.4
60°-70°	801.3	11.3
70°-80°	64.8	0.9
80°-90°	7.6	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°	7118.0	100.0
0°-180°	7118.0	100.0

Coefficient of Utilization



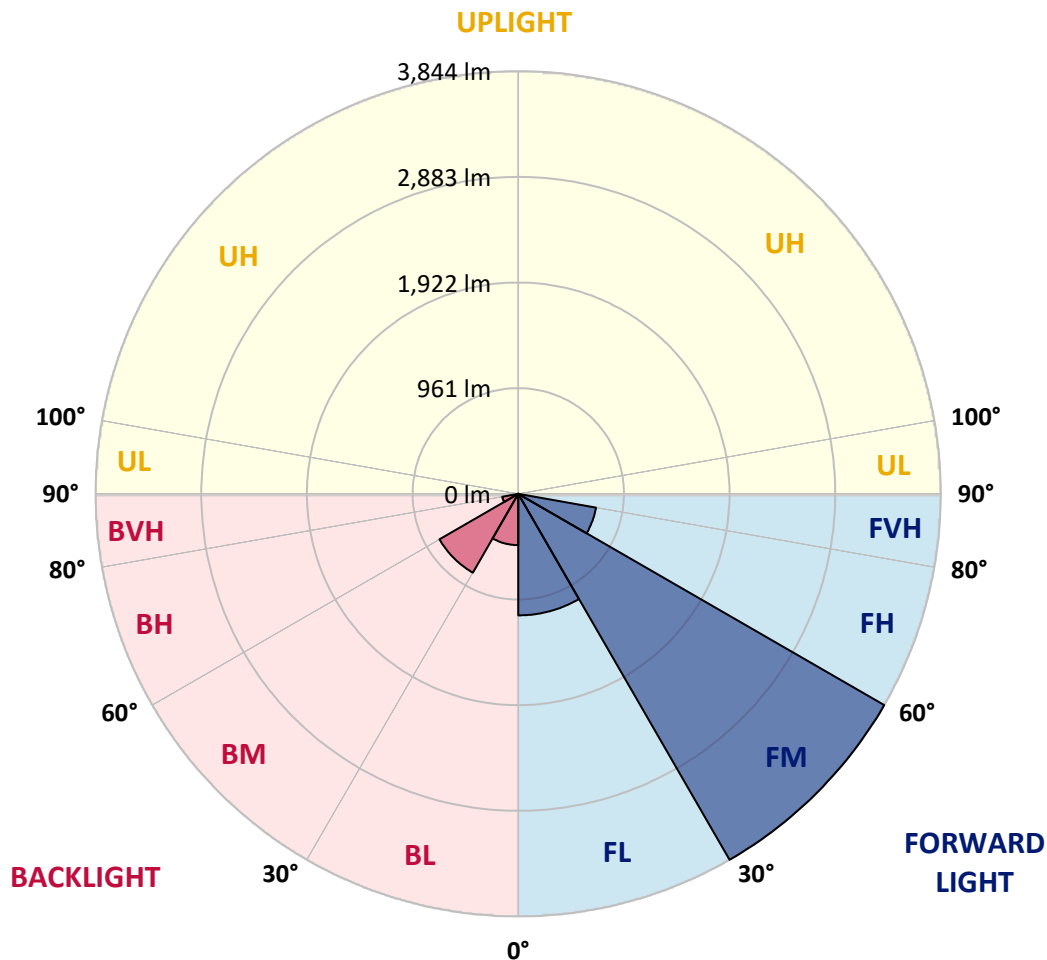
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1105.6	15.5			
FM (30°-60°)	3843.9	54.0			
FH (60°-80°)	718.3	10.1			G1/1800
FVH (80°-90°)	5.6	0.1			G0/10
BL (0°-30°)	467.2	6.6	B1/500		
BM (30°-60°)	827.6	11.6	B1/1000		
BH (60°-80°)	147.8	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°	3609.2	3609.2	3609.2	3609.2	3609.2	3609.2	3609.2	3609.2	3609.2	3609.2	3609.2
2.5°	3819.2	3830.4	3892.0	3969.0	4009.6	4102.0	4037.6	4054.4	4019.4	3896.2	3799.6
5°	3703.0	3701.6	3780.0	3970.4	4151.0	4334.3	4339.9	4241.9	4069.8	3880.8	3610.6
7.5°	3353.0	3407.6	3488.8	3792.6	4127.2	4264.3	4330.1	4215.3	3950.8	3680.6	3388.0
10°	3088.4	3116.4	3253.6	3620.4	3865.4	4048.8	4089.4	4023.6	3820.6	3483.2	3155.6
12.5°	2935.8	2949.8	3110.8	3418.8	3677.8	3813.6	3833.2	3864.0	3718.4	3402.0	3008.6
15°	2937.2	2948.4	3165.4	3423.0	3525.2	3488.8	3553.2	3551.8	3614.8	3386.6	3131.8
17.5°	3148.6	3161.2	3357.2	3484.6	3439.8	3354.4	3350.2	3414.6	3547.6	3578.4	3318.0
20°	3512.6	3542.0	3686.2	3679.2	3427.2	3255.0	3207.4	3256.4	3565.8	3740.8	3693.2
22.5°	4002.6	4043.2	4144.0	3950.8	3484.6	3187.8	3172.4	3267.6	3686.2	4103.4	4118.8
25°	4570.9	4639.5	4688.5	4440.7	3689.0	3304.0	3231.2	3395.0	3848.6	4496.7	4660.5
27.5°	4947.5	5018.9	5007.7	4653.5	3826.2	3334.8	3273.2	3425.8	3990.0	4590.5	4943.3
30°	5241.5	5284.9	5363.3	4768.3	3963.4	3421.6	3316.6	3556.0	4036.2	4752.9	5284.9
32.5°	5584.5	5613.9	5619.5	4971.3	4174.8	3530.8	3451.0	3718.4	4240.5	4908.3	5587.3
35°	5930.3	5973.7	5882.7	5221.9	4304.9	3733.8	3675.0	3999.8	4404.3	5069.3	5920.5
37.5°	6305.5	6327.9	6117.9	5325.5	4491.1	4064.2	4032.0	4303.5	4688.5	5360.5	6290.1
40°	6620.5	6641.5	6368.5	5452.9	4687.1	4526.1	4608.7	4883.1	5074.9	5549.5	6474.9
42.5°	6795.5	6844.5	6452.5	5382.9	5080.5	5049.7	5416.5	5513.1	5522.9	5602.7	6640.1
45°	6843.1	6820.7	6313.9	5440.3	5424.9	5910.7	6243.9	6371.3	5968.1	5700.7	6682.1
47.5°	6623.3	6652.7	6109.5	5389.9	5877.1	6563.1	6994.3	7230.9	6299.9	5615.3	6578.5
50°	6445.5	6407.7	6043.7	5353.5	5998.9	6871.1	7536.1	7589.3	6605.1	5720.3	6465.1
52.5°	6480.5	6504.3	6148.7	5450.1	6001.7	6889.3	7620.1	7583.7	6614.9	5696.5	6424.5
55°	6554.7	6449.7	6103.9	5237.3	5599.9	6381.1	6763.3	6707.3	6105.3	5443.1	6325.1
57.5°	5655.9	5818.3	5612.5	4675.9	4596.1	4807.5	4800.5	4972.7	4554.1	4684.3	5758.1
60°	4590.5	4618.5	4695.5	3999.8	3180.8	3108.0	3007.2	2898.0	3064.6	4005.4	5237.3
62.5°	4037.6	4004.0	4278.3	3638.6	2245.6	1880.2	1863.4	1930.6	2364.6	3820.6	4912.5
65°	2934.4	2976.4	3175.2	2823.8	1685.6	1435.0	1409.8	1608.6	1913.8	3061.8	3749.2
67.5°	1792.0	1873.2	1891.4	1741.6	1143.8	908.6	872.2	1052.8	1381.8	1981.0	2198.0
70°	827.4	925.4	1017.8	950.6	662.2	373.8	352.8	442.4	697.2	1139.6	1166.2
72.5°	250.6	252.0	352.8	368.2	214.2	84.0	74.2	98.0	236.6	376.6	396.2
75°	18.2	19.6	47.6	54.6	40.6	21.0	22.4	26.6	50.4	84.0	63.0
77.5°	1.4	1.4	1.4	7.0	12.6	14.0	18.2	21.0	26.6	30.8	28.0
80°	1.4	0.0	1.4	5.6	9.8	14.0	16.8	19.6	21.0	23.8	21.0
82.5°	0.0	0.0	0.0	4.2	9.8	14.0	15.4	21.0	23.8	28.0	23.8
85°	0.0	0.0	0.0	4.2	9.8	15.4	14.0	7.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3609.2	3609.2	3609.2	3609.2	3609.2	3609.2	3609.2	3609.2	3609.2	3609.2	3609.2
2.5°	3816.4	3761.8	3637.2	3574.2	3425.8	3404.8	3259.2	3235.4	3186.4	3159.8	3095.4
5°	3491.6	3425.8	3222.8	3052.0	2853.2	2714.6	2608.2	2511.6	2455.6	2403.8	2427.6
7.5°	3227.0	3035.2	2809.8	2524.2	2294.6	2146.2	1983.8	1850.8	1772.4	1719.2	1731.8
10°	2949.8	2825.2	2511.6	2191.0	1913.8	1808.8	1681.4	1579.2	1468.6	1373.4	1328.6
12.5°	2863.0	2678.2	2284.8	1958.6	1748.6	1646.4	1500.8	1383.2	1241.8	1125.6	1085.0
15°	2878.4	2700.6	2223.2	1874.6	1626.8	1450.4	1276.8	1131.2	975.8	894.6	852.6
17.5°	3129.0	2821.0	2263.8	1786.4	1457.4	1212.4	998.2	813.4	697.2	613.2	595.0
20°	3437.0	3081.4	2350.6	1722.0	1318.8	964.6	729.4	569.8	473.2	459.2	455.0
22.5°	3887.8	3507.0	2536.8	1678.6	1149.4	751.8	499.8	414.4	387.8	385.0	386.4
25°	4517.7	4040.4	2739.8	1642.2	1022.0	579.6	408.8	351.4	343.0	338.8	345.8
27.5°	4790.7	4362.3	2847.6	1563.8	905.8	522.2	403.2	348.6	324.8	317.8	322.0
30°	5128.1	4576.5	3017.0	1429.4	735.0	429.8	376.6	379.4	368.2	333.2	322.0
32.5°	5576.1	4843.9	3102.4	1334.2	656.6	355.6	275.8	253.4	282.8	288.4	298.2
35°	5863.1	5115.5	3145.8	1278.2	616.0	303.8	233.8	212.8	205.8	207.2	212.8
37.5°	6396.5	5482.3	3200.4	1219.4	585.2	264.6	211.4	191.8	182.0	182.0	187.6
40°	6715.7	5773.5	3274.6	1187.2	554.4	240.8	191.8	175.0	166.6	166.6	169.4
42.5°	6795.5	5917.7	3249.4	1176.0	519.4	235.2	175.0	162.4	152.6	151.2	149.8
45°	6938.3	6137.5	3253.6	1163.4	483.0	214.2	165.2	151.2	137.2	135.8	134.4
47.5°	7095.1	6295.7	3262.0	1114.4	448.0	179.2	172.2	140.0	123.2	120.4	120.4
50°	6960.7	6421.7	3334.8	1065.4	403.2	145.6	169.4	131.6	109.2	105.0	106.4
52.5°	6977.5	6570.1	3488.8	996.8	347.2	116.2	137.2	124.6	99.4	92.4	93.8
55°	6708.7	6413.3	3509.8	924.0	271.6	89.6	105.0	109.2	84.0	81.2	81.2
57.5°	5774.9	5430.5	3096.8	749.0	179.2	74.2	75.6	95.2	72.8	70.0	71.4
60°	4941.9	4359.5	2492.0	494.2	112.0	58.8	54.6	96.6	64.4	63.0	67.2
62.5°	4505.1	3582.6	1890.0	306.6	77.0	44.8	37.8	78.4	56.0	56.0	61.6
65°	3255.0	2406.6	1099.0	161.0	54.6	35.0	28.0	44.8	46.2	47.6	50.4
67.5°	2016.0	1215.2	463.4	78.4	36.4	23.8	18.2	28.0	30.8	30.8	33.6
70°	995.4	484.4	154.0	44.8	28.0	19.6	12.6	15.4	15.4	14.0	15.4
72.5°	308.0	145.6	39.2	28.0	19.6	12.6	7.0	5.6	2.8	0.0	1.4
75°	35.0	28.0	25.2	19.6	12.6	5.6	1.4	0.0	0.0	0.0	0.0
77.5°	21.0	23.8	23.8	19.6	12.6	4.2	0.0	0.0	0.0	0.0	0.0
80°	16.8	18.2	19.6	18.2	11.2	5.6	0.0	0.0	0.0	0.0	0.0
82.5°	21.0	23.8	26.6	23.8	15.4	7.0	2.8	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	4.2	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°	3609.2	3609.2	3609.2	3609.2	3609.2	3609.2	3609.2	3609.2	3609.2	3609.2	3609.2
2.5°	3068.8	3038.0	3081.4	3017.0	3015.6	3017.0	2998.8	2982.0	3008.6	3080.0	3087.0
5°	2342.2	2408.0	2429.0	2497.6	2459.8	2403.8	2415.0	2377.2	2469.6	2510.2	2478.0
7.5°	1705.2	1701.0	1842.4	1850.8	1869.0	1870.4	1867.6	1793.4	1717.8	1734.6	1785.0
10°	1323.0	1251.6	1320.2	1313.2	1358.0	1345.4	1363.6	1283.8	1310.4	1310.4	1342.6
12.5°	1078.0	1002.4	989.8	971.6	989.8	996.8	1003.8	988.4	1033.2	1054.2	1076.6
15°	823.2	781.2	770.0	735.0	740.6	760.2	777.0	784.0	770.0	802.2	805.0
17.5°	597.8	596.4	603.4	602.0	596.4	592.2	590.8	572.6	567.0	569.8	581.0
20°	453.6	464.8	488.6	512.4	525.0	509.6	488.6	457.8	445.2	448.0	449.4
22.5°	387.8	404.6	436.8	463.4	476.0	448.0	410.2	383.6	378.0	376.6	375.2
25°	351.4	371.0	394.8	403.2	401.8	385.0	357.0	345.8	343.0	340.2	327.6
27.5°	331.8	338.8	343.0	352.8	357.0	345.8	338.8	322.0	319.2	319.2	310.8
30°	320.6	316.4	322.0	315.0	320.6	312.2	313.6	313.6	306.6	309.4	309.4
32.5°	298.2	299.6	299.6	285.6	289.8	280.0	289.8	298.2	299.6	301.0	312.2
35°	218.4	243.6	256.2	256.2	260.4	253.4	252.0	242.2	229.6	217.0	211.4
37.5°	191.8	201.6	218.4	228.2	235.2	229.6	217.0	201.6	194.6	189.0	183.4
40°	170.8	179.2	190.4	201.6	215.6	208.6	189.0	182.0	173.6	173.6	168.0
42.5°	154.0	158.2	165.2	182.0	197.4	183.4	169.4	163.8	159.6	158.2	156.8
45°	138.6	140.0	147.0	161.0	179.2	165.2	151.2	144.2	145.6	147.0	145.6
47.5°	124.6	127.4	131.6	148.4	159.6	152.6	137.2	133.0	133.0	133.0	134.4
50°	107.8	114.8	123.2	137.2	145.6	141.4	128.8	123.2	120.4	120.4	121.8
52.5°	96.6	102.2	113.4	130.2	141.4	134.4	121.8	113.4	107.8	106.4	109.2
55°	84.0	93.8	112.0	124.6	140.0	133.0	119.0	109.2	99.4	98.0	98.0
57.5°	75.6	91.0	107.8	123.2	135.8	130.2	119.0	106.4	93.8	92.4	92.4
60°	71.4	88.2	105.0	119.0	135.8	127.4	117.6	103.6	89.6	89.6	88.2
62.5°	67.2	82.6	99.4	113.4	130.2	123.2	113.4	99.4	85.4	85.4	82.6
65°	56.0	71.4	82.6	95.2	113.4	106.4	96.6	86.8	75.6	72.8	74.2
67.5°	39.2	49.0	60.2	72.8	84.0	81.2	77.0	70.0	60.2	58.8	57.4
70°	19.6	26.6	36.4	49.0	58.8	56.0	53.2	47.6	42.0	40.6	40.6
72.5°	2.8	8.4	15.4	22.4	30.8	32.2	30.8	29.4	28.0	26.6	28.0
75°	0.0	0.0	0.0	5.6	12.6	15.4	18.2	21.0	21.0	18.2	22.4
77.5°	0.0	0.0	0.0	0.0	1.4	7.0	14.0	18.2	22.4	19.6	26.6
80°	0.0	0.0	0.0	0.0	1.4	8.4	14.0	19.6	22.4	19.6	28.0
82.5°	0.0	0.0	0.0	0.0	1.4	9.8	14.0	18.2	21.0	19.6	25.2
85°	0.0	0.0	0.0	0.0	4.2	8.4	5.6	2.8	1.4	1.4	4.2
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°	3609.2	3609.2	3609.2	3609.2	3609.2	3609.2	3609.2	3609.2	3609.2	3609.2
2.5°	3126.2	3225.6	3332.0	3372.6	3498.6	3593.8	3658.2	3796.8	3817.8	3819.2
5°	2511.6	2562.0	2744.0	2829.4	3017.0	3162.6	3318.0	3542.0	3691.8	3703.0
7.5°	1785.0	1925.0	2002.0	2224.6	2455.6	2683.8	2914.8	3175.2	3348.8	3353.0
10°	1436.4	1527.4	1664.6	1831.2	2025.8	2258.2	2566.2	2868.6	3045.0	3088.4
12.5°	1156.4	1316.0	1472.8	1645.0	1793.4	1968.4	2300.2	2703.4	2849.0	2935.8
15°	890.4	1036.0	1220.8	1422.4	1590.4	1824.2	2202.2	2662.8	2907.8	2937.2
17.5°	656.6	786.8	957.6	1148.0	1400.0	1731.8	2219.0	2868.6	3099.6	3148.6
20°	471.8	547.4	681.8	903.0	1223.6	1624.0	2235.8	3077.2	3428.6	3512.6
22.5°	373.8	404.6	492.8	688.8	1026.2	1510.6	2354.8	3476.2	3880.8	4002.6
25°	324.8	341.6	383.6	543.2	901.6	1499.4	2545.2	3955.0	4482.7	4570.9
27.5°	313.6	316.4	352.8	498.4	834.4	1425.2	2618.0	4295.1	4857.9	4947.5
30°	330.4	375.2	378.0	421.4	709.8	1278.2	2655.8	4624.1	5175.7	5241.5
32.5°	285.6	271.6	281.4	326.2	624.4	1192.8	2727.2	4911.1	5538.3	5584.5
35°	198.8	208.6	231.0	282.8	546.0	1103.2	2745.4	5227.5	5882.7	5930.3
37.5°	183.4	189.0	207.2	240.8	480.2	1052.8	2720.2	5458.5	6239.7	6305.5
40°	170.8	177.8	187.6	218.4	431.2	996.8	2685.2	5667.1	6458.1	6620.5
42.5°	161.0	166.6	175.0	208.6	389.2	940.8	2636.2	5961.1	6654.1	6795.5
45°	149.8	158.2	168.0	203.0	365.4	903.0	2599.8	5942.9	6767.5	6843.1
47.5°	138.6	152.6	163.8	189.0	358.4	884.8	2615.2	5874.3	6675.1	6623.3
50°	127.4	145.6	165.2	156.8	341.6	848.4	2633.4	5968.1	6455.3	6445.5
52.5°	117.6	138.6	154.0	128.8	303.8	813.4	2809.8	6091.3	6610.7	6480.5
55°	103.6	124.6	123.2	103.6	246.4	786.8	2948.4	6094.1	6505.7	6554.7
57.5°	93.8	110.6	96.6	86.8	182.0	658.0	2723.0	5109.9	5569.1	5655.9
60°	86.8	107.8	72.8	68.6	119.0	474.6	2377.2	3957.8	4426.7	4590.5
62.5°	79.8	102.2	57.4	56.0	82.6	337.4	1954.4	3312.4	3815.0	4037.6
65°	70.0	72.8	46.2	43.4	58.8	182.0	1190.0	2280.6	2851.8	2934.4
67.5°	57.4	56.0	37.8	35.0	39.2	88.2	525.0	1142.4	1653.4	1792.0
70°	46.2	46.2	32.2	28.0	28.0	40.6	137.2	455.0	747.6	827.4
72.5°	33.6	35.0	25.2	22.4	21.0	19.6	22.4	91.0	196.0	250.6
75°	29.4	30.8	25.2	19.6	15.4	12.6	9.8	8.4	11.2	18.2
77.5°	32.2	32.2	26.6	18.2	14.0	9.8	5.6	2.8	2.8	1.4
80°	40.6	42.0	35.0	23.8	16.8	11.2	7.0	2.8	1.4	1.4
82.5°	43.4	47.6	39.2	29.4	21.0	12.6	7.0	1.4	0.0	0.0
85°	11.2	18.2	30.8	26.6	21.0	12.6	7.0	1.4	0.0	0.0
87.5°	0.0	1.4	4.2	4.2	5.6	5.6	4.2	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)