

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: P531693

Luminaire Tested: **GALN-SA7A-730-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531693
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-SA7A-730-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA 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: 16037 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

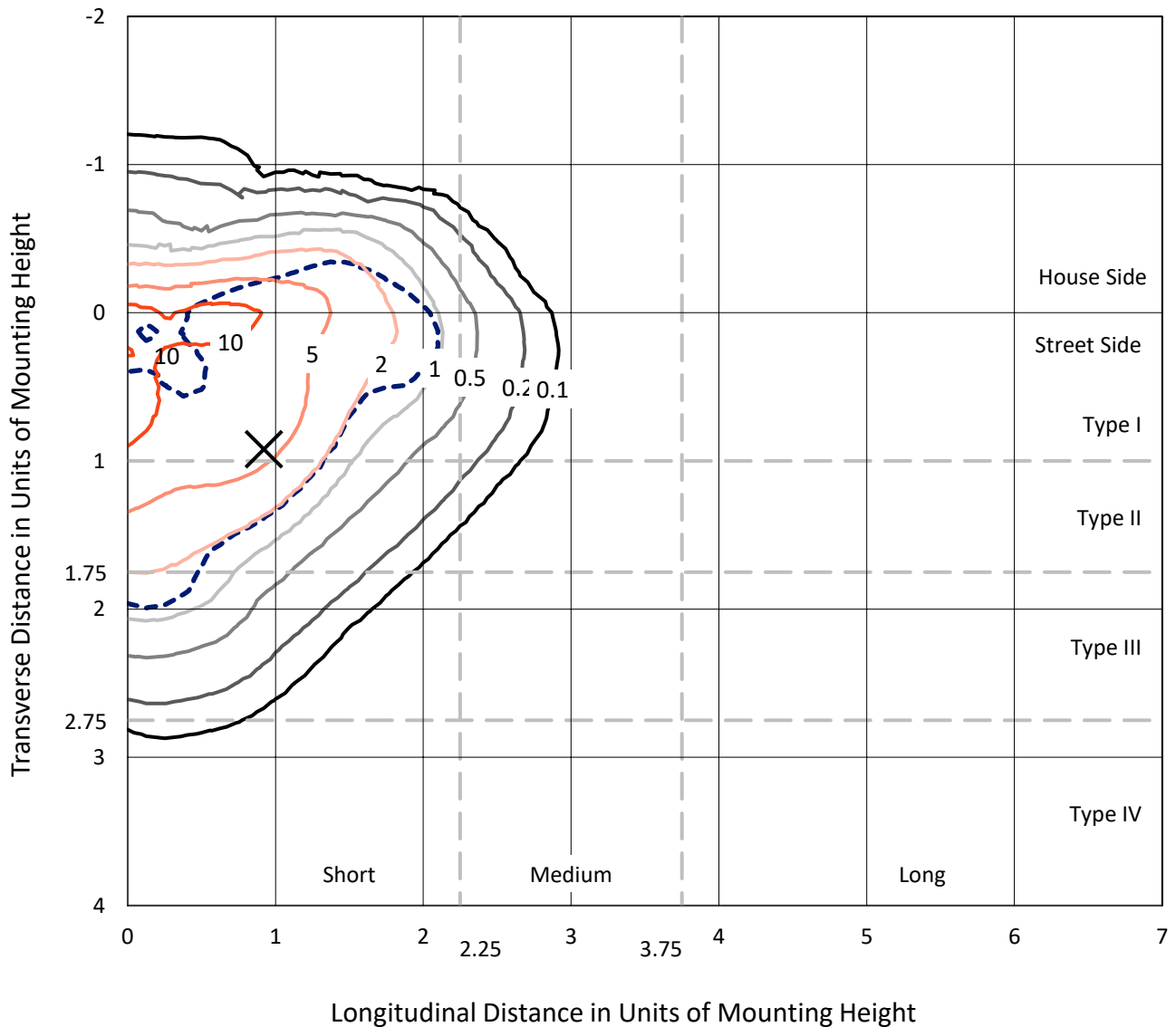
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

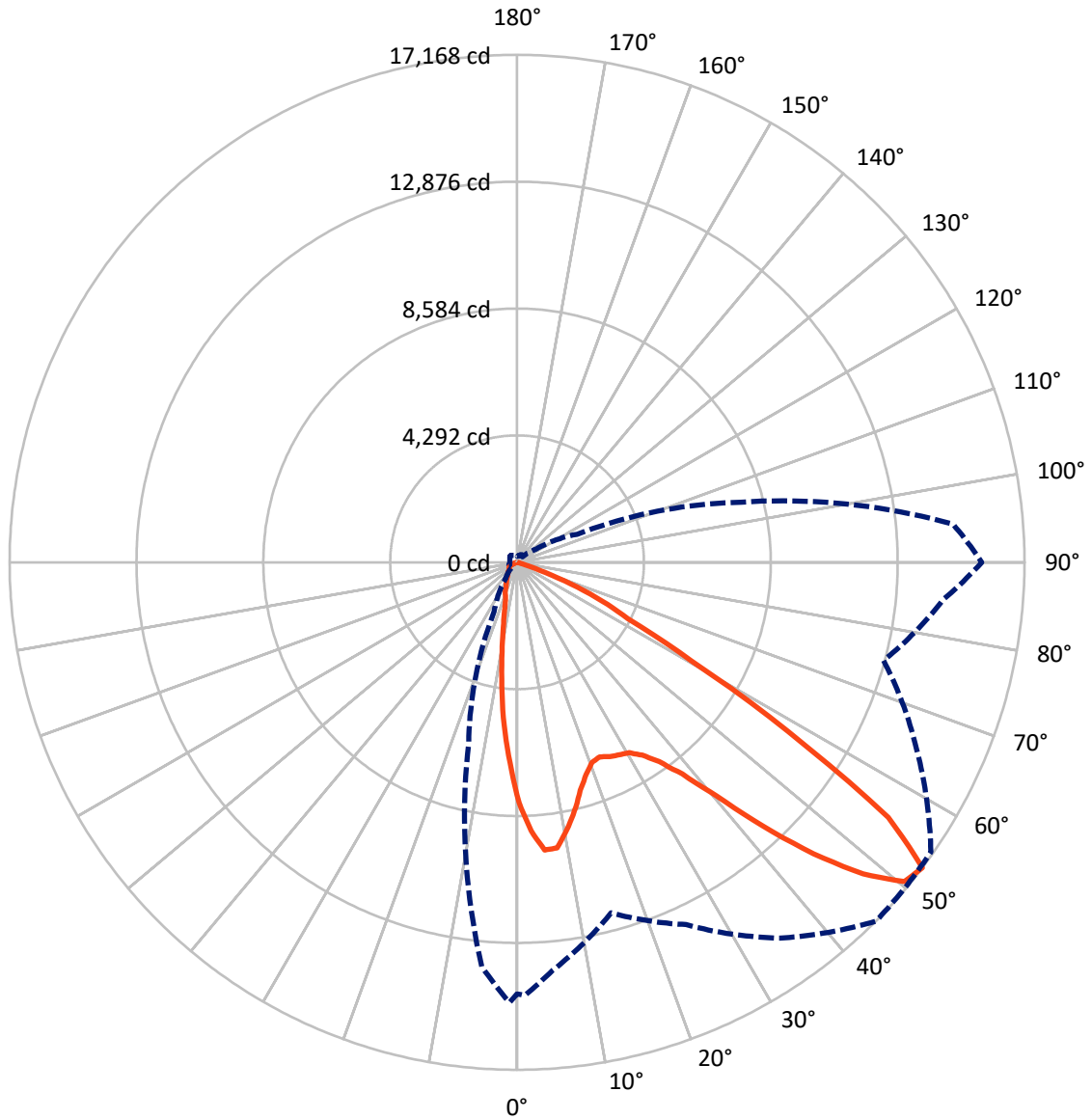
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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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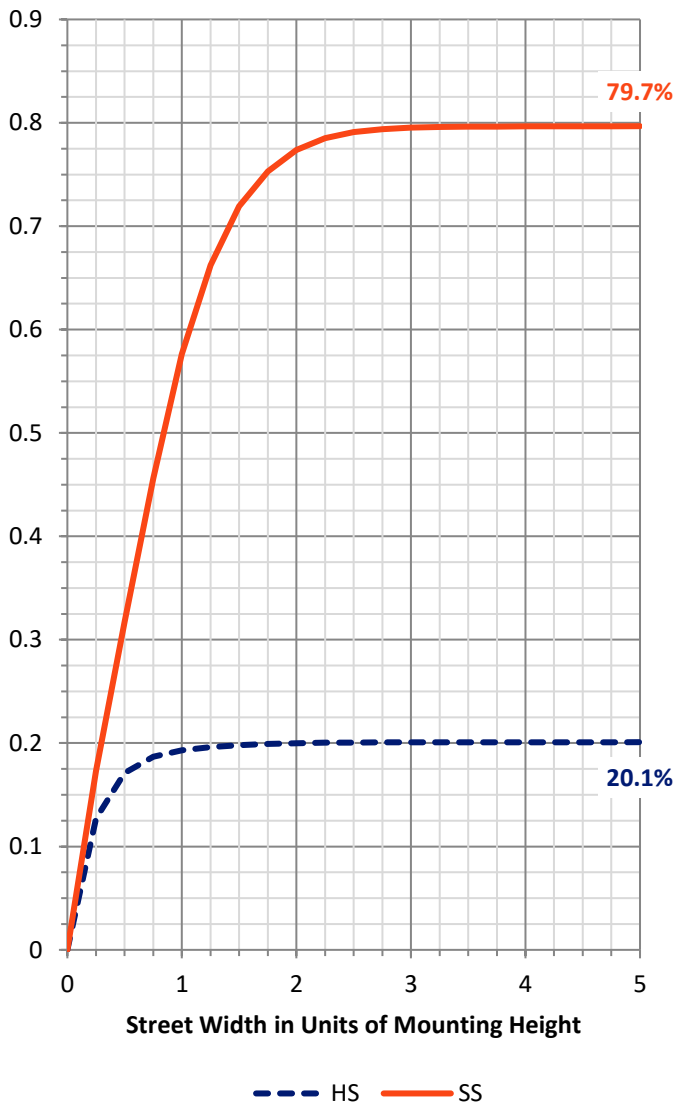
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3254.7	0.0	3254.7
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	12782.3	0.0	12782.3
	% Fixture	79.7	0.0	79.7
Total	Lumens	16037.0	0.0	16037.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.0	3.7
10°-20°	1170.0	7.3
20°-30°	1780.6	11.1
30°-40°	2661.2	16.6
40°-50°	3789.9	23.6
50°-60°	4074.0	25.4
60°-70°	1805.3	11.3
70°-80°	146.1	0.9
80°-90°	17.0	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°	16037.0	100.0
0°-180°	16037.0	100.0

Coefficient of Utilization



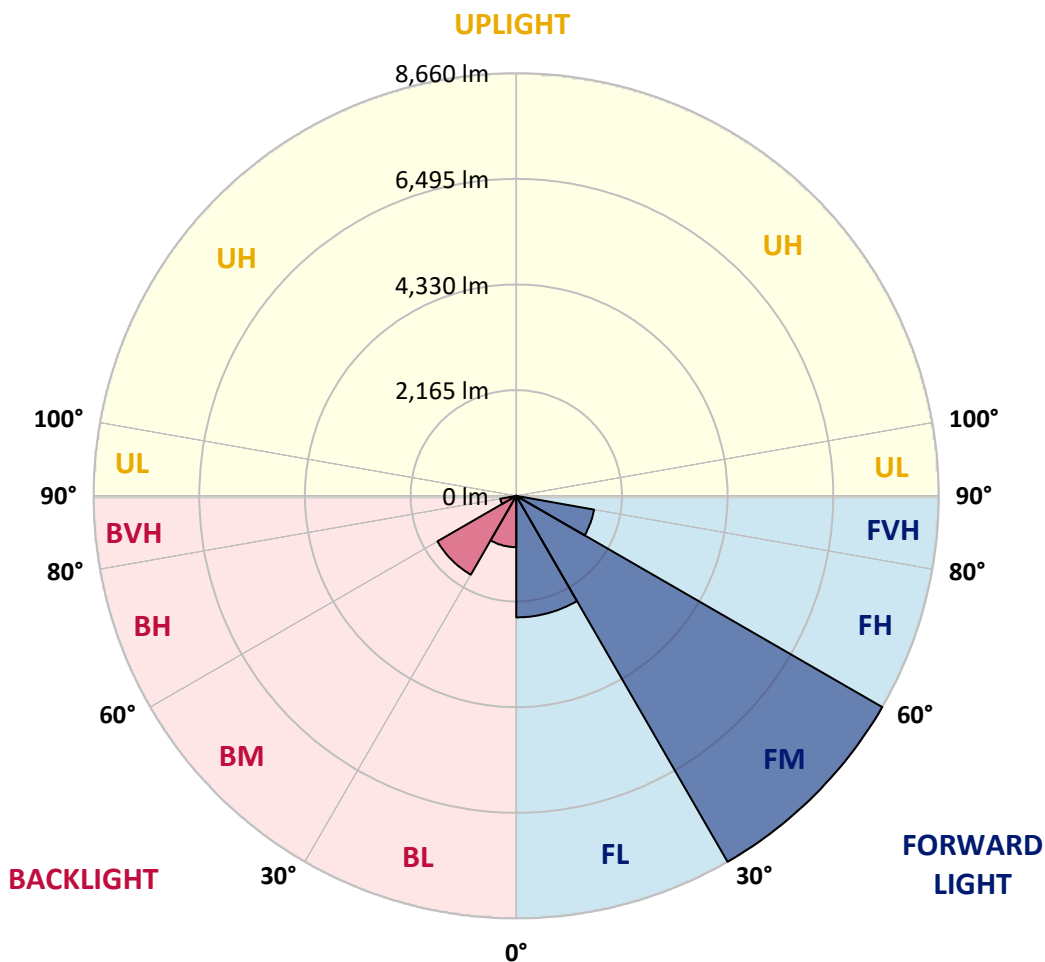
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2490.9	15.5			
FM (30°-60°)	8660.5	54.0			
FH (60°-80°)	1618.3	10.1			G1/1800
FVH (80°-90°)	12.6	0.1			G1/100
BL (0°-30°)	1052.7	6.6	B3/2500		
BM (30°-60°)	1864.6	11.6	B2/2500		
BH (60°-80°)	333.0	2.1	B1/500		G1/500
BVH (80°-90°)	4.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8131.5	8131.5	8131.5	8131.5	8131.5	8131.5	8131.5	8131.5	8131.5	8131.5	8131.5
2.5°	8604.6	8629.9	8768.7	8942.1	9033.6	9241.8	9096.7	9134.5	9055.7	8778.1	8560.5
5°	8342.8	8339.7	8516.3	8945.3	9352.2	9765.4	9778.0	9557.2	9169.2	8743.4	8134.7
7.5°	7554.3	7677.3	7860.2	8544.7	9298.6	9607.7	9755.9	9497.3	8901.1	8292.4	7633.1
10°	6958.1	7021.2	7330.3	8156.7	8708.7	9121.9	9213.4	9065.1	8607.8	7847.6	7109.5
12.5°	6614.3	6645.9	7008.6	7702.5	8286.1	8592.0	8636.2	8705.6	8377.5	7664.7	6778.4
15°	6617.5	6642.7	7131.6	7712.0	7942.3	7860.2	8005.3	8002.2	8144.1	7630.0	7055.9
17.5°	7093.8	7122.2	7563.8	7850.8	7749.8	7557.4	7548.0	7693.1	7992.7	8062.1	7475.4
20°	7913.9	7980.1	8305.0	8289.2	7721.5	7333.5	7226.3	7336.6	8033.7	8428.0	8320.8
22.5°	9017.8	9109.3	9336.4	8901.1	7850.8	7182.1	7147.4	7361.9	8305.0	9244.9	9279.6
25°	10298.4	10453.0	10563.4	10005.1	8311.3	7443.9	7279.9	7648.9	8670.9	10131.3	10500.3
27.5°	11146.9	11307.8	11282.5	10484.5	8620.4	7513.3	7374.5	7718.3	8989.4	10342.6	11137.4
30°	11809.3	11907.1	12083.7	10743.2	8929.5	7708.8	7472.3	8011.6	9093.5	10708.5	11907.1
32.5°	12582.1	12648.3	12660.9	11200.5	9405.8	7954.9	7775.1	8377.5	9554.0	11058.6	12588.4
35°	13361.2	13458.9	13253.9	11765.1	9699.1	8412.2	8279.8	9011.5	9923.1	11421.3	13339.1
37.5°	14206.5	14256.9	13783.8	11998.5	10118.6	9156.6	9084.1	9696.0	10563.4	12077.4	14171.8
40°	14916.2	14963.5	14348.4	12285.6	10560.2	10197.5	10383.6	11001.8	11433.9	12503.2	14588.1
42.5°	15310.4	15420.8	14537.7	12127.9	11446.6	11377.2	12203.6	12421.2	12443.3	12623.1	14960.3
45°	15417.7	15367.2	14225.4	12257.2	12222.5	13317.0	14067.7	14354.7	13446.3	12843.9	15055.0
47.5°	14922.5	14988.7	13764.9	12143.6	13241.3	14786.8	15758.3	16291.4	14193.9	12651.5	14821.5
50°	14521.9	14436.7	13616.6	12061.6	13515.7	15480.8	16979.0	17098.9	14881.5	12888.0	14566.1
52.5°	14600.8	14654.4	13853.2	12279.3	13522.0	15521.8	17168.3	17086.3	14903.6	12834.4	14474.6
55°	14767.9	14531.4	13752.3	11799.8	12616.8	14376.8	15237.9	15111.7	13755.4	12263.5	14250.6
57.5°	12742.9	13108.8	12645.2	10535.0	10355.2	10831.5	10815.7	11203.7	10260.6	10553.9	12973.2
60°	10342.6	10405.7	10579.2	9011.5	7166.3	7002.3	6775.2	6529.2	6904.5	9024.1	11799.8
62.5°	9096.7	9021.0	9639.2	8197.7	5059.3	4236.1	4198.2	4349.6	5327.4	8607.8	11068.1
65°	6611.2	6705.8	7153.7	6362.0	3797.6	3233.0	3176.3	3624.2	4311.8	6898.2	8446.9
67.5°	4037.4	4220.3	4261.3	3923.8	2577.0	2047.1	1965.1	2372.0	3113.2	4463.2	4952.1
70°	1864.1	2084.9	2293.1	2141.7	1491.9	842.2	794.9	996.7	1570.8	2567.5	2627.4
72.5°	564.6	567.8	794.9	829.6	482.6	189.3	167.2	220.8	533.1	848.5	892.6
75°	41.0	44.2	107.2	123.0	91.5	47.3	50.5	59.9	113.6	189.3	141.9
77.5°	3.2	3.2	3.2	15.8	28.4	31.5	41.0	47.3	59.9	69.4	63.1
80°	3.2	0.0	3.2	12.6	22.1	31.5	37.9	44.2	47.3	53.6	47.3
82.5°	0.0	0.0	0.0	9.5	22.1	31.5	34.7	47.3	53.6	63.1	53.6
85°	0.0	0.0	0.0	9.5	22.1	34.7	31.5	15.8	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°	8131.5	8131.5	8131.5	8131.5	8131.5	8131.5	8131.5	8131.5	8131.5	8131.5	8131.5
2.5°	8598.3	8475.3	8194.6	8052.6	7718.3	7671.0	7343.0	7289.3	7178.9	7119.0	6973.9
5°	7866.6	7718.3	7260.9	6876.1	6428.2	6116.0	5876.3	5658.6	5532.5	5415.7	5469.4
7.5°	7270.4	6838.3	6330.5	5687.0	5169.7	4835.4	4469.5	4169.8	3993.2	3873.3	3901.7
10°	6645.9	6365.2	5658.6	4936.3	4311.8	4075.2	3788.2	3557.9	3308.7	3094.3	2993.3
12.5°	6450.3	6034.0	5147.6	4412.7	3939.6	3709.3	3381.3	3116.3	2797.8	2536.0	2444.5
15°	6485.0	6084.4	5008.9	4223.5	3665.2	3267.7	2876.6	2548.6	2198.5	2015.5	1920.9
17.5°	7049.6	6355.7	5100.3	4024.7	3283.5	2731.5	2248.9	1832.6	1570.8	1381.5	1340.5
20°	7743.5	6942.4	5295.9	3879.7	2971.2	2173.2	1643.3	1283.8	1066.1	1034.6	1025.1
22.5°	8759.2	7901.2	5715.4	3781.9	2589.6	1693.8	1126.0	933.6	873.7	867.4	870.6
25°	10178.6	9103.0	6172.8	3699.9	2302.6	1305.8	921.0	791.7	772.8	763.3	779.1
27.5°	10793.6	9828.5	6415.6	3523.2	2040.8	1176.5	908.4	785.4	731.8	716.0	725.5
30°	11553.8	10311.1	6797.3	3220.4	1656.0	968.3	848.5	854.8	829.6	750.7	725.5
32.5°	12563.1	10913.5	6989.7	3005.9	1479.3	801.2	621.4	570.9	637.1	649.8	671.8
35°	13209.8	11525.4	7087.5	2879.8	1387.8	684.5	526.7	479.4	463.7	466.8	479.4
37.5°	14411.5	12351.8	7210.5	2747.3	1318.5	596.1	476.3	432.1	410.0	410.0	422.7
40°	15130.7	13007.9	7377.7	2674.8	1249.1	542.5	432.1	394.3	375.3	375.3	381.7
42.5°	15310.4	13332.8	7320.9	2649.5	1170.2	529.9	394.3	365.9	343.8	340.7	337.5
45°	15632.2	13828.0	7330.3	2621.1	1088.2	482.6	372.2	340.7	309.1	306.0	302.8
47.5°	15985.4	14184.4	7349.3	2510.7	1009.3	403.7	388.0	315.4	277.6	271.3	271.3
50°	15682.6	14468.3	7513.3	2400.3	908.4	328.0	381.7	296.5	246.0	236.6	239.7
52.5°	15720.5	14802.6	7860.2	2245.8	782.2	261.8	309.1	280.7	223.9	208.2	211.3
55°	15114.9	14449.3	7907.6	2081.8	611.9	201.9	236.6	246.0	189.3	182.9	182.9
57.5°	13011.0	12235.1	6977.1	1687.5	403.7	167.2	170.3	214.5	164.0	157.7	160.9
60°	11134.3	9822.2	5614.5	1113.4	252.3	132.5	123.0	217.6	145.1	141.9	151.4
62.5°	10150.2	8071.6	4258.2	690.8	173.5	100.9	85.2	176.6	126.2	126.2	138.8
65°	7333.5	5422.1	2476.0	362.7	123.0	78.9	63.1	100.9	104.1	107.2	113.6
67.5°	4542.0	2737.8	1044.0	176.6	82.0	53.6	41.0	63.1	69.4	69.4	75.7
70°	2242.6	1091.4	347.0	100.9	63.1	44.2	28.4	34.7	34.7	31.5	34.7
72.5°	693.9	328.0	88.3	63.1	44.2	28.4	15.8	12.6	6.3	0.0	3.2
75°	78.9	63.1	56.8	44.2	28.4	12.6	3.2	0.0	0.0	0.0	0.0
77.5°	47.3	53.6	53.6	44.2	28.4	9.5	0.0	0.0	0.0	0.0	0.0
80°	37.9	41.0	44.2	41.0	25.2	12.6	0.0	0.0	0.0	0.0	0.0
82.5°	47.3	53.6	59.9	53.6	34.7	15.8	6.3	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	9.5	3.2	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°	8131.5	8131.5	8131.5	8131.5	8131.5	8131.5	8131.5	8131.5	8131.5	8131.5	8131.5
2.5°	6914.0	6844.6	6942.4	6797.3	6794.1	6797.3	6756.3	6718.4	6778.4	6939.2	6955.0
5°	5277.0	5425.2	5472.5	5627.1	5541.9	5415.7	5441.0	5355.8	5564.0	5655.5	5582.9
7.5°	3841.8	3832.3	4150.9	4169.8	4210.8	4214.0	4207.7	4040.5	3870.2	3908.0	4021.6
10°	2980.7	2819.8	2974.4	2958.6	3059.6	3031.2	3072.2	2892.4	2952.3	2952.3	3024.9
12.5°	2428.7	2258.4	2230.0	2189.0	2230.0	2245.8	2261.6	2226.9	2327.8	2375.1	2425.6
15°	1854.7	1760.0	1734.8	1656.0	1668.6	1712.7	1750.6	1766.3	1734.8	1807.4	1813.7
17.5°	1346.8	1343.7	1359.5	1356.3	1343.7	1334.2	1331.1	1290.1	1277.4	1283.8	1309.0
20°	1022.0	1047.2	1100.8	1154.4	1182.8	1148.1	1100.8	1031.4	1003.0	1009.3	1012.5
22.5°	873.7	911.6	984.1	1044.0	1072.4	1009.3	924.2	864.2	851.6	848.5	845.3
25°	791.7	835.9	889.5	908.4	905.3	867.4	804.3	779.1	772.8	766.5	738.1
27.5°	747.5	763.3	772.8	794.9	804.3	779.1	763.3	725.5	719.2	719.2	700.2
30°	722.3	712.8	725.5	709.7	722.3	703.4	706.5	706.5	690.8	697.1	697.1
32.5°	671.8	675.0	675.0	643.5	652.9	630.8	652.9	671.8	675.0	678.2	703.4
35°	492.1	548.8	577.2	577.2	586.7	570.9	567.8	545.7	517.3	488.9	476.3
37.5°	432.1	454.2	492.1	514.1	529.9	517.3	488.9	454.2	438.4	425.8	413.2
40°	384.8	403.7	429.0	454.2	485.7	470.0	425.8	410.0	391.1	391.1	378.5
42.5°	347.0	356.4	372.2	410.0	444.7	413.2	381.7	369.0	359.6	356.4	353.3
45°	312.3	315.4	331.2	362.7	403.7	372.2	340.7	324.9	328.0	331.2	328.0
47.5°	280.7	287.0	296.5	334.3	359.6	343.8	309.1	299.6	299.6	299.6	302.8
50°	242.9	258.6	277.6	309.1	328.0	318.6	290.2	277.6	271.3	271.3	274.4
52.5°	217.6	230.3	255.5	293.3	318.6	302.8	274.4	255.5	242.9	239.7	246.0
55°	189.3	211.3	252.3	280.7	315.4	299.6	268.1	246.0	223.9	220.8	220.8
57.5°	170.3	205.0	242.9	277.6	306.0	293.3	268.1	239.7	211.3	208.2	208.2
60°	160.9	198.7	236.6	268.1	306.0	287.0	265.0	233.4	201.9	201.9	198.7
62.5°	151.4	186.1	223.9	255.5	293.3	277.6	255.5	223.9	192.4	192.4	186.1
65°	126.2	160.9	186.1	214.5	255.5	239.7	217.6	195.6	170.3	164.0	167.2
67.5°	88.3	110.4	135.6	164.0	189.3	182.9	173.5	157.7	135.6	132.5	129.3
70°	44.2	59.9	82.0	110.4	132.5	126.2	119.9	107.2	94.6	91.5	91.5
72.5°	6.3	18.9	34.7	50.5	69.4	72.5	69.4	66.2	63.1	59.9	63.1
75°	0.0	0.0	0.0	12.6	28.4	34.7	41.0	47.3	47.3	41.0	50.5
77.5°	0.0	0.0	0.0	0.0	3.2	15.8	31.5	41.0	50.5	44.2	59.9
80°	0.0	0.0	0.0	0.0	3.2	18.9	31.5	44.2	50.5	44.2	63.1
82.5°	0.0	0.0	0.0	0.0	3.2	22.1	31.5	41.0	47.3	44.2	56.8
85°	0.0	0.0	0.0	0.0	9.5	18.9	12.6	6.3	3.2	3.2	9.5
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°	8131.5	8131.5	8131.5	8131.5	8131.5	8131.5	8131.5	8131.5	8131.5	8131.5
2.5°	7043.3	7267.3	7507.0	7598.4	7882.3	8096.8	8241.9	8554.2	8601.5	8604.6
5°	5658.6	5772.2	6182.2	6374.6	6797.3	7125.3	7475.4	7980.1	8317.6	8342.8
7.5°	4021.6	4337.0	4510.5	5012.0	5532.5	6046.6	6567.0	7153.7	7544.8	7554.3
10°	3236.2	3441.2	3750.3	4125.7	4564.1	5087.7	5781.6	6462.9	6860.4	6958.1
12.5°	2605.4	2964.9	3318.2	3706.2	4040.5	4434.8	5182.3	6090.7	6418.8	6614.3
15°	2006.1	2334.1	2750.5	3204.7	3583.2	4109.9	4961.5	5999.3	6551.3	6617.5
17.5°	1479.3	1772.7	2157.5	2586.4	3154.2	3901.7	4999.4	6462.9	6983.4	7093.8
20°	1063.0	1233.3	1536.1	2034.5	2756.8	3658.9	5037.2	6932.9	7724.6	7913.9
22.5°	842.2	911.6	1110.3	1551.9	2312.0	3403.4	5305.3	7831.9	8743.4	9017.8
25°	731.8	769.6	864.2	1223.8	2031.3	3378.1	5734.3	8910.6	10099.7	10298.4
27.5°	706.5	712.8	794.9	1122.9	1879.9	3211.0	5898.3	9677.1	10945.0	11146.9
30°	744.4	845.3	851.6	949.4	1599.2	2879.8	5983.5	10418.3	11661.0	11809.3
32.5°	643.5	611.9	634.0	734.9	1406.8	2687.4	6144.4	11064.9	12478.0	12582.1
35°	447.9	470.0	520.4	637.1	1230.1	2485.5	6185.4	11777.7	13253.9	13361.2
37.5°	413.2	425.8	466.8	542.5	1081.9	2372.0	6128.6	12298.2	14058.2	14206.5
40°	384.8	400.6	422.7	492.1	971.5	2245.8	6049.7	12768.2	14550.3	14916.2
42.5°	362.7	375.3	394.3	470.0	876.9	2119.6	5939.3	13430.5	14991.9	15310.4
45°	337.5	356.4	378.5	457.4	823.2	2034.5	5857.3	13389.5	15247.4	15417.7
47.5°	312.3	343.8	369.0	425.8	807.5	1993.4	5892.0	13235.0	15039.2	14922.5
50°	287.0	328.0	372.2	353.3	769.6	1911.4	5933.0	13446.3	14544.0	14521.9
52.5°	265.0	312.3	347.0	290.2	684.5	1832.6	6330.5	13723.9	14894.1	14600.8
55°	233.4	280.7	277.6	233.4	555.1	1772.7	6642.7	13730.2	14657.5	14767.9
57.5°	211.3	249.2	217.6	195.6	410.0	1482.5	6134.9	11512.8	12547.4	12742.9
60°	195.6	242.9	164.0	154.6	268.1	1069.3	5355.8	8916.9	9973.6	10342.6
62.5°	179.8	230.3	129.3	126.2	186.1	760.2	4403.3	7462.8	8595.2	9096.7
65°	157.7	164.0	104.1	97.8	132.5	410.0	2681.1	5138.2	6425.1	6611.2
67.5°	129.3	126.2	85.2	78.9	88.3	198.7	1182.8	2573.8	3725.1	4037.4
70°	104.1	104.1	72.5	63.1	63.1	91.5	309.1	1025.1	1684.3	1864.1
72.5°	75.7	78.9	56.8	50.5	47.3	44.2	50.5	205.0	441.6	564.6
75°	66.2	69.4	56.8	44.2	34.7	28.4	22.1	18.9	25.2	41.0
77.5°	72.5	72.5	59.9	41.0	31.5	22.1	12.6	6.3	6.3	3.2
80°	91.5	94.6	78.9	53.6	37.9	25.2	15.8	6.3	3.2	3.2
82.5°	97.8	107.2	88.3	66.2	47.3	28.4	15.8	3.2	0.0	0.0
85°	25.2	41.0	69.4	59.9	47.3	28.4	15.8	3.2	0.0	0.0
87.5°	0.0	3.2	9.5	9.5	12.6	12.6	9.5	3.2	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)