

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: P455800

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-730-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25005 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

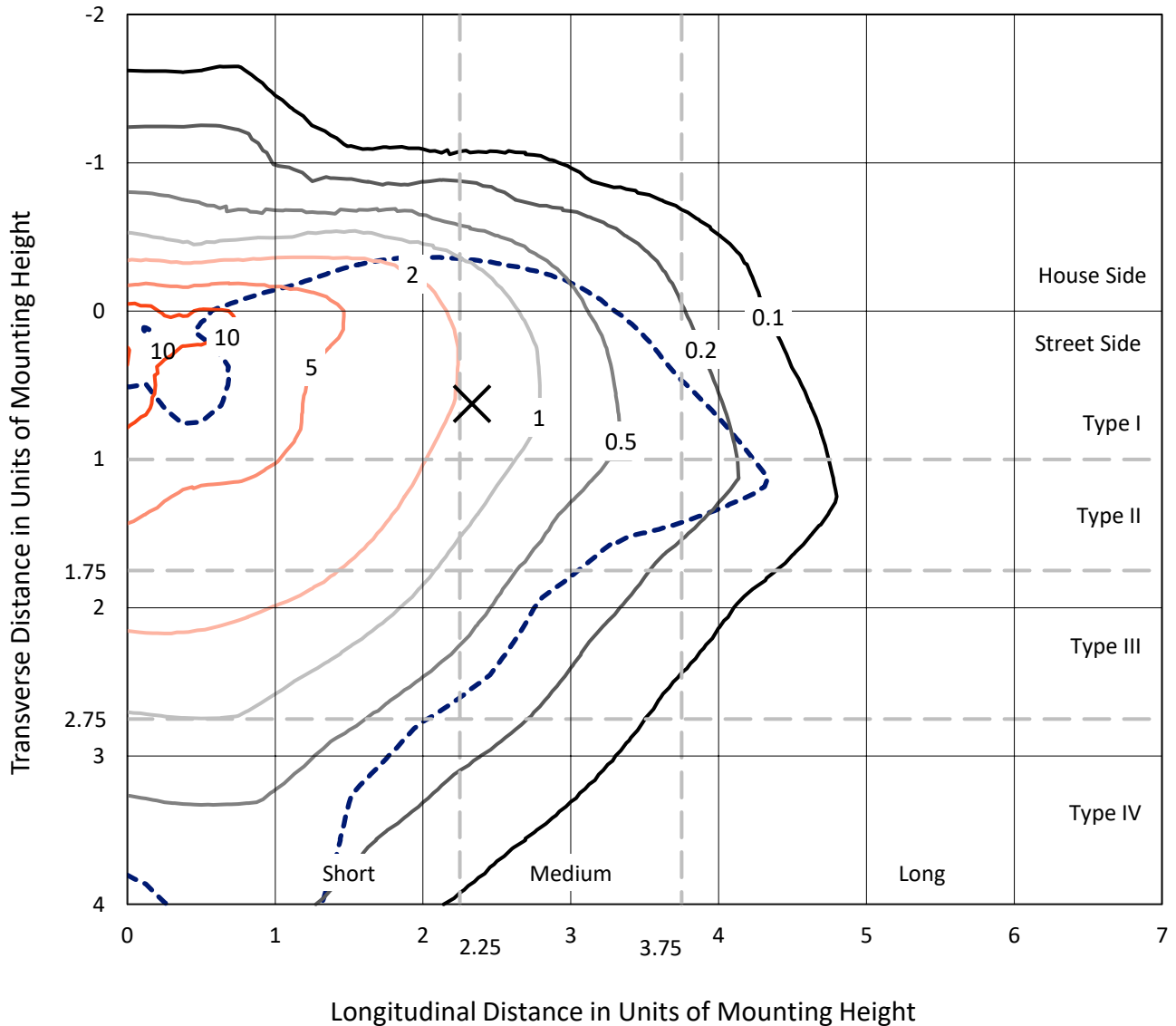
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

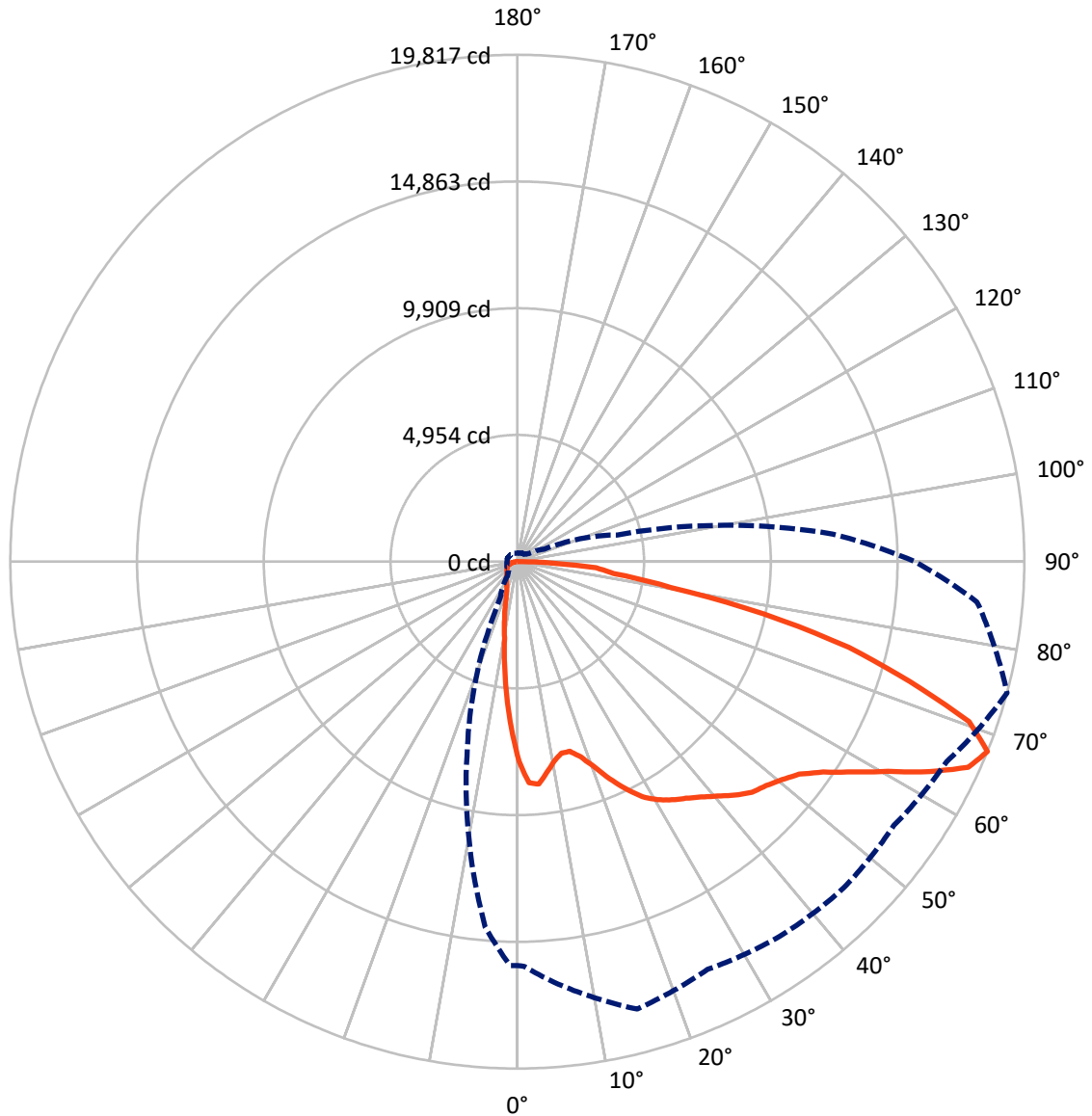
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4226.4	0.0	4226.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	20778.6	0.0	20778.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	25005.0	0.0	25005.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.5	2.4
10°-20°	1235.7	4.9
20°-30°	1778.3	7.1
30°-40°	2561.2	10.2
40°-50°	3597.8	14.4
50°-60°	5017.6	20.1
60°-70°	5965.6	23.9
70°-80°	3513.4	14.1
80°-90°	743.0	3.0
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°	25005.0	100.0
0°-180°	25005.0	100.0

Coefficient of Utilization



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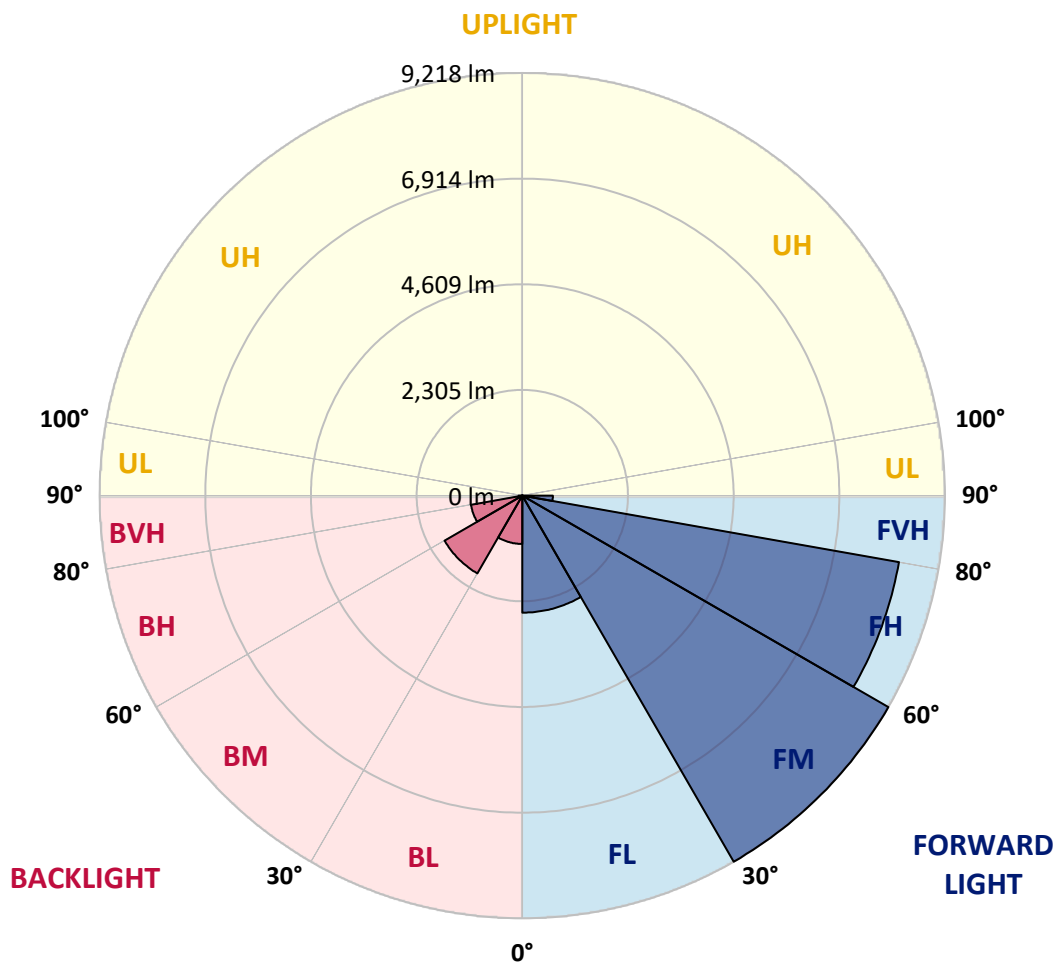
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2552.3	10.2			
FM	(30°-60°)	9218.4	36.9			
FH	(60°-80°)	8341.8	33.4			G4/12000
FVH	(80°-90°)	666.1	2.7			G4/750
BL	(0°-30°)	1054.2	4.2	B3/2500		
BM	(30°-60°)	1958.1	7.8	B2/2500		
BH	(60°-80°)	1137.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	76.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2
2.5°	8423.1	8434.3	8506.5	8716.5	8860.8	8913.7	8950.6	8881.7	8814.3	8650.8	8403.8
5°	8397.4	8463.2	8650.8	9122.2	9494.2	9654.6	9702.7	9495.8	9154.3	8734.2	8229.1
7.5°	7906.8	7995.0	8283.6	9074.1	9729.9	10105.1	10055.4	9681.8	9066.1	8317.2	7611.7
10°	7324.7	7422.5	7770.5	8726.1	9571.2	10087.5	10087.5	9632.1	8814.3	7924.4	7111.4
12.5°	6862.9	6965.5	7363.2	8368.6	9240.9	9729.9	9811.7	9420.4	8633.1	7675.9	6782.7
15°	6710.6	6810.0	7238.1	8152.1	8891.3	9189.5	9216.8	9088.5	8544.9	7693.5	6768.3
17.5°	6899.8	7028.1	7461.0	8216.2	8570.6	8588.2	8609.1	8710.1	8554.6	8015.8	7060.1
20°	7446.6	7584.5	8036.6	8423.1	8290.0	8107.2	8118.4	8378.2	8668.4	8548.2	7757.6
22.5°	8235.5	8355.7	8819.1	8787.1	8171.3	7794.5	7715.9	8078.3	8836.8	9212.0	8500.0
25°	9086.9	9228.0	9760.4	9327.4	8205.0	7608.5	7558.8	7901.9	9011.6	9832.5	9357.9
27.5°	10061.8	10199.7	10619.8	9872.6	8381.4	7594.1	7534.8	7885.9	9168.7	10406.6	10177.3
30°	10786.6	10913.3	11198.7	10331.2	8597.9	7690.3	7616.5	8012.6	9303.4	10799.4	10975.8
32.5°	11355.8	11487.3	11642.9	10616.6	8883.3	7865.1	7728.8	8243.5	9479.8	11099.3	11567.5
35°	11949.1	12104.7	12093.4	10870.0	9149.5	8067.1	7934.0	8577.0	9757.2	11360.7	12317.9
37.5°	12701.2	12763.7	12683.5	11097.7	9468.5	8431.1	8357.3	9072.5	10151.6	11676.5	13195.0
40°	13464.4	13589.5	13177.4	11373.5	9856.6	9115.8	9107.8	9805.3	10619.8	12046.9	14044.9
42.5°	14118.6	14224.5	13639.2	11614.0	10326.4	9951.2	10012.1	10788.2	11234.0	12476.7	14728.0
45°	14610.9	14705.5	14065.7	11846.5	10945.4	10916.5	11275.7	11841.7	12008.5	12863.1	15128.8
47.5°	15029.4	15120.8	14362.4	12199.3	11710.2	12069.4	12694.7	12940.1	12670.7	13084.4	15577.8
50°	15382.2	15409.4	14566.0	12619.4	12659.5	13482.1	14088.2	14246.9	13324.9	13401.9	15967.5
52.5°	15749.4	15714.1	14917.2	13148.5	13685.7	14822.6	15263.5	15428.7	13951.9	13793.1	16535.1
55°	16572.0	16605.6	15704.5	13815.6	14723.2	16139.0	16719.5	16560.7	14646.2	14513.1	17256.6
57.5°	17566.1	17537.3	16812.5	14859.4	15779.8	17364.1	17797.0	17542.1	15573.0	15502.4	17987.8
60°	17952.6	17991.0	17739.3	15981.9	16822.1	18436.8	18879.4	18483.3	16684.2	16652.1	18539.4
62.5°	17564.5	17781.0	17951.0	16980.9	17710.4	19225.7	19665.1	19212.9	17843.5	18076.0	18925.9
65°	16791.6	16838.1	17417.0	17827.5	18138.6	19355.6	19584.9	19344.4	18812.0	19373.2	18908.2
67.5°	15787.9	15827.9	16506.2	18104.9	17587.0	17880.4	18040.8	17970.2	18512.2	19817.4	18037.5
70°	14832.2	14800.1	15516.9	17397.8	15310.0	14864.3	14997.3	14776.1	15973.9	18731.9	16329.8
72.5°	12972.2	13087.6	13857.3	15431.9	12122.3	11397.5	11687.8	11115.3	12285.9	16042.8	13254.4
75°	10161.3	10188.5	11472.9	12951.3	9144.6	8001.4	8394.2	8155.3	9410.8	13382.6	9152.7
77.5°	7036.1	6975.1	8355.7	9891.9	6521.4	5857.5	5863.9	5750.1	6571.1	9853.4	6218.3
80°	4468.9	4375.9	5230.6	6110.9	4481.7	4794.4	4637.3	4632.5	4278.1	6078.8	3760.2
82.5°	2414.8	2517.5	3304.8	3830.7	3215.0	3705.6	3396.2	3296.8	2936.0	3805.1	2405.2
85°	1100.0	1196.2	1762.2	2605.7	2442.1	2469.4	1650.0	1946.6	2429.3	3089.9	1284.4
87.5°	107.4	137.9	364.0	1229.9	833.8	657.4	245.3	473.0	610.9	1098.4	102.6
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°	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2
2.5°	8302.8	8219.4	7935.6	7701.5	7453.0	7263.8	7016.8	6851.7	6737.8	6566.2	6545.4
5°	7921.2	7717.5	7223.7	6720.2	6285.6	5958.5	5626.6	5321.9	5142.4	5086.2	5014.1
7.5°	7278.2	6935.1	6300.1	5722.8	5224.1	4736.7	4361.5	4095.3	3917.3	3813.1	3688.0
10°	6749.0	6351.4	5578.5	4871.4	4460.9	4157.8	3827.5	3542.1	3322.4	3134.8	3032.2
12.5°	6393.1	5944.1	5075.0	4501.0	4183.5	3861.2	3474.7	3154.0	2830.1	2616.9	2525.5
15°	6285.6	5811.0	4919.5	4316.6	3861.2	3439.5	3006.5	2588.0	2267.3	2065.3	1997.9
17.5°	6548.6	5974.6	4917.9	4071.2	3482.8	2979.3	2424.5	2031.6	1702.9	1552.2	1504.1
20°	7039.3	6288.8	4932.3	3829.1	3072.3	2363.5	1763.8	1441.5	1284.4	1220.2	1196.2
22.5°	7724.0	6768.3	4975.6	3590.2	2623.3	1815.1	1321.3	1157.7	1101.6	1090.4	1085.6
25°	8567.4	7361.6	5121.5	3375.3	2244.9	1385.4	1104.8	1031.0	999.0	987.7	986.1
27.5°	9343.5	8128.0	5297.9	3190.9	1879.3	1194.6	999.0	936.4	904.4	902.8	906.0
30°	10044.2	8769.4	5445.4	2984.1	1601.9	1061.5	930.0	867.5	837.0	835.4	845.0
32.5°	10650.3	9297.0	5554.5	2780.4	1447.9	979.7	867.5	800.1	774.5	769.7	774.5
35°	11298.1	9822.9	5504.7	2621.7	1359.8	912.4	821.0	755.2	724.8	710.3	710.3
37.5°	12037.3	10364.9	5419.8	2490.2	1319.7	856.3	780.9	716.8	686.3	671.9	670.3
40°	12843.9	10906.9	5302.7	2373.2	1279.6	822.6	753.6	686.3	649.4	635.0	631.8
42.5°	13555.8	11370.3	5206.5	2296.2	1213.8	829.0	729.6	663.8	617.3	598.1	596.5
45°	14174.8	11836.9	5188.9	2251.3	1159.3	819.4	723.2	646.2	591.7	570.8	567.6
47.5°	14659.0	12322.7	5289.9	2225.6	1100.0	768.1	764.9	635.0	569.2	546.8	543.6
50°	15249.1	13012.2	5520.8	2172.7	1045.5	720.0	808.2	633.4	551.6	522.7	514.7
52.5°	16034.8	13910.2	5833.5	2078.1	966.9	675.1	771.3	633.4	530.8	501.9	492.3
55°	17223.0	15055.1	6139.7	1945.0	856.3	615.7	695.9	614.1	500.3	474.6	468.2
57.5°	18010.3	15892.1	6335.3	1760.6	718.4	572.4	599.7	583.7	469.8	442.6	442.6
60°	18050.4	16116.6	6242.3	1528.1	631.8	532.4	521.1	588.5	442.6	413.7	410.5
62.5°	17588.6	15566.6	5758.1	1319.7	585.3	489.1	471.4	516.3	415.3	386.4	381.6
65°	16867.0	14163.5	4917.9	1220.2	559.6	450.6	424.9	423.3	386.4	359.2	352.8
67.5°	15540.9	12377.3	4040.8	1162.5	546.8	407.3	383.2	375.2	352.8	330.3	327.1
70°	13586.3	10366.5	3240.6	1138.5	540.4	362.4	343.1	333.5	314.3	296.6	295.0
72.5°	10570.1	8408.6	2674.6	1122.4	537.2	320.7	299.9	287.0	275.8	259.8	259.8
75°	7592.5	6186.2	2041.2	1011.8	497.1	275.8	253.3	245.3	229.3	216.5	219.7
77.5°	4786.4	4165.8	1343.7	744.0	384.8	221.3	202.0	197.2	184.4	166.8	178.0
80°	3232.6	2929.6	784.1	468.2	242.1	162.0	155.5	153.9	139.5	120.3	121.9
82.5°	2200.0	2158.3	407.3	266.2	139.5	94.6	91.4	94.6	78.6	64.1	64.1
85°	859.5	1173.7	192.4	104.2	44.9	14.4	20.8	22.4	12.8	6.4	8.0
87.5°	16.0	120.3	4.8	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°	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2
2.5°	6513.3	6498.9	6523.0	6420.3	6441.2	6479.7	6498.9	6510.1	6668.9	6632.0	6733.0
5°	5081.4	5067.0	5160.0	5172.8	5220.9	5211.3	5257.8	5269.0	5326.8	5347.6	5488.7
7.5°	3696.0	3758.6	3864.4	3918.9	4000.7	4026.3	4002.3	4061.6	3941.4	4027.9	4053.6
10°	2969.6	2894.3	2849.4	2974.5	2990.5	3109.1	3061.0	3022.6	3093.1	3096.3	3163.7
12.5°	2472.6	2310.6	2203.2	2238.5	2276.9	2328.3	2336.3	2413.2	2464.5	2512.7	2552.7
15°	1938.6	1882.5	1784.7	1736.6	1791.1	1811.9	1861.6	1925.8	1980.3	1994.7	2049.2
17.5°	1488.0	1497.7	1481.6	1452.8	1486.4	1502.5	1505.7	1507.3	1521.7	1512.1	1592.3
20°	1197.8	1231.5	1271.6	1278.0	1289.2	1297.2	1282.8	1228.3	1229.9	1263.5	1289.2
22.5°	1084.0	1090.4	1135.3	1149.7	1185.0	1170.5	1128.8	1103.2	1100.0	1108.0	1120.8
25°	994.2	1003.8	1035.8	1058.3	1085.6	1059.9	1029.4	1005.4	1002.2	1010.2	1023.0
27.5°	914.0	928.4	957.3	979.7	1005.4	981.3	952.5	931.6	930.0	928.4	936.4
30°	849.8	865.9	886.7	912.4	930.0	909.2	881.9	870.7	869.1	865.9	869.1
32.5°	785.7	811.4	832.2	845.0	862.7	846.6	825.8	819.4	808.2	798.5	793.7
35°	713.5	740.8	772.9	788.9	806.6	790.5	776.1	748.8	729.6	728.0	731.2
37.5°	671.9	683.1	708.7	736.0	753.6	745.6	718.4	691.1	686.3	686.3	689.5
40°	635.0	639.8	651.0	686.3	718.4	694.3	660.6	652.6	652.6	651.0	652.6
42.5°	598.1	602.9	602.9	630.2	681.5	643.0	617.3	617.3	617.3	618.9	623.8
45°	564.4	566.0	564.4	583.7	631.8	599.7	582.1	586.9	590.1	593.3	596.5
47.5°	535.6	537.2	535.6	551.6	575.6	562.8	553.2	559.6	566.0	570.8	574.0
50°	509.9	508.3	511.5	521.1	532.4	535.6	529.1	538.8	542.0	548.4	556.4
52.5°	487.5	485.9	489.1	493.9	509.9	509.9	509.9	517.9	524.3	530.8	542.0
55°	461.8	463.4	468.2	474.6	495.5	492.3	493.9	500.3	506.7	516.3	522.7
57.5°	437.7	441.0	447.4	457.0	477.8	476.2	477.8	481.0	489.1	493.9	500.3
60°	410.5	416.9	424.9	431.3	452.2	450.6	458.6	465.0	469.8	469.8	473.0
62.5°	383.2	392.9	400.9	405.7	428.1	429.7	441.0	445.8	449.0	445.8	450.6
65°	356.0	370.4	373.6	380.0	402.5	404.1	416.9	428.1	424.9	421.7	429.7
67.5°	328.7	346.4	344.7	352.8	375.2	378.4	389.6	408.9	402.5	399.3	405.7
70°	298.2	311.1	312.7	317.5	348.0	343.1	360.8	378.4	373.6	375.2	375.2
72.5°	264.6	275.8	275.8	285.4	317.5	309.5	323.9	343.1	343.1	341.5	341.5
75°	224.5	230.9	237.3	251.7	285.4	275.8	285.4	303.1	306.3	303.1	303.1
77.5°	181.2	190.8	194.0	213.3	237.3	235.7	245.3	253.3	259.8	256.6	256.6
80°	128.3	137.9	150.7	171.6	186.0	190.8	195.6	202.0	205.2	205.2	208.5
82.5°	72.2	86.6	97.8	118.7	125.1	149.1	147.5	152.3	147.5	129.9	144.3
85°	16.0	30.5	43.3	54.5	62.5	86.6	91.4	102.6	85.0	78.6	78.6
87.5°	0.0	0.0	0.0	0.0	0.0	12.8	25.7	35.3	30.5	25.7	25.7
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°	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2
2.5°	6818.0	6957.5	7125.9	7416.1	7619.7	7839.4	8060.7	8296.4	8358.9	8423.1
5°	5527.2	5801.4	5950.5	6340.2	6749.0	7268.6	7693.5	8158.5	8352.5	8397.4
7.5°	4186.7	4372.7	4763.9	5158.4	5665.1	6210.3	6861.3	7586.1	7812.2	7906.8
10°	3319.2	3572.6	3915.7	4339.0	4783.2	5370.1	6104.4	6951.1	7271.8	7324.7
12.5°	2825.3	3107.5	3481.2	3928.5	4348.6	4791.2	5532.0	6405.9	6749.0	6862.9
15°	2259.3	2600.8	3032.2	3503.6	3960.6	4444.8	5195.3	6181.4	6577.5	6710.6
17.5°	1775.1	2050.9	2517.5	3029.0	3570.9	4183.5	5124.7	6288.8	6776.3	6899.8
20°	1358.1	1555.4	1948.2	2488.6	3123.6	3925.3	5142.4	6694.5	7278.2	7446.6
22.5°	1173.7	1274.8	1513.7	2028.4	2738.7	3700.8	5214.5	7250.9	7954.9	8235.5
25°	1063.1	1116.0	1250.7	1587.4	2371.5	3482.8	5379.7	7999.8	8900.9	9086.9
27.5°	968.5	1007.0	1090.4	1332.5	2038.0	3280.7	5572.1	8830.4	9784.4	10061.8
30°	878.7	930.0	1008.6	1183.4	1824.8	3096.3	5814.2	9503.8	10528.4	10786.6
32.5°	809.8	861.1	933.2	1079.1	1643.6	2902.3	5958.5	10095.5	11136.2	11355.8
35°	753.6	796.9	872.3	995.8	1505.7	2754.8	5929.7	10565.3	11724.6	11949.1
37.5°	713.5	750.4	825.8	917.2	1401.4	2600.8	5915.2	11185.9	12441.4	12701.2
40°	676.7	715.2	784.1	865.9	1297.2	2419.7	5923.3	11801.6	13204.7	13464.4
42.5°	647.8	691.1	747.2	851.4	1189.8	2273.7	5923.3	12337.2	13868.5	14118.6
45°	623.8	670.3	724.8	849.8	1104.8	2163.1	5883.2	12797.4	14397.6	14610.9
47.5°	602.9	654.2	732.8	821.0	1084.0	2082.9	5847.9	13166.2	14829.0	15029.4
50°	588.5	649.4	779.3	787.3	1090.4	2058.9	6017.9	13631.2	15209.0	15382.2
52.5°	577.3	651.0	777.7	737.6	1079.1	2074.9	6372.2	14357.6	15736.6	15749.4
55°	554.8	649.4	737.6	681.5	1032.6	2102.2	6827.6	15412.6	16562.3	16572.0
57.5°	532.4	631.8	684.7	633.4	938.0	2102.2	7376.0	16411.6	17558.1	17566.1
60°	509.9	657.4	601.3	591.7	814.6	2063.7	7954.9	16851.0	17870.8	17952.6
62.5°	487.5	662.2	537.2	554.8	724.8	1970.7	8386.2	16365.1	17447.5	17564.5
65°	461.8	534.0	495.5	516.3	678.3	1815.1	8249.9	15475.2	16652.1	16791.6
67.5°	431.3	452.2	450.6	476.2	662.2	1585.8	7531.5	14349.5	15795.9	15787.9
70°	394.5	405.7	410.5	437.7	631.8	1407.9	6276.0	12888.8	14652.6	14832.2
72.5°	356.0	365.6	370.4	394.5	601.3	1306.8	4871.4	10876.4	12691.5	12972.2
75°	314.3	320.7	327.1	348.0	569.2	1157.7	3469.9	8302.8	9720.3	10161.3
77.5°	271.0	271.0	279.0	299.9	479.4	955.7	2328.3	5823.8	6585.5	7036.1
80°	219.7	221.3	218.1	240.5	352.8	654.2	1322.9	3890.0	4382.3	4468.9
82.5°	168.4	163.6	165.2	176.4	263.0	445.8	705.5	2416.4	2462.9	2414.8
85°	105.8	105.8	102.6	115.5	168.4	232.5	384.8	1480.0	1156.1	1100.0
87.5°	43.3	35.3	40.1	46.5	80.2	94.6	150.7	304.7	117.1	107.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)