

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: P456873

Luminaire Tested: **GALN-SA8A-830-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456873
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-SA8A-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 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: 25294 lumens
Efficiency: N/A
Efficacy: 103.7 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

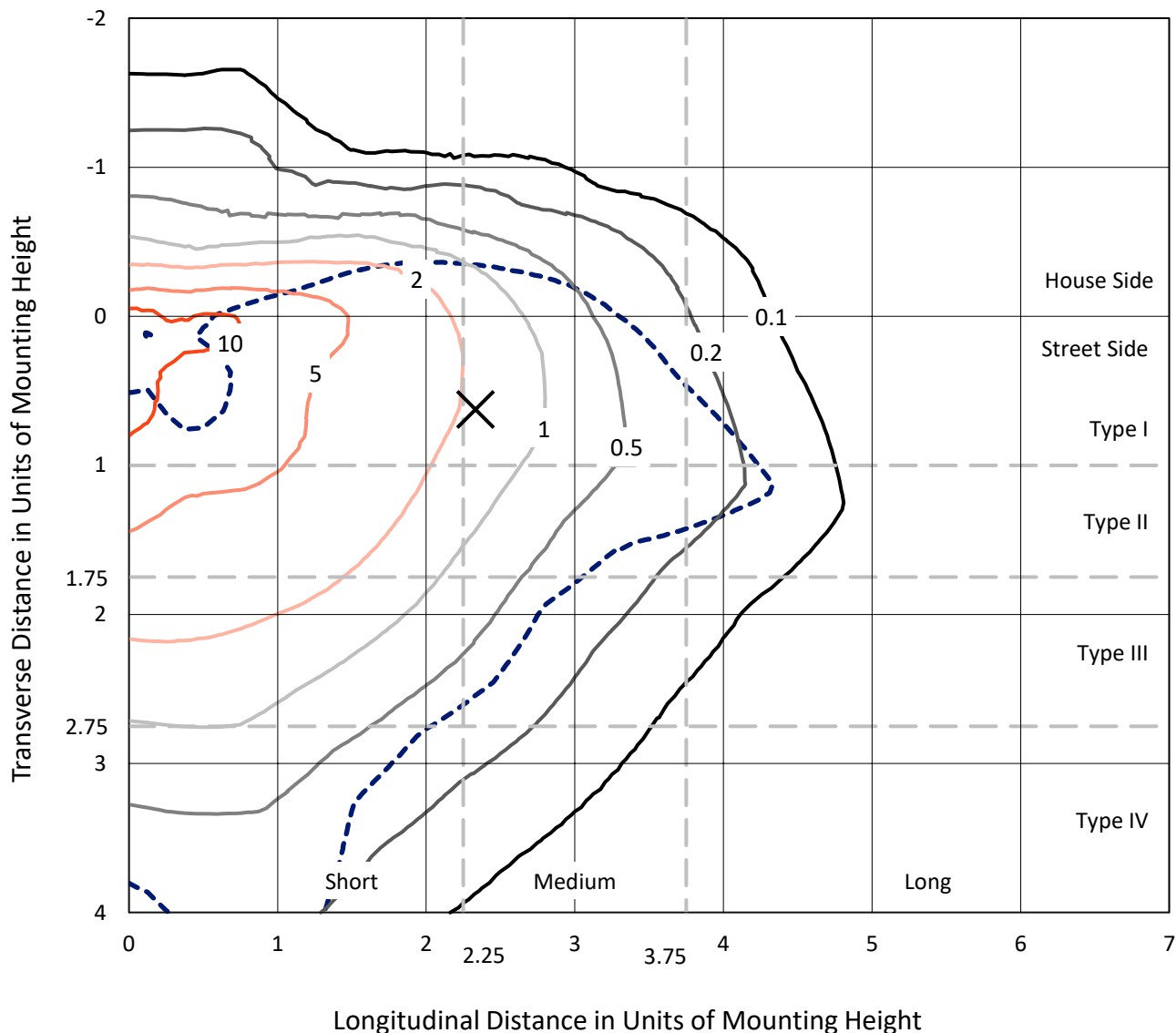
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

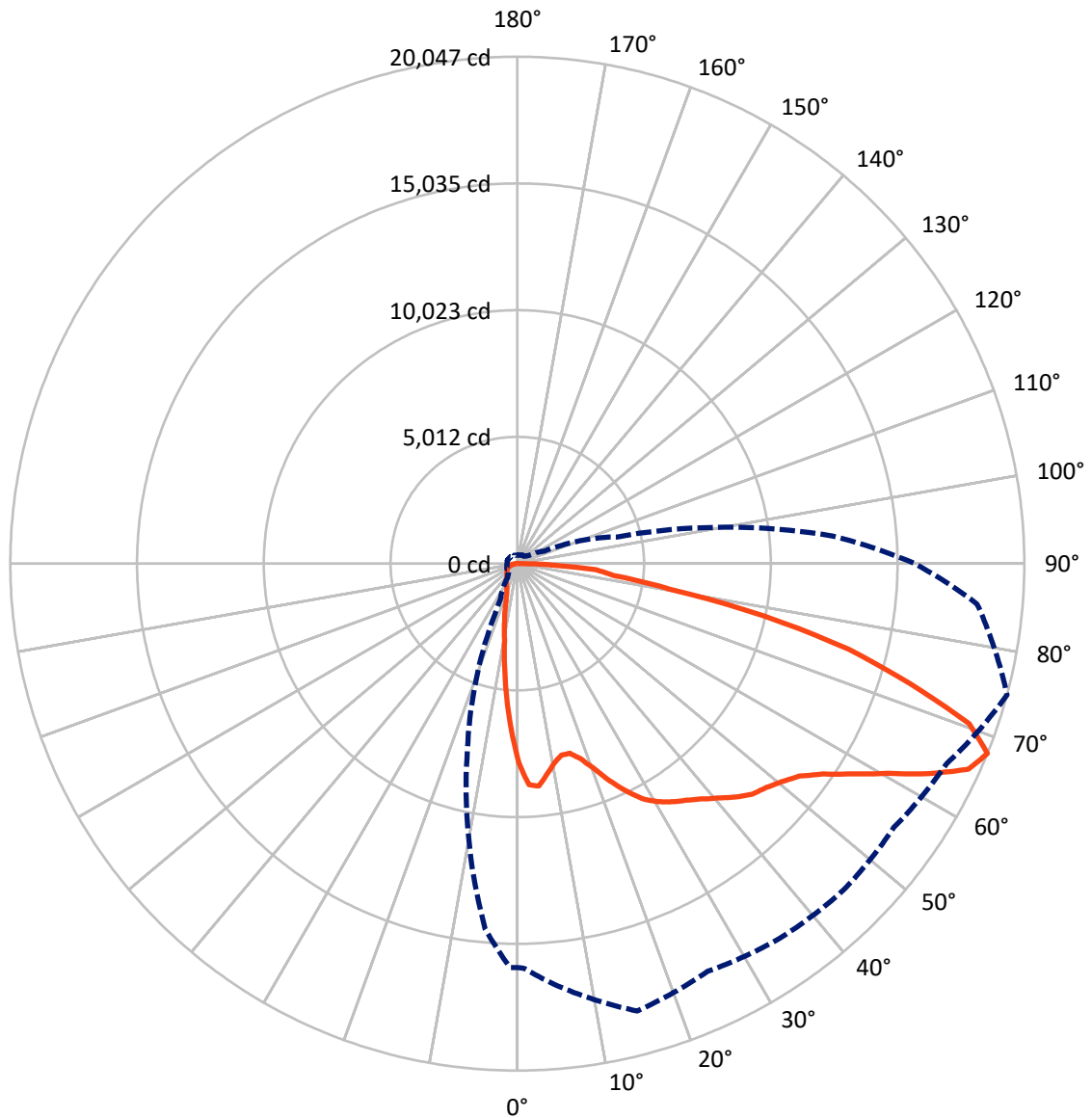
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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	4275.2	0.0	4275.2
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	21018.8	0.0	21018.8
	% Fixture	83.1	0.0	83.1
Total	Lumens	25294.0	0.0	25294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.4	2.4
10°-20°	1250.0	4.9
20°-30°	1798.8	7.1
30°-40°	2590.8	10.2
40°-50°	3639.3	14.4
50°-60°	5075.6	20.1
60°-70°	6034.5	23.9
70°-80°	3554.0	14.1
80°-90°	751.5	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°	25294.0	100.0
0°-180°	25294.0	100.0

Coefficient of Utilization



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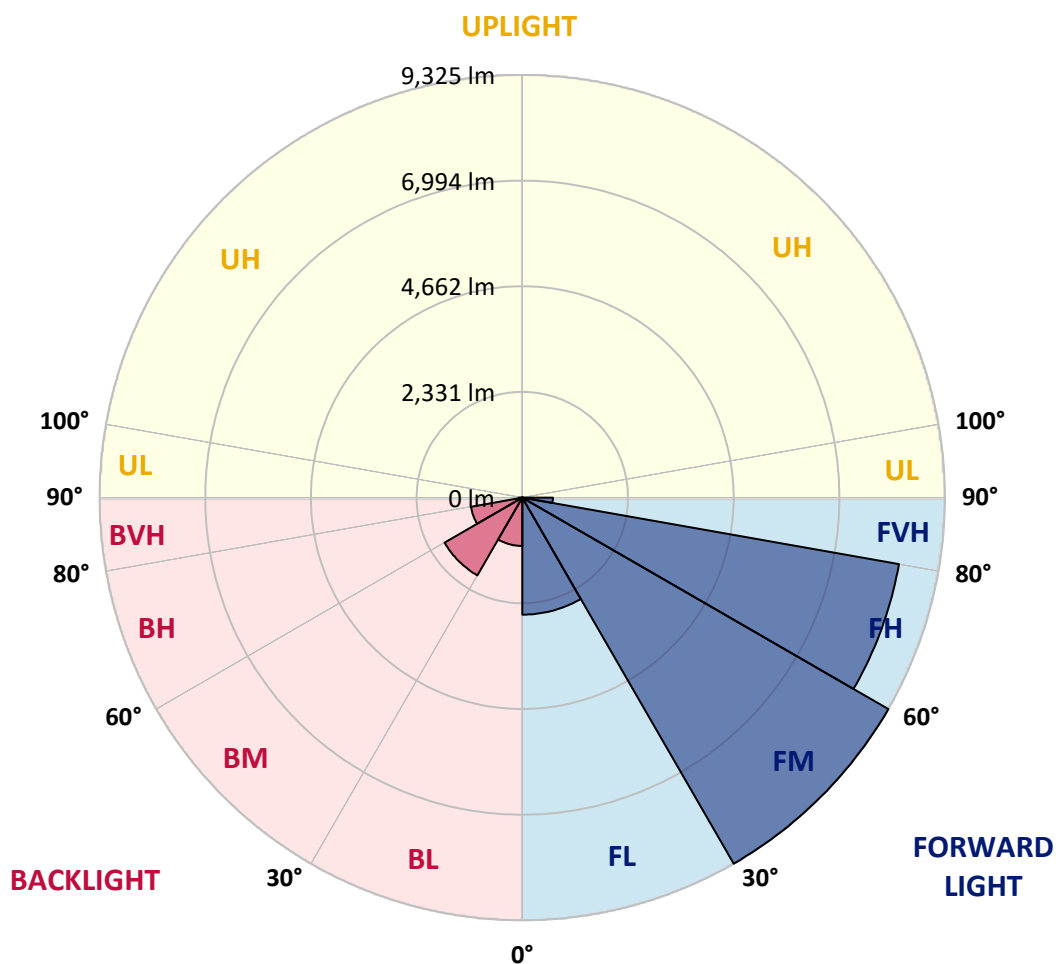
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2581.8	10.2			
FM	(30°-60°)	9325.0	36.9			
FH	(60°-80°)	8438.2	33.4			G4/12000
FVH	(80°-90°)	673.8	2.7			G4/750
BL	(0°-30°)	1066.4	4.2	B3/2500		
BM	(30°-60°)	1980.7	7.8	B2/2500		
BH	(60°-80°)	1150.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	77.7	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°	7902.4	7902.4	7902.4	7902.4	7902.4	7902.4	7902.4	7902.4	7902.4	7902.4	7902.4
2.5°	8520.4	8531.8	8604.8	8817.3	8963.2	9016.8	9054.1	8984.3	8916.2	8750.8	8501.0
5°	8494.5	8561.0	8750.8	9227.6	9603.9	9766.1	9814.8	9605.6	9260.1	8835.1	8324.2
7.5°	7998.1	8087.4	8379.3	9179.0	9842.4	10221.9	10171.6	9793.7	9170.9	8413.4	7699.7
10°	7409.4	7508.3	7860.3	8827.0	9681.8	10204.1	10204.1	9743.4	8916.2	8016.0	7193.6
12.5°	6942.2	7046.0	7448.3	8465.3	9347.7	9842.4	9925.1	9529.3	8732.9	7764.6	6861.1
15°	6788.1	6888.7	7321.8	8246.3	8994.1	9295.8	9323.3	9193.6	8643.7	7782.4	6846.5
17.5°	6979.5	7109.3	7547.2	8311.2	8669.7	8687.5	8708.6	8810.8	8653.4	8108.4	7141.7
20°	7532.6	7672.1	8129.5	8520.4	8385.8	8200.9	8212.2	8475.0	8768.6	8646.9	7847.3
22.5°	8330.7	8452.3	8921.1	8888.6	8265.8	7884.6	7805.1	8171.7	8938.9	9318.5	8598.3
25°	9191.9	9334.7	9873.2	9435.2	8299.8	7696.4	7646.2	7993.3	9115.7	9946.2	9466.1
27.5°	10178.1	10317.6	10742.6	9986.7	8478.3	7681.9	7621.8	7977.1	9274.7	10526.9	10294.9
30°	10911.3	11039.4	11328.1	10450.6	8697.2	7779.2	7704.6	8105.2	9410.9	10924.3	11102.7
32.5°	11487.1	11620.1	11777.4	10739.3	8985.9	7956.0	7818.1	8338.8	9589.3	11227.6	11701.2
35°	12087.2	12244.6	12233.2	10995.6	9255.2	8160.3	8025.7	8676.1	9869.9	11492.0	12460.3
37.5°	12848.0	12911.2	12830.1	11225.9	9578.0	8528.5	8453.9	9177.3	10269.0	11811.5	13347.5
40°	13620.0	13746.6	13329.7	11504.9	9970.5	9221.1	9213.0	9918.6	10742.6	12186.2	14207.2
42.5°	14281.8	14388.9	13796.8	11748.2	10445.8	10066.2	10127.8	10912.9	11363.8	12620.9	14898.2
45°	14779.8	14875.5	14228.3	11983.4	11071.9	11042.7	11406.0	11978.6	12147.3	13011.8	15303.7
47.5°	15203.1	15295.6	14528.4	12340.3	11845.6	12208.9	12841.5	13089.6	12817.1	13235.6	15757.8
50°	15560.0	15587.5	14734.4	12765.2	12805.8	13637.9	14251.0	14411.6	13478.9	13556.8	16152.0
52.5°	15931.4	15895.7	15089.6	13300.5	13843.9	14993.9	15439.9	15607.0	14113.1	13952.6	16726.2
55°	16763.5	16797.6	15886.0	13975.3	14893.3	16325.6	16912.7	16752.1	14815.5	14680.8	17456.1
57.5°	17769.1	17739.9	17006.8	15031.2	15962.2	17564.8	18002.7	17744.8	15753.0	15681.6	18195.7
60°	18160.1	18199.0	17944.3	16166.6	17016.5	18649.9	19097.6	18696.9	16877.0	16844.6	18753.7
62.5°	17767.5	17986.5	18158.4	17177.1	17915.1	19447.9	19892.4	19435.0	18049.8	18284.9	19144.6
65°	16985.7	17032.8	17618.3	18033.5	18348.2	19579.3	19811.3	19568.0	19029.4	19597.2	19126.8
67.5°	15970.3	16010.9	16697.0	18314.1	17790.2	18087.1	18249.3	18177.9	18726.1	20046.5	18246.0
70°	15003.6	14971.2	15696.2	17598.8	15487.0	15036.1	15170.7	14946.8	16158.5	18948.3	16518.6
72.5°	13122.1	13238.9	14017.4	15610.2	12262.4	11529.3	11822.8	11243.8	12427.9	16228.2	13407.6
75°	10278.7	10306.3	11605.5	13101.0	9250.3	8093.8	8491.2	8249.6	9519.6	13537.3	9258.4
77.5°	7117.4	7055.8	8452.3	10006.2	6596.7	5925.2	5931.7	5816.5	6647.0	9967.3	6290.2
80°	4520.5	4426.5	5291.0	6181.5	4533.5	4849.8	4690.9	4686.0	4327.5	6149.0	3803.6
82.5°	2442.8	2546.6	3343.0	3875.0	3252.1	3748.5	3435.4	3334.9	2969.9	3849.0	2433.0
85°	1112.7	1210.0	1782.6	2635.8	2470.3	2497.9	1669.1	1969.1	2457.3	3125.6	1299.2
87.5°	108.7	139.5	368.2	1244.1	843.4	665.0	248.2	478.5	618.0	1111.1	103.8
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°	7902.4	7902.4	7902.4	7902.4	7902.4	7902.4	7902.4	7902.4	7902.4	7902.4	7902.4
2.5°	8398.8	8314.4	8027.3	7790.5	7539.1	7347.7	7097.9	6930.9	6815.7	6642.1	6621.1
5°	8012.7	7806.7	7307.2	6797.9	6358.3	6027.4	5691.6	5383.5	5201.8	5145.0	5072.0
7.5°	7362.3	7015.2	6372.9	5789.0	5284.5	4791.4	4411.9	4142.6	3962.6	3857.1	3730.6
10°	6827.0	6424.8	5643.0	4927.7	4512.4	4205.9	3871.7	3583.0	3360.8	3171.0	3067.2
12.5°	6467.0	6012.8	5133.7	4553.0	4231.8	3905.8	3514.9	3190.5	2862.9	2647.1	2554.7
15°	6358.3	5878.2	4976.3	4366.5	3905.8	3479.2	3041.3	2617.9	2293.5	2089.2	2021.0
17.5°	6624.3	6043.6	4974.7	4118.3	3523.0	3013.7	2452.5	2055.1	1722.6	1570.1	1521.4
20°	7120.6	6361.5	4989.3	3873.4	3107.8	2390.8	1784.2	1458.2	1299.2	1234.4	1210.0
22.5°	7813.2	6846.5	5033.1	3631.7	2653.6	1836.1	1336.5	1171.1	1114.3	1103.0	1098.1
25°	8666.4	7446.7	5180.7	3414.3	2270.8	1401.4	1117.6	1043.0	1010.5	999.2	997.5
27.5°	9451.5	8222.0	5359.1	3227.8	1901.0	1208.4	1010.5	947.3	914.8	913.2	916.4
30°	10160.3	8870.8	5508.4	3018.6	1620.4	1073.8	940.8	877.5	846.7	845.1	854.8
32.5°	10773.4	9404.4	5618.7	2812.6	1464.7	991.0	877.5	809.4	783.4	778.6	783.4
35°	11428.7	9936.4	5568.4	2652.0	1375.5	922.9	830.5	764.0	733.1	718.6	718.6
37.5°	12176.4	10484.7	5482.4	2519.0	1334.9	866.2	789.9	725.0	694.2	679.6	678.0
40°	12992.3	11032.9	5364.0	2400.6	1294.4	832.1	762.3	694.2	656.9	642.3	639.1
42.5°	13712.5	11501.7	5266.7	2322.7	1227.9	838.6	738.0	671.5	624.5	605.0	603.4
45°	14338.6	11973.7	5248.8	2277.3	1172.7	828.8	731.5	653.7	598.5	577.4	574.2
47.5°	14828.4	12465.2	5351.0	2251.4	1112.7	776.9	773.7	642.3	575.8	553.1	549.9
50°	15425.3	13162.6	5584.6	2197.8	1057.6	728.3	817.5	640.7	558.0	528.8	520.7
52.5°	16220.1	14071.0	5900.9	2102.1	978.1	682.9	780.2	640.7	536.9	507.7	498.0
55°	17422.0	15229.1	6210.7	1967.5	866.2	622.9	704.0	621.2	506.1	480.1	473.6
57.5°	18218.4	16075.8	6408.6	1781.0	726.7	579.1	606.6	590.4	475.2	447.7	447.7
60°	18259.0	16302.8	6314.5	1545.8	639.1	538.5	527.2	595.3	447.7	418.5	415.2
62.5°	17791.9	15746.5	5824.6	1334.9	592.0	494.7	476.9	522.3	420.1	390.9	386.0
65°	17061.9	14327.2	4974.7	1234.4	566.1	455.8	429.8	428.2	390.9	363.3	356.8
67.5°	15720.5	12520.3	4087.5	1176.0	553.1	412.0	387.7	379.6	356.8	334.1	330.9
70°	13743.3	10486.3	3278.1	1151.6	546.6	366.6	347.1	337.4	317.9	300.1	298.5
72.5°	10692.3	8505.8	2705.5	1135.4	543.4	324.4	303.3	290.3	279.0	262.8	262.8
75°	7680.2	6257.7	2064.8	1023.5	502.8	279.0	256.3	248.2	231.9	219.0	222.2
77.5°	4841.7	4214.0	1359.2	752.6	389.3	223.8	204.4	199.5	186.5	168.7	180.0
80°	3270.0	2963.4	793.2	473.6	244.9	163.8	157.3	155.7	141.1	121.7	123.3
82.5°	2225.4	2183.2	412.0	269.3	141.1	95.7	92.5	95.7	79.5	64.9	64.9
85°	869.4	1187.3	194.6	105.4	45.4	14.6	21.1	22.7	13.0	6.5	8.1
87.5°	16.2	121.7	4.9	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°	7902.4	7902.4	7902.4	7902.4	7902.4	7902.4	7902.4	7902.4	7902.4	7902.4	7902.4
2.5°	6588.6	6574.0	6598.3	6494.5	6515.6	6554.6	6574.0	6585.4	6745.9	6708.6	6810.8
5°	5140.2	5125.6	5219.6	5232.6	5281.3	5271.5	5318.6	5329.9	5388.3	5409.4	5552.1
7.5°	3738.7	3802.0	3909.0	3964.2	4046.9	4072.9	4048.5	4108.6	3986.9	4074.5	4100.4
10°	3004.0	2927.7	2882.3	3008.8	3025.1	3145.1	3096.4	3057.5	3128.9	3132.1	3200.2
12.5°	2501.1	2337.3	2228.6	2264.3	2303.3	2355.2	2363.3	2441.1	2493.0	2541.7	2582.2
15°	1961.0	1904.2	1805.3	1756.6	1811.8	1832.9	1883.2	1948.0	2003.2	2017.8	2072.9
17.5°	1505.2	1515.0	1498.7	1469.5	1503.6	1519.8	1523.1	1524.7	1539.3	1529.6	1610.7
20°	1211.6	1245.7	1286.3	1292.7	1304.1	1312.2	1297.6	1242.5	1244.1	1278.1	1304.1
22.5°	1096.5	1103.0	1148.4	1163.0	1198.7	1184.1	1141.9	1115.9	1112.7	1120.8	1133.8
25°	1005.6	1015.4	1047.8	1070.5	1098.1	1072.2	1041.3	1017.0	1013.8	1021.9	1034.8
27.5°	924.5	939.1	968.3	991.0	1017.0	992.7	963.5	942.4	940.8	939.1	947.3
30°	859.7	875.9	897.0	922.9	940.8	919.7	892.1	880.8	879.1	875.9	879.1
32.5°	794.8	820.7	841.8	854.8	872.6	856.4	835.3	828.8	817.5	807.8	802.9
35°	721.8	749.4	781.8	798.0	815.9	799.7	785.1	757.5	738.0	736.4	739.6
37.5°	679.6	691.0	716.9	744.5	762.3	754.2	726.7	699.1	694.2	694.2	697.5
40°	642.3	647.2	658.5	694.2	726.7	702.3	668.3	660.2	660.2	658.5	660.2
42.5°	605.0	609.9	609.9	637.5	689.4	650.4	624.5	624.5	624.5	626.1	631.0
45°	570.9	572.6	570.9	590.4	639.1	606.6	588.8	593.7	596.9	600.1	603.4
47.5°	541.8	543.4	541.8	558.0	582.3	569.3	559.6	566.1	572.6	577.4	580.7
50°	515.8	514.2	517.4	527.2	538.5	541.8	535.3	545.0	548.2	554.7	562.8
52.5°	493.1	491.5	494.7	499.6	515.8	515.8	515.8	523.9	530.4	536.9	548.2
55°	467.1	468.8	473.6	480.1	501.2	498.0	499.6	506.1	512.6	522.3	528.8
57.5°	442.8	446.1	452.5	462.3	483.4	481.7	483.4	486.6	494.7	499.6	506.1
60°	415.2	421.7	429.8	436.3	457.4	455.8	463.9	470.4	475.2	475.2	478.5
62.5°	387.7	397.4	405.5	410.4	433.1	434.7	446.1	450.9	454.2	450.9	455.8
65°	360.1	374.7	377.9	384.4	407.1	408.7	421.7	433.1	429.8	426.6	434.7
67.5°	332.5	350.4	348.7	356.8	379.6	382.8	394.1	413.6	407.1	403.9	410.4
70°	301.7	314.7	316.3	321.2	352.0	347.1	365.0	382.8	377.9	379.6	379.6
72.5°	267.6	279.0	279.0	288.7	321.2	313.0	327.6	347.1	347.1	345.5	345.5
75°	227.1	233.6	240.1	254.7	288.7	279.0	288.7	306.6	309.8	306.6	306.6
77.5°	183.3	193.0	196.3	215.7	240.1	238.4	248.2	256.3	262.8	259.5	259.5
80°	129.8	139.5	152.5	173.6	188.2	193.0	197.9	204.4	207.6	207.6	210.9
82.5°	73.0	87.6	98.9	120.0	126.5	150.8	149.2	154.1	149.2	131.4	146.0
85°	16.2	30.8	43.8	55.1	63.3	87.6	92.5	103.8	86.0	79.5	79.5
87.5°	0.0	0.0	0.0	0.0	0.0	13.0	26.0	35.7	30.8	26.0	26.0
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°	7902.4	7902.4	7902.4	7902.4	7902.4	7902.4	7902.4	7902.4	7902.4	7902.4
2.5°	6896.8	7037.9	7208.2	7501.8	7707.8	7930.0	8153.9	8392.3	8455.6	8520.4
5°	5591.1	5868.4	6019.3	6413.4	6827.0	7352.6	7782.4	8252.8	8449.1	8494.5
7.5°	4235.1	4423.2	4819.0	5218.0	5730.6	6282.1	6940.6	7673.7	7902.4	7998.1
10°	3357.6	3613.8	3961.0	4389.2	4838.5	5432.1	6175.0	7031.4	7355.8	7409.4
12.5°	2858.0	3143.5	3521.4	3973.9	4398.9	4846.6	5595.9	6479.9	6827.0	6942.2
15°	2285.4	2630.9	3067.2	3544.1	4006.4	4496.2	5255.3	6252.9	6653.5	6788.1
17.5°	1795.6	2074.6	2546.6	3064.0	3612.2	4231.8	5184.0	6361.5	6854.6	6979.5
20°	1373.8	1573.4	1970.7	2517.4	3159.7	3970.7	5201.8	6771.9	7362.3	7532.6
22.5°	1187.3	1289.5	1531.2	2051.8	2770.4	3743.6	5274.8	7334.7	8046.8	8330.7
25°	1075.4	1128.9	1265.2	1605.8	2399.0	3523.0	5441.9	8092.2	9003.8	9191.9
27.5°	979.7	1018.6	1103.0	1347.9	2061.6	3318.6	5636.5	8932.4	9897.5	10178.1
30°	888.9	940.8	1020.2	1197.0	1845.9	3132.1	5881.4	9613.7	10650.1	10911.3
32.5°	819.1	871.0	944.0	1091.6	1662.6	2935.8	6027.4	10212.2	11264.9	11487.1
35°	762.3	806.1	882.4	1007.3	1523.1	2786.6	5998.2	10687.4	11860.2	12087.2
37.5°	721.8	759.1	835.3	927.8	1417.6	2630.9	5983.6	11315.2	12585.2	12848.0
40°	684.5	723.4	793.2	875.9	1312.2	2447.6	5991.7	11938.0	13357.3	13620.0
42.5°	655.3	699.1	755.9	861.3	1203.5	2300.0	5991.7	12479.8	14028.8	14281.8
45°	631.0	678.0	733.1	859.7	1117.6	2188.1	5951.2	12945.3	14564.0	14779.8
47.5°	609.9	661.8	741.3	830.5	1096.5	2107.0	5915.5	13318.3	15000.4	15203.1
50°	595.3	656.9	788.3	796.4	1103.0	2082.7	6087.4	13788.7	15384.8	15560.0
52.5°	583.9	658.5	786.7	746.1	1091.6	2098.9	6445.9	14523.5	15918.4	15931.4
55°	561.2	656.9	746.1	689.4	1044.6	2126.5	6906.5	15590.8	16753.8	16763.5
57.5°	538.5	639.1	692.6	640.7	948.9	2126.5	7461.3	16601.3	17761.0	17769.1
60°	515.8	665.0	608.3	598.5	824.0	2087.5	8046.8	17045.7	18077.3	18160.1
62.5°	493.1	669.9	543.4	561.2	733.1	1993.5	8483.1	16554.3	17649.1	17767.5
65°	467.1	540.1	501.2	522.3	686.1	1836.1	8345.3	15654.0	16844.6	16985.7
67.5°	436.3	457.4	455.8	481.7	669.9	1604.2	7618.6	14515.4	15978.4	15970.3
70°	399.0	410.4	415.2	442.8	639.1	1424.1	6348.6	13037.7	14821.9	15003.6
72.5°	360.1	369.8	374.7	399.0	608.3	1321.9	4927.7	11002.1	12838.2	13122.1
75°	317.9	324.4	330.9	352.0	575.8	1171.1	3510.0	8398.8	9832.6	10278.7
77.5°	274.1	274.1	282.2	303.3	485.0	966.7	2355.2	5891.1	6661.6	7117.4
80°	222.2	223.8	220.6	243.3	356.8	661.8	1338.2	3935.0	4433.0	4520.5
82.5°	170.3	165.4	167.1	178.4	266.0	450.9	713.7	2444.4	2491.4	2442.8
85°	107.1	107.1	103.8	116.8	170.3	235.2	389.3	1497.1	1169.5	1112.7
87.5°	43.8	35.7	40.6	47.0	81.1	95.7	152.5	308.2	118.4	108.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)