

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: P454553

Luminaire Tested: **GALN-SA5C-830-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454553
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-SA5C-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA 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: 24116 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

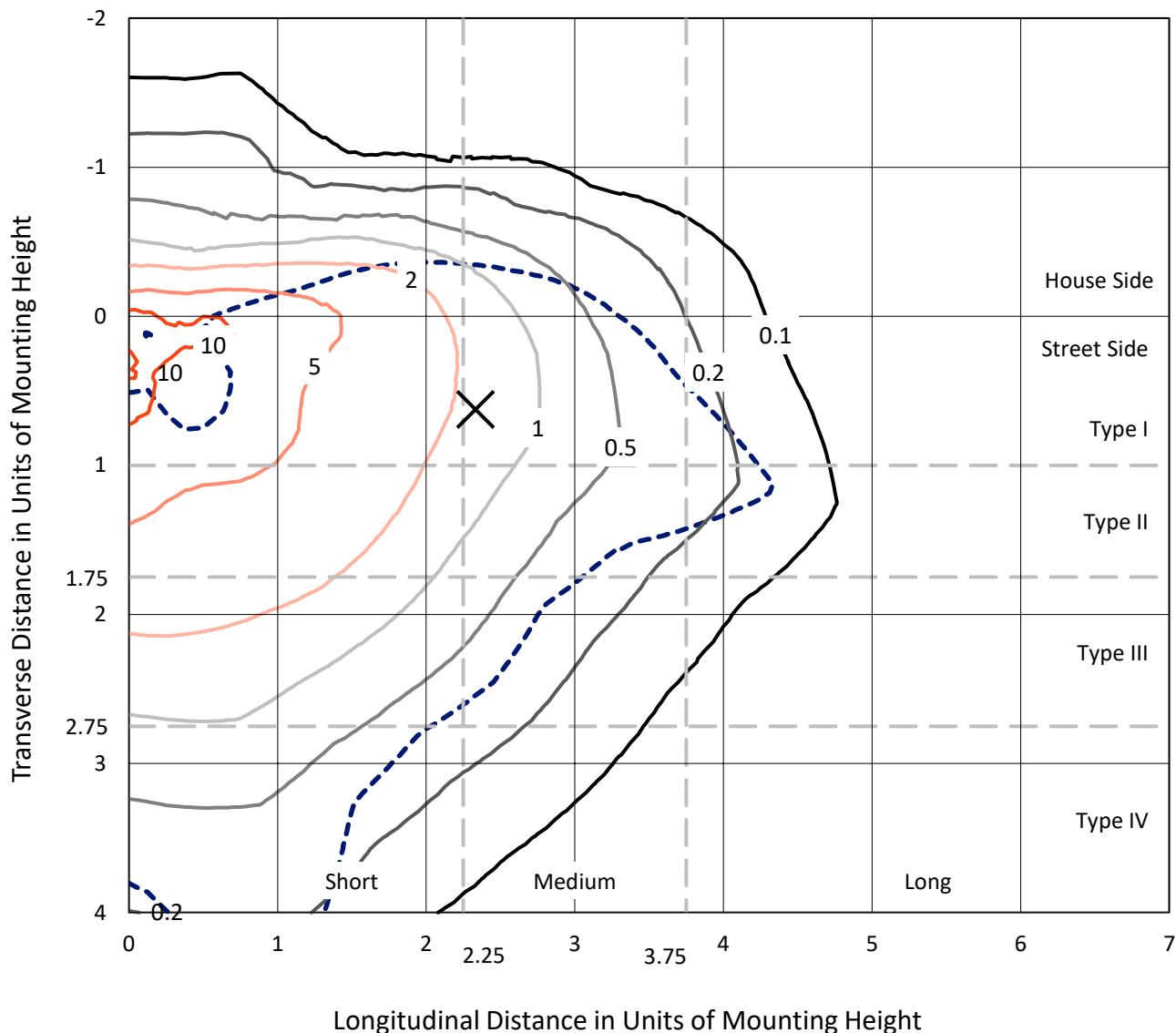
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

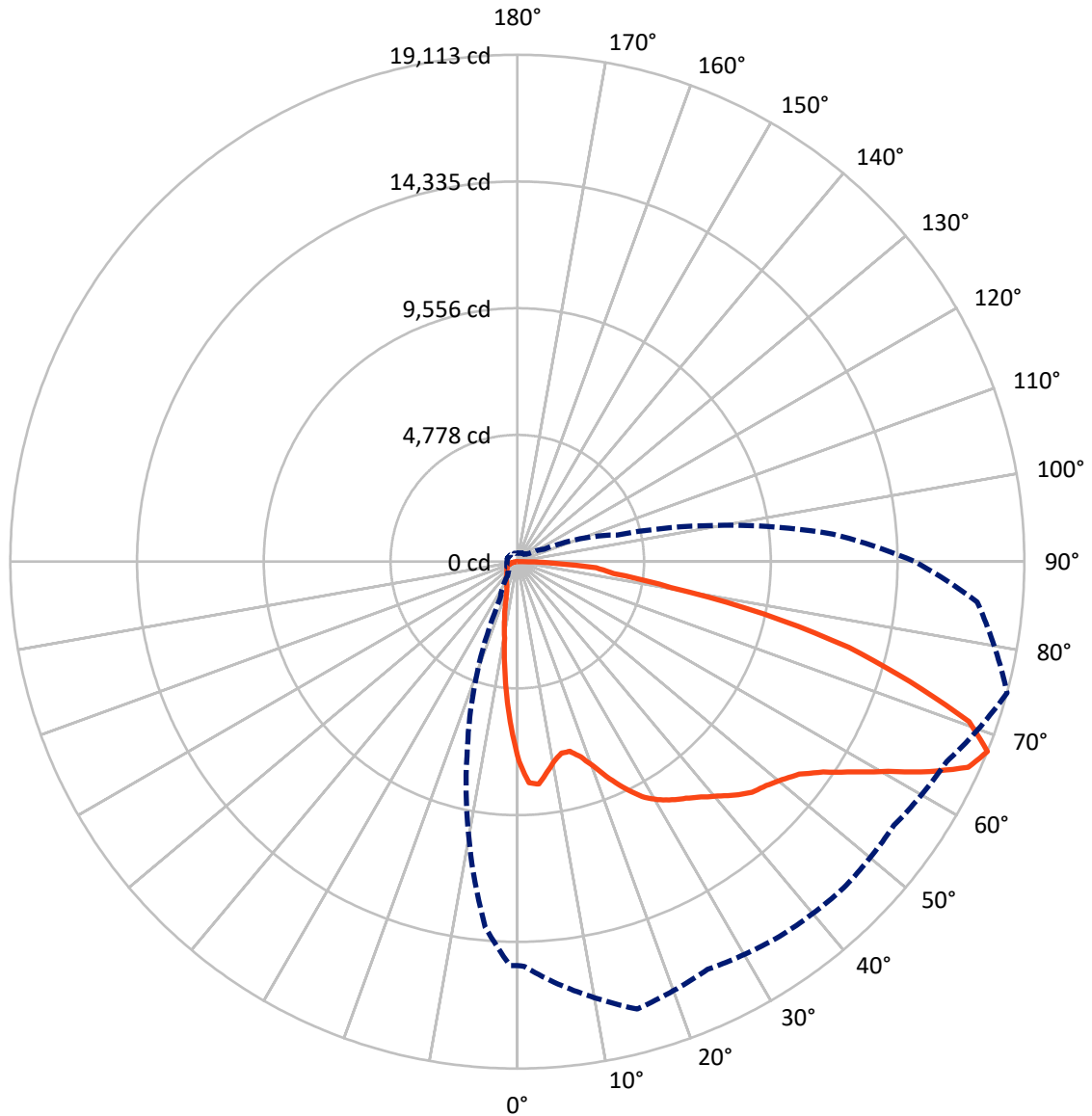
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 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	4076.1	0.0	4076.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	20039.9	0.0	20039.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	24116.0	0.0	24116.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.5	2.4
10°-20°	1191.8	4.9
20°-30°	1715.0	7.1
30°-40°	2470.1	10.2
40°-50°	3469.8	14.4
50°-60°	4839.2	20.1
60°-70°	5753.5	23.9
70°-80°	3388.5	14.1
80°-90°	716.5	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°	24116.0	100.0
0°-180°	24116.0	100.0

Coefficient of Utilization

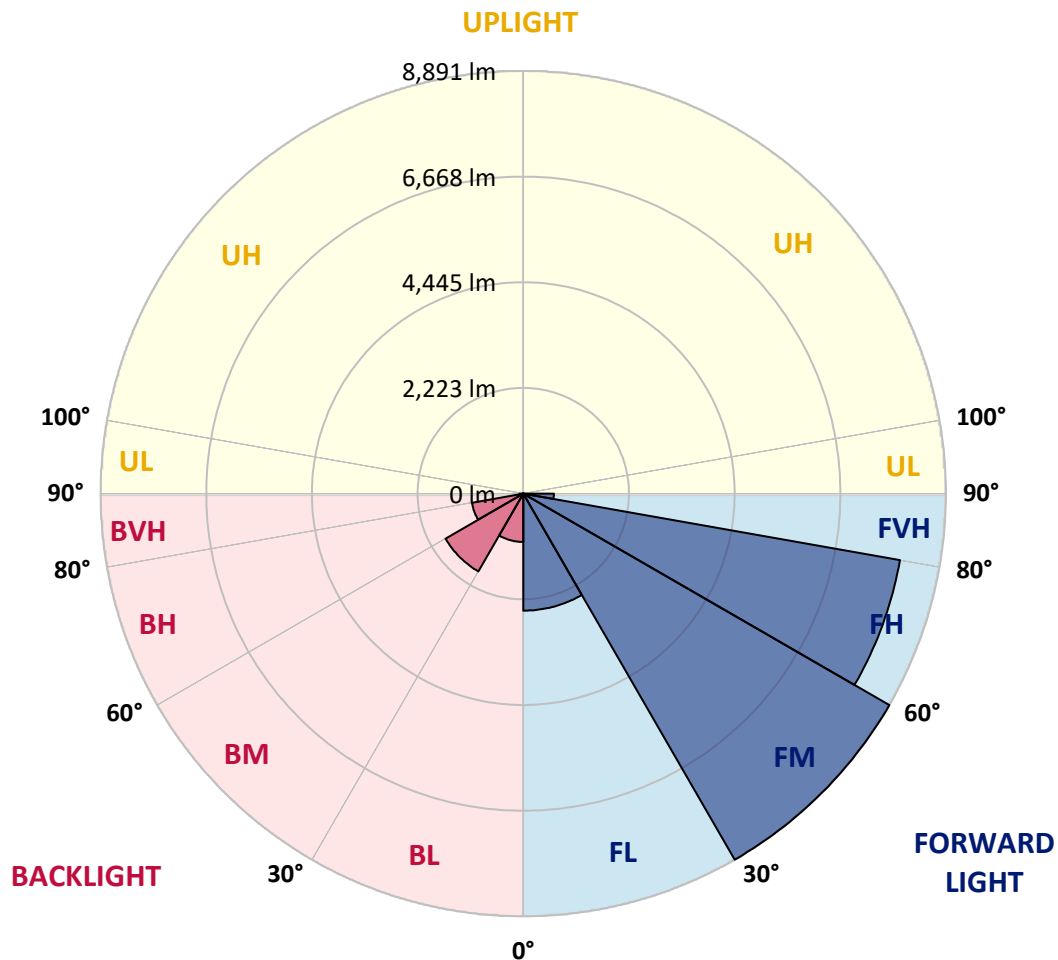


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2461.6	10.2			
FM	(30°-60°)	8890.7	36.9			
FH	(60°-80°)	8045.2	33.4			G4/12000
FVH	(80°-90°)	642.4	2.7			G4/750
BL	(0°-30°)	1016.7	4.2	B3/2500		
BM	(30°-60°)	1888.5	7.8	B2/2500		
BH	(60°-80°)	1096.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	74.1	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°	7534.4	7534.4	7534.4	7534.4	7534.4	7534.4	7534.4	7534.4	7534.4	7534.4	7534.4
2.5°	8123.6	8134.4	8204.0	8406.6	8545.8	8596.8	8632.4	8565.9	8501.0	8343.2	8105.1
5°	8098.9	8162.3	8343.2	8797.9	9156.7	9311.3	9357.7	9158.2	8828.8	8423.6	7936.5
7.5°	7625.7	7710.7	7989.1	8751.5	9384.0	9745.9	9697.9	9337.6	8743.7	8021.5	7341.1
10°	7064.3	7158.6	7494.2	8415.9	9230.9	9728.9	9728.9	9289.7	8501.0	7642.7	6858.6
12.5°	6618.9	6717.9	7101.4	8071.0	8912.3	9384.0	9462.9	9085.5	8326.2	7403.0	6541.6
15°	6472.0	6567.9	6980.8	7862.3	8575.2	8862.8	8889.1	8765.4	8241.1	7420.0	6527.7
17.5°	6654.5	6778.2	7195.7	7924.1	8265.9	8282.9	8303.0	8400.4	8250.4	7730.8	6809.1
20°	7181.8	7314.8	7750.9	8123.6	7995.3	7819.0	7829.8	8080.3	8360.2	8244.2	7481.8
22.5°	7942.7	8058.7	8505.6	8474.7	7880.8	7517.4	7441.6	7791.1	8522.6	8884.5	8197.8
25°	8763.9	8899.9	9413.4	8995.8	7913.3	7338.0	7290.1	7621.0	8691.2	9483.0	9025.2
27.5°	9704.1	9837.1	10242.3	9521.6	8083.4	7324.1	7266.9	7605.5	8842.7	10036.6	9815.5
30°	10403.1	10525.3	10800.6	9963.9	8292.2	7416.9	7345.7	7727.7	8972.6	10415.5	10585.6
32.5°	10952.1	11078.9	11228.9	10239.2	8567.5	7585.4	7454.0	7950.4	9142.7	10704.7	11156.2
35°	11524.3	11674.3	11663.5	10483.5	8824.2	7780.3	7651.9	8272.1	9410.3	10956.8	11880.0
37.5°	12249.6	12309.9	12232.6	10703.1	9131.9	8131.3	8060.2	8749.9	9790.7	11261.4	12725.9
40°	12985.7	13106.3	12708.9	10969.1	9506.2	8791.7	8784.0	9456.7	10242.3	11618.6	13545.5
42.5°	13616.7	13718.7	13154.3	11201.1	9959.3	9597.4	9656.2	10404.7	10834.6	12033.1	14204.3
45°	14091.4	14182.7	13565.6	11425.3	10556.2	10528.4	10874.8	11420.7	11581.5	12405.8	14591.0
47.5°	14495.1	14583.2	13851.7	11765.6	11293.9	11640.3	12243.4	12480.0	12220.2	12619.2	15024.0
50°	14835.3	14861.6	14048.1	12170.7	12209.4	13002.7	13587.3	13740.4	12851.2	12925.4	15399.8
52.5°	15189.4	15155.4	14386.8	12681.1	13199.1	14295.6	14720.9	14880.1	13455.8	13302.7	15947.2
55°	15982.8	16015.3	15146.1	13324.4	14199.7	15565.2	16125.1	15972.0	14125.5	13997.1	16643.1
57.5°	16941.6	16913.8	16214.8	14331.2	15218.8	16746.7	17164.3	16918.4	15019.3	14951.3	17348.3
60°	17314.3	17351.4	17108.6	15413.7	16224.0	17781.3	18208.2	17826.2	16091.0	16060.1	17880.3
62.5°	16940.0	17148.8	17312.7	16377.1	17080.8	18542.2	18965.9	18529.8	17209.1	17433.4	18253.0
65°	16194.6	16239.5	16797.8	17193.7	17493.7	18667.5	18888.6	18656.6	18143.2	18684.5	18236.0
67.5°	15226.6	15265.2	15919.4	17461.2	16961.7	17244.7	17399.4	17331.3	17854.0	19112.8	17396.3
70°	14304.9	14273.9	14965.2	16779.2	14765.7	14335.8	14464.1	14250.7	15405.9	18065.9	15749.3
72.5°	12511.0	12622.3	13364.6	14883.2	11691.3	10992.3	11272.2	10720.1	11849.1	15472.4	12783.1
75°	9800.0	9826.3	11065.0	12490.9	8819.5	7716.9	8095.8	7865.4	9076.2	12906.9	8827.3
77.5°	6785.9	6727.2	8058.7	9540.2	6289.5	5649.3	5655.4	5545.6	6337.4	9503.1	5997.2
80°	4310.0	4220.3	5044.6	5893.6	4322.4	4623.9	4472.4	4467.8	4126.0	5862.7	3626.5
82.5°	2329.0	2428.0	3187.3	3694.5	3100.7	3573.9	3275.4	3179.5	2831.6	3669.8	2319.7
85°	1060.9	1153.7	1699.6	2513.0	2355.3	2381.6	1591.3	1877.4	2342.9	2980.1	1238.7
87.5°	103.6	133.0	351.0	1186.1	804.2	634.1	236.6	456.2	589.2	1059.3	99.0
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°	7534.4	7534.4	7534.4	7534.4	7534.4	7534.4	7534.4	7534.4	7534.4	7534.4	7534.4
2.5°	8007.6	7927.2	7653.5	7427.7	7188.0	7005.5	6767.4	6608.1	6498.3	6332.8	6312.7
5°	7639.6	7443.2	6966.9	6481.3	6062.2	5746.7	5426.6	5132.7	4959.5	4905.4	4835.8
7.5°	7019.4	6688.5	6076.1	5519.4	5038.4	4568.3	4206.4	3949.7	3778.0	3677.5	3556.9
10°	6509.1	6125.6	5380.2	4698.2	4302.3	4010.0	3691.4	3416.2	3204.3	3023.4	2924.4
12.5°	6165.8	5732.8	4894.6	4340.9	4034.7	3723.9	3351.2	3041.9	2729.5	2523.8	2435.7
15°	6062.2	5604.4	4744.6	4163.1	3723.9	3317.2	2899.6	2496.0	2186.7	1991.9	1926.9
17.5°	6315.8	5762.2	4743.0	3926.5	3358.9	2873.3	2338.3	1959.4	1642.4	1497.0	1450.6
20°	6789.0	6065.3	4756.9	3693.0	2963.0	2279.5	1701.1	1390.3	1238.7	1176.9	1153.7
22.5°	7449.4	6527.7	4798.7	3462.5	2530.0	1750.6	1274.3	1116.6	1062.4	1051.6	1047.0
25°	8262.8	7099.9	4939.4	3255.3	2165.1	1336.2	1065.5	994.4	963.5	952.6	951.1
27.5°	9011.3	7839.1	5109.5	3077.5	1812.5	1152.1	963.5	903.1	872.2	870.7	873.8
30°	9687.1	8457.7	5251.8	2878.0	1544.9	1023.8	897.0	836.6	807.3	805.7	815.0
32.5°	10271.7	8966.4	5357.0	2681.6	1396.5	944.9	836.6	771.7	746.9	742.3	746.9
35°	10896.4	9473.7	5309.0	2528.5	1311.4	879.9	791.8	728.4	699.0	685.1	685.1
37.5°	11609.4	9996.4	5227.1	2401.7	1272.7	825.8	753.1	691.3	661.9	648.0	646.4
40°	12387.2	10519.1	5114.2	2288.8	1234.1	793.3	726.8	661.9	626.3	612.4	609.3
42.5°	13073.9	10966.0	5021.4	2214.5	1170.7	799.5	703.6	640.2	595.4	576.8	575.3
45°	13670.8	11416.1	5004.4	2171.2	1118.1	790.2	697.5	623.2	570.6	550.5	547.5
47.5°	14137.8	11884.6	5101.8	2146.5	1060.9	740.8	737.7	612.4	549.0	527.3	524.3
50°	14706.9	12549.6	5324.5	2095.5	1008.3	694.4	779.4	610.9	532.0	504.1	496.4
52.5°	15464.7	13415.6	5626.1	2004.2	932.5	651.1	743.9	610.9	511.9	484.0	474.8
55°	16610.7	14519.8	5921.4	1875.9	825.8	593.8	671.2	592.3	482.5	457.8	451.6
57.5°	17370.0	15327.1	6110.1	1698.0	692.8	552.1	578.4	562.9	453.1	426.8	426.8
60°	17408.6	15543.6	6020.4	1473.8	609.3	513.4	502.6	567.6	426.8	399.0	395.9
62.5°	16963.2	15013.1	5553.4	1272.7	564.5	471.7	454.7	498.0	400.5	372.7	368.1
65°	16267.3	13660.0	4743.0	1176.9	539.7	434.6	409.8	408.3	372.7	346.4	340.2
67.5°	14988.4	11937.2	3897.1	1121.2	527.3	392.8	369.6	361.9	340.2	318.6	315.5
70°	13103.3	9997.9	3125.4	1098.0	521.2	349.5	330.9	321.7	303.1	286.1	284.6
72.5°	10194.3	8109.7	2579.5	1082.5	518.1	309.3	289.2	276.8	266.0	250.5	250.5
75°	7322.5	5966.3	1968.7	975.8	479.4	266.0	244.3	236.6	221.1	208.8	211.9
77.5°	4616.2	4017.7	1295.9	717.6	371.2	213.4	194.9	190.2	177.8	160.8	171.7
80°	3117.7	2825.4	756.2	451.6	233.5	156.2	150.0	148.5	134.5	116.0	117.5
82.5°	2121.8	2081.6	392.8	256.7	134.5	91.2	88.1	91.2	75.8	61.9	61.9
85°	828.9	1132.0	185.6	100.5	43.3	13.9	20.1	21.7	12.4	6.2	7.7
87.5°	15.5	116.0	4.6	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°	7534.4	7534.4	7534.4	7534.4	7534.4	7534.4	7534.4	7534.4	7534.4	7534.4	7534.4
2.5°	6281.8	6267.8	6291.0	6192.1	6212.2	6249.3	6267.8	6278.7	6431.8	6396.2	6493.6
5°	4900.8	4886.8	4976.5	4988.9	5035.3	5026.0	5070.9	5081.7	5137.4	5157.5	5293.6
7.5°	3564.6	3624.9	3727.0	3779.6	3858.4	3883.2	3860.0	3917.2	3801.2	3884.7	3909.5
10°	2864.1	2791.4	2748.1	2868.7	2884.2	2998.6	2952.2	2915.1	2983.1	2986.2	3051.2
12.5°	2384.7	2228.5	2124.9	2158.9	2196.0	2245.5	2253.2	2327.4	2376.9	2423.3	2462.0
15°	1869.7	1815.6	1721.2	1674.8	1727.4	1747.5	1795.5	1857.3	1909.9	1923.8	1976.4
17.5°	1435.1	1444.4	1428.9	1401.1	1433.6	1449.0	1452.1	1453.7	1467.6	1458.3	1535.6
20°	1155.2	1187.7	1226.4	1232.5	1243.4	1251.1	1237.2	1184.6	1186.1	1218.6	1243.4
22.5°	1045.4	1051.6	1094.9	1108.8	1142.8	1128.9	1088.7	1064.0	1060.9	1068.6	1081.0
25°	958.8	968.1	999.0	1020.7	1047.0	1022.2	992.8	969.6	966.5	974.3	986.6
27.5°	881.5	895.4	923.2	944.9	969.6	946.4	918.6	898.5	897.0	895.4	903.1
30°	819.6	835.1	855.2	879.9	897.0	876.8	850.6	839.7	838.2	835.1	838.2
32.5°	757.8	782.5	802.6	815.0	832.0	816.5	796.4	790.2	779.4	770.1	765.5
35°	688.2	714.5	745.4	760.9	777.9	762.4	748.5	722.2	703.6	702.1	705.2
37.5°	648.0	658.8	683.5	709.8	726.8	719.1	692.8	666.5	661.9	661.9	665.0
40°	612.4	617.0	627.9	661.9	692.8	669.6	637.1	629.4	629.4	627.9	629.4
42.5°	576.8	581.5	581.5	607.8	657.3	620.1	595.4	595.4	595.4	596.9	601.6
45°	544.4	545.9	544.4	562.9	609.3	578.4	561.4	566.0	569.1	572.2	575.3
47.5°	516.5	518.1	516.5	532.0	555.2	542.8	533.5	539.7	545.9	550.5	553.6
50°	491.8	490.2	493.3	502.6	513.4	516.5	510.3	519.6	522.7	528.9	536.6
52.5°	470.1	468.6	471.7	476.3	491.8	491.8	491.8	499.5	505.7	511.9	522.7
55°	445.4	446.9	451.6	457.8	477.9	474.8	476.3	482.5	488.7	498.0	504.1
57.5°	422.2	425.3	431.5	440.7	460.8	459.3	460.8	463.9	471.7	476.3	482.5
60°	395.9	402.1	409.8	416.0	436.1	434.6	442.3	448.5	453.1	453.1	456.2
62.5°	369.6	378.9	386.6	391.3	412.9	414.5	425.3	429.9	433.0	429.9	434.6
65°	343.3	357.2	360.3	366.5	388.2	389.7	402.1	412.9	409.8	406.7	414.5
67.5°	317.0	334.0	332.5	340.2	361.9	365.0	375.8	394.4	388.2	385.1	391.3
70°	287.6	300.0	301.6	306.2	335.6	330.9	348.0	365.0	360.3	361.9	361.9
72.5°	255.2	266.0	266.0	275.3	306.2	298.5	312.4	330.9	330.9	329.4	329.4
75°	216.5	222.7	228.9	242.8	275.3	266.0	275.3	292.3	295.4	292.3	292.3
77.5°	174.8	184.0	187.1	205.7	228.9	227.3	236.6	244.3	250.5	247.4	247.4
80°	123.7	133.0	145.4	165.5	179.4	184.0	188.7	194.9	197.9	197.9	201.0
82.5°	69.6	83.5	94.3	114.4	120.6	143.8	142.3	146.9	142.3	125.3	139.2
85°	15.5	29.4	41.8	52.6	60.3	83.5	88.1	99.0	82.0	75.8	75.8
87.5°	0.0	0.0	0.0	0.0	0.0	12.4	24.7	34.0	29.4	24.7	24.7
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°	7534.4	7534.4	7534.4	7534.4	7534.4	7534.4	7534.4	7534.4	7534.4	7534.4
2.5°	6575.6	6710.1	6872.5	7152.4	7348.8	7560.7	7774.1	8001.4	8061.8	8123.6
5°	5330.7	5595.1	5739.0	6114.7	6509.1	7010.2	7420.0	7868.4	8055.6	8098.9
7.5°	4037.8	4217.2	4594.6	4975.0	5463.7	5989.5	6617.4	7316.4	7534.4	7625.7
10°	3201.2	3445.5	3776.5	4184.8	4613.1	5179.1	5887.4	6704.0	7013.2	7064.3
12.5°	2724.9	2997.1	3357.4	3788.9	4194.0	4620.9	5335.3	6178.2	6509.1	6618.9
15°	2179.0	2508.4	2924.4	3379.0	3819.8	4286.8	5010.6	5961.6	6343.6	6472.0
17.5°	1711.9	1977.9	2428.0	2921.3	3444.0	4034.7	4942.5	6065.3	6535.4	6654.5
20°	1309.9	1500.1	1879.0	2400.1	3012.5	3785.8	4959.5	6456.5	7019.4	7181.8
22.5°	1132.0	1229.4	1459.9	1956.3	2641.4	3569.3	5029.1	6993.1	7672.0	7942.7
25°	1025.3	1076.3	1206.2	1531.0	2287.2	3358.9	5188.4	7715.3	8584.5	8763.9
27.5°	934.1	971.2	1051.6	1285.1	1965.6	3164.1	5374.0	8516.4	9436.6	9704.1
30°	847.5	897.0	972.7	1141.3	1759.9	2986.2	5607.5	9165.9	10154.1	10403.1
32.5°	781.0	830.5	900.0	1040.8	1585.1	2799.1	5746.7	9736.6	10740.2	10952.1
35°	726.8	768.6	841.3	960.4	1452.1	2656.8	5718.9	10189.7	11307.8	11524.3
37.5°	688.2	723.7	796.4	884.6	1351.6	2508.4	5704.9	10788.2	11999.1	12249.6
40°	652.6	689.7	756.2	835.1	1251.1	2333.6	5712.7	11382.0	12735.2	12985.7
42.5°	624.8	666.5	720.7	821.2	1147.5	2192.9	5712.7	11898.6	13375.4	13616.7
45°	601.6	646.4	699.0	819.6	1065.5	2086.2	5674.0	12342.4	13885.8	14091.4
47.5°	581.5	631.0	706.7	791.8	1045.4	2008.9	5640.0	12698.1	14301.8	14495.1
50°	567.6	626.3	751.6	759.3	1051.6	1985.7	5803.9	13146.6	14668.3	14835.3
52.5°	556.7	627.9	750.0	711.4	1040.8	2001.1	6145.7	13847.1	15177.1	15189.4
55°	535.1	626.3	711.4	657.3	995.9	2027.4	6584.9	14864.7	15973.5	15982.8
57.5°	513.4	609.3	660.3	610.9	904.7	2027.4	7113.8	15828.1	16933.9	16941.6
60°	491.8	634.1	579.9	570.6	785.6	1990.3	7672.0	16251.9	17235.4	17314.3
62.5°	470.1	638.7	518.1	535.1	699.0	1900.6	8088.0	15783.3	16827.2	16940.0
65°	445.4	515.0	477.9	498.0	654.2	1750.6	7956.6	14925.0	16060.1	16194.6
67.5°	416.0	436.1	434.6	459.3	638.7	1529.5	7263.8	13839.4	15234.3	15226.6
70°	380.4	391.3	395.9	422.2	609.3	1357.8	6052.9	12430.5	14131.7	14304.9
72.5°	343.3	352.6	357.2	380.4	579.9	1260.4	4698.2	10489.7	12240.3	12511.0
75°	303.1	309.3	315.5	335.6	549.0	1116.6	3346.6	8007.6	9374.7	9800.0
77.5°	261.4	261.4	269.1	289.2	462.4	921.7	2245.5	5616.8	6351.4	6785.9
80°	211.9	213.4	210.3	232.0	340.2	631.0	1275.8	3751.7	4226.5	4310.0
82.5°	162.4	157.7	159.3	170.1	253.6	429.9	680.4	2330.5	2375.4	2329.0
85°	102.1	102.1	99.0	111.3	162.4	224.2	371.2	1427.4	1115.0	1060.9
87.5°	41.8	34.0	38.7	44.8	77.3	91.2	145.4	293.8	112.9	103.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)