

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: P652012

Luminaire Tested: **GALN-SA7A-840-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652012
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-840-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 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: 23090.5 lumens
Efficiency: N/A
Efficacy: 107.4 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

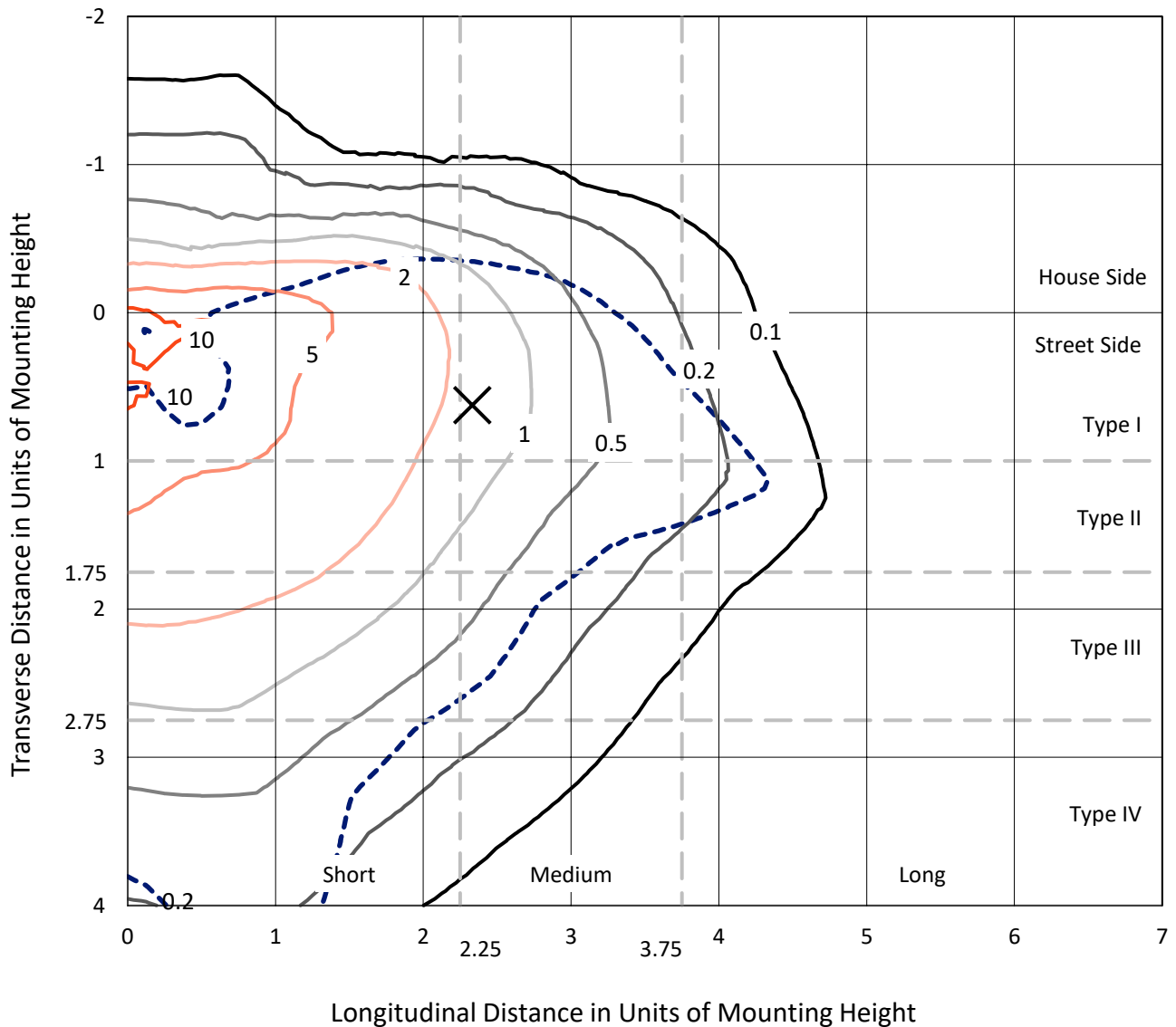
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

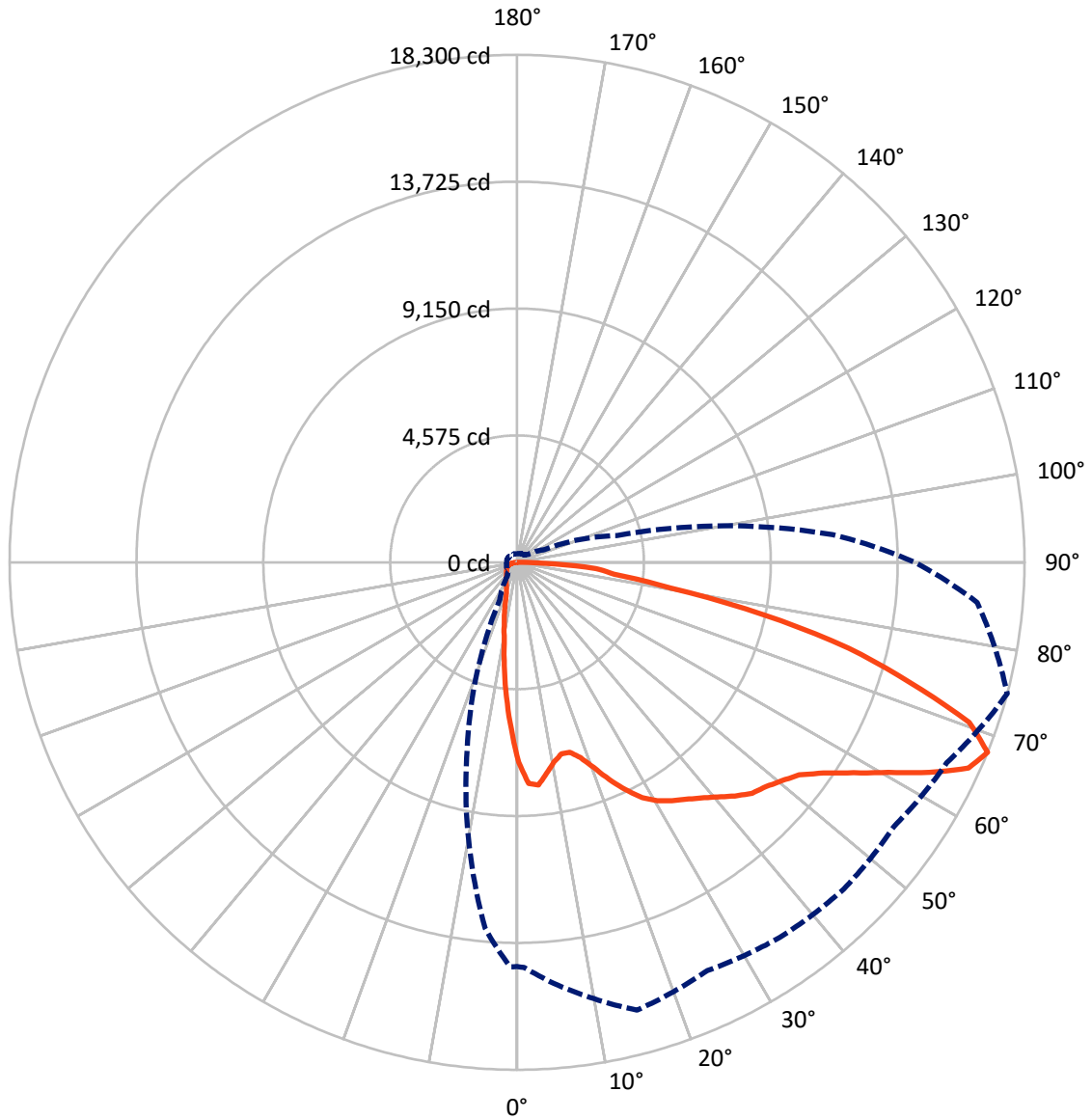
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 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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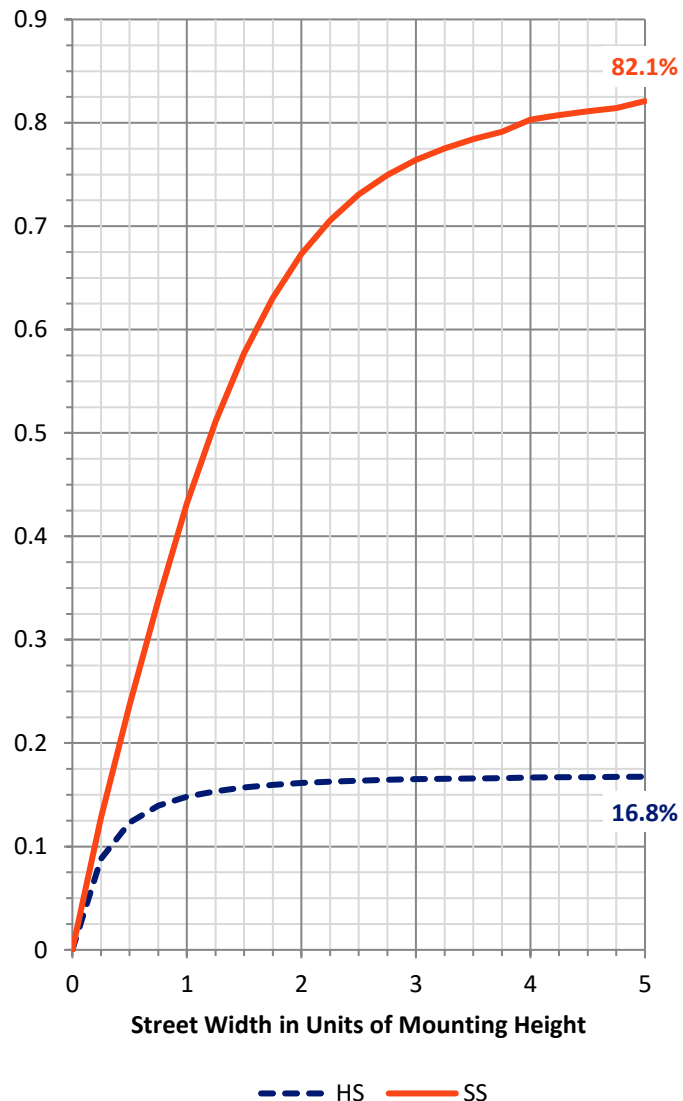
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3902.8	0.0	3902.8
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	19187.7	0.0	19187.7
	% Fixture	83.1	0.0	83.1
Total	Lumens	23090.5	0.0	23090.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.2	2.4
10°-20°	1141.1	4.9
20°-30°	1642.1	7.1
30°-40°	2365.1	10.2
40°-50°	3322.3	14.4
50°-60°	4633.4	20.1
60°-70°	5508.8	23.9
70°-80°	3244.4	14.1
80°-90°	686.1	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°	23090.5	100.0
0°-180°	23090.5	100.0

Coefficient of Utilization

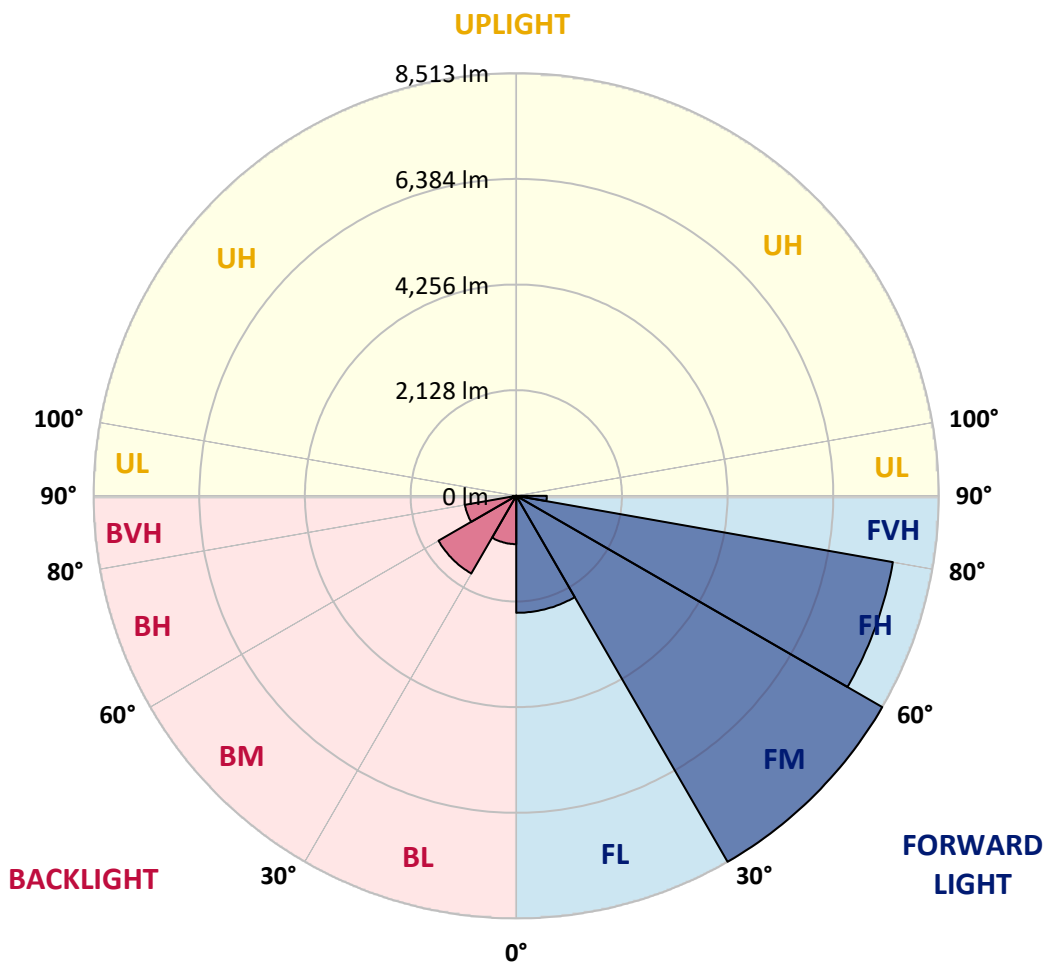


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2356.9	10.2			
FM (30°-60°)	8512.6	36.9			
FH (60°-80°)	7703.1	33.4			G4/12000
FVH (80°-90°)	615.1	2.7			G4/750
BL (0°-30°)	973.5	4.2	B2/1000		
BM (30°-60°)	1808.2	7.8	B2/2500		
BH (60°-80°)	1050.2	4.5	B3/2500		G3/2500
BVH (80°-90°)	71.0	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°	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0
2.5°	7778.2	7788.5	7855.2	8049.1	8182.4	8231.3	8265.3	8201.7	8139.5	7988.4	7760.4
5°	7754.4	7815.2	7988.4	8423.8	8767.3	8915.4	8959.8	8768.8	8453.4	8065.4	7599.0
7.5°	7301.4	7382.8	7649.3	8379.3	8984.9	9331.4	9285.6	8940.5	8371.9	7680.4	7028.9
10°	6763.9	6854.2	7175.5	8058.0	8838.3	9315.2	9315.2	8894.6	8139.5	7317.6	6566.9
12.5°	6337.4	6432.2	6799.4	7727.9	8533.3	8984.9	9060.4	8699.1	7972.2	7088.1	6263.4
15°	6196.7	6288.6	6683.9	7528.0	8210.5	8485.9	8511.1	8392.7	7890.7	7104.4	6250.1
17.5°	6371.5	6489.9	6889.7	7587.2	7914.4	7930.7	7949.9	8043.2	7899.6	7402.1	6519.6
20°	6876.4	7003.8	7421.3	7778.2	7655.3	7486.5	7496.8	7736.7	8004.7	7893.6	7163.6
22.5°	7604.9	7716.0	8143.9	8114.3	7545.7	7197.7	7125.2	7459.8	8160.2	8506.7	7849.2
25°	8391.2	8521.5	9013.1	8613.3	7576.8	7026.0	6980.0	7296.9	8321.6	9079.7	8641.4
27.5°	9291.5	9418.8	9806.7	9116.7	7739.6	7012.7	6957.8	7282.1	8466.7	9609.8	9398.1
30°	9960.7	10077.7	10341.3	9540.2	7939.5	7101.5	7033.4	7399.1	8591.1	9972.6	10135.5
32.5°	10486.3	10607.8	10751.4	9803.8	8203.1	7262.9	7137.1	7612.3	8754.0	10249.4	10681.9
35°	11034.3	11177.9	11167.5	10037.8	8448.9	7449.4	7326.5	7920.3	9010.1	10490.8	11374.8
37.5°	11728.7	11786.4	11712.4	10248.0	8743.6	7785.6	7717.4	8377.9	9374.4	10782.5	12184.7
40°	12433.5	12549.0	12168.5	10502.7	9101.9	8417.8	8410.4	9054.5	9806.7	11124.6	12969.6
42.5°	13037.7	13135.4	12594.9	10724.8	9535.8	9189.3	9245.5	9962.2	10373.8	11521.4	13600.3
45°	13492.2	13579.6	12988.8	10939.5	10107.3	10080.6	10412.3	10935.0	11089.0	11878.3	13970.5
47.5°	13878.7	13963.1	13262.7	11265.3	10813.7	11145.3	11722.8	11949.3	11700.6	12082.6	14385.1
50°	14204.4	14229.6	13450.8	11653.1	11690.2	12449.8	13009.5	13156.1	12304.7	12375.7	14744.9
52.5°	14543.5	14511.0	13775.1	12141.9	12637.9	13687.7	14094.9	14247.4	12883.6	12737.0	15269.1
55°	15303.2	15334.2	14502.0	12757.8	13595.9	14903.4	15439.3	15292.7	13524.8	13401.9	15935.4
57.5°	16221.2	16194.5	15525.3	13721.8	14571.7	16034.6	16434.4	16198.9	14380.7	14315.5	16610.6
60°	16578.0	16613.5	16381.1	14758.2	15534.1	17025.2	17433.8	17068.2	15406.8	15377.2	17120.0
62.5°	16219.7	16419.6	16576.5	15680.7	16354.4	17753.7	18159.5	17741.9	16477.4	16692.0	17476.8
65°	15506.0	15548.9	16083.5	16462.5	16749.8	17873.6	18085.4	17863.3	17371.7	17889.9	17460.5
67.5°	14579.1	14616.1	15242.5	16718.7	16240.4	16511.4	16659.5	16594.3	17094.8	18300.1	16656.5
70°	13696.5	13666.9	14328.8	16065.7	14137.8	13726.2	13849.1	13644.7	14750.8	17297.7	15079.6
72.5°	11979.0	12085.6	12796.3	14250.3	11194.1	10524.9	10792.9	10264.3	11345.2	14814.5	12239.6
75°	9383.3	9408.4	10594.5	11959.7	8444.5	7388.8	7751.5	7530.9	8690.3	12358.0	8451.9
77.5°	6497.3	6441.1	7716.0	9134.5	6022.1	5409.1	5414.9	5309.8	6068.0	9098.9	5742.2
80°	4126.7	4040.8	4830.1	5643.0	4138.6	4427.4	4282.2	4277.7	3950.5	5613.3	3472.2
82.5°	2229.9	2324.7	3051.7	3537.4	2968.8	3421.9	3136.2	3044.3	2711.2	3513.7	2221.1
85°	1015.8	1104.6	1627.3	2406.2	2255.1	2280.3	1523.6	1797.6	2243.3	2853.3	1186.1
87.5°	99.2	127.3	336.1	1135.7	769.9	607.1	226.6	436.8	564.1	1014.2	94.8
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°	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0
2.5°	7667.1	7590.1	7328.1	7111.8	6882.3	6707.6	6479.6	6327.1	6222.0	6063.5	6044.3
5°	7314.7	7126.6	6670.6	6205.7	5804.4	5502.3	5195.8	4914.5	4748.6	4696.8	4630.2
7.5°	6720.9	6404.0	5817.7	5284.7	4824.1	4374.0	4027.5	3781.7	3617.4	3521.1	3405.6
10°	6232.3	5865.0	5151.4	4498.4	4119.3	3839.5	3534.5	3270.9	3068.1	2894.8	2800.0
12.5°	5903.6	5489.0	4686.5	4156.4	3863.1	3565.6	3208.7	2912.6	2613.5	2416.5	2332.1
15°	5804.4	5366.1	4542.8	3986.1	3565.6	3176.1	2776.3	2389.9	2093.8	1907.1	1845.0
17.5°	6047.2	5517.1	4541.3	3759.5	3216.1	2751.2	2238.8	1876.0	1572.5	1433.3	1388.9
20°	6500.3	5807.4	4554.7	3535.9	2837.0	2182.6	1628.8	1331.1	1186.1	1126.9	1104.6
22.5°	7132.6	6250.1	4594.6	3315.3	2422.4	1676.2	1220.1	1069.1	1017.3	1006.8	1002.5
25°	7911.5	6798.0	4729.4	3116.9	2073.0	1279.3	1020.2	952.1	922.5	912.1	910.6
27.5°	8628.1	7505.8	4892.3	2946.6	1735.4	1103.1	922.5	864.7	835.1	833.6	836.6
30°	9275.1	8098.0	5028.5	2755.6	1479.2	980.3	858.8	801.1	773.0	771.4	780.4
32.5°	9834.9	8585.2	5129.2	2567.6	1337.1	904.7	801.1	738.9	715.2	710.7	715.2
35°	10433.1	9070.9	5083.3	2421.0	1255.6	842.5	758.2	697.4	669.3	656.0	656.0
37.5°	11115.7	9571.3	5004.8	2299.5	1218.6	790.7	721.1	661.9	633.8	620.4	619.0
40°	11860.5	10071.8	4896.7	2191.5	1181.6	759.6	695.9	633.8	599.7	586.3	583.4
42.5°	12517.9	10499.7	4807.8	2120.4	1120.9	765.6	673.7	613.0	570.1	552.3	550.9
45°	13089.5	10930.6	4791.6	2079.0	1070.6	756.6	667.8	596.7	546.4	527.1	524.2
47.5°	13536.7	11379.2	4884.9	2055.2	1015.8	709.3	706.3	586.3	525.6	504.9	502.0
50°	14081.5	12016.0	5098.1	2006.4	965.4	664.8	746.3	584.9	509.4	482.7	475.3
52.5°	14807.1	12845.2	5386.9	1919.0	892.9	623.3	712.2	584.9	490.1	463.5	454.6
55°	15904.3	13902.4	5669.6	1796.1	790.7	568.6	642.6	567.1	462.0	438.3	432.4
57.5°	16631.4	14675.3	5850.2	1625.8	663.4	528.7	553.8	539.0	433.9	408.6	408.6
60°	16668.4	14882.6	5764.4	1411.1	583.4	491.6	481.2	543.5	408.6	382.0	379.0
62.5°	16241.9	14374.7	5317.2	1218.6	540.4	451.6	435.3	476.8	383.5	356.8	352.4
65°	15575.6	13079.1	4541.3	1126.9	516.8	416.0	392.4	390.9	356.8	331.7	325.7
67.5°	14351.1	11429.6	3731.3	1073.5	504.9	376.1	353.9	346.5	325.7	305.0	302.1
70°	12546.0	9572.8	2992.5	1051.3	499.0	334.6	316.9	308.0	290.2	273.9	272.5
72.5°	9760.8	7764.9	2469.8	1036.5	496.0	296.1	276.9	265.1	254.7	239.9	239.9
75°	7011.2	5712.6	1884.9	934.4	459.0	254.7	234.0	226.6	211.8	199.9	202.8
77.5°	4420.0	3846.9	1240.8	687.0	355.4	204.4	186.5	182.2	170.3	154.0	164.3
80°	2985.1	2705.2	724.1	432.4	223.6	149.5	143.6	142.1	128.8	111.0	112.5
82.5°	2031.5	1993.0	376.1	245.8	128.8	87.4	84.4	87.4	72.6	59.2	59.2
85°	793.7	1083.9	177.7	96.2	41.5	13.3	19.3	20.7	11.9	5.9	7.4
87.5°	14.8	111.0	4.5	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°	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0
2.5°	6014.7	6001.3	6023.5	5928.8	5948.0	5983.5	6001.3	6011.7	6158.3	6124.2	6217.5
5°	4692.4	4679.1	4764.9	4776.8	4821.2	4812.3	4855.3	4865.6	4918.9	4938.2	5068.5
7.5°	3413.0	3470.8	3568.5	3618.8	3694.3	3718.1	3695.9	3750.6	3639.6	3719.6	3743.2
10°	2742.2	2672.7	2631.2	2746.7	2761.5	2871.1	2826.7	2791.1	2856.3	2859.2	2921.5
12.5°	2283.2	2133.7	2034.5	2067.1	2102.6	2150.0	2157.4	2228.5	2275.8	2320.2	2357.3
15°	1790.2	1738.3	1648.0	1603.6	1654.0	1673.2	1719.1	1778.3	1828.7	1842.0	1892.3
17.5°	1374.1	1383.0	1368.1	1341.6	1372.6	1387.4	1390.4	1391.9	1405.2	1396.3	1470.3
20°	1106.1	1137.2	1174.2	1180.1	1190.5	1197.9	1184.5	1134.3	1135.7	1166.8	1190.5
22.5°	1001.0	1006.8	1048.3	1061.7	1094.2	1080.9	1042.4	1018.7	1015.8	1023.2	1035.0
25°	918.0	927.0	956.6	977.2	1002.5	978.8	950.6	928.4	925.4	932.8	944.7
27.5°	844.0	857.3	884.0	904.7	928.4	906.2	879.5	860.3	858.8	857.3	864.7
30°	784.7	799.6	818.8	842.5	858.8	839.6	814.4	804.0	802.6	799.6	802.6
32.5°	725.5	749.2	768.5	780.4	796.6	781.8	762.5	756.6	746.3	737.4	732.9
35°	658.9	684.1	713.7	728.5	744.8	730.0	716.7	691.5	673.7	672.2	675.2
37.5°	620.4	630.8	654.5	679.6	695.9	688.5	663.4	638.2	633.8	633.8	636.7
40°	586.3	590.8	601.1	633.8	663.4	641.2	610.1	602.7	602.7	601.1	602.7
42.5°	552.3	556.7	556.7	581.9	629.3	593.7	570.1	570.1	570.1	571.5	576.0
45°	521.3	522.7	521.3	539.0	583.4	553.8	537.5	541.9	544.9	547.8	550.9
47.5°	494.6	496.0	494.6	509.4	531.6	519.7	510.8	516.8	522.7	527.1	530.1
50°	470.9	469.4	472.3	481.2	491.6	494.6	488.6	497.5	500.5	506.4	513.8
52.5°	450.1	448.7	451.6	456.1	470.9	470.9	470.9	478.3	484.2	490.1	500.5
55°	426.5	427.9	432.4	438.3	457.5	454.6	456.1	462.0	467.9	476.8	482.7
57.5°	404.3	407.2	413.1	422.0	441.3	439.8	441.3	444.2	451.6	456.1	462.0
60°	379.0	385.0	392.4	398.3	417.6	416.0	423.4	429.4	433.9	433.9	436.8
62.5°	353.9	362.8	370.2	374.6	395.4	396.9	407.2	411.7	414.6	411.7	416.0
65°	328.7	342.0	345.0	350.9	371.6	373.2	385.0	395.4	392.4	389.5	396.9
67.5°	303.5	319.8	318.3	325.7	346.5	349.4	359.8	377.6	371.6	368.7	374.6
70°	275.4	287.3	288.7	293.2	321.3	316.9	333.1	349.4	345.0	346.5	346.5
72.5°	244.3	254.7	254.7	263.6	293.2	285.8	299.1	316.9	316.9	315.4	315.4
75°	207.3	213.2	219.2	232.5	263.6	254.7	263.6	279.9	282.8	279.9	279.9
77.5°	167.4	176.2	179.1	197.0	219.2	217.7	226.6	234.0	239.9	236.9	236.9
80°	118.5	127.3	139.2	158.4	171.7	176.2	180.6	186.5	189.6	189.6	192.5
82.5°	66.6	80.0	90.3	109.6	115.5	137.7	136.2	140.7	136.2	119.9	133.3
85°	14.8	28.2	39.9	50.4	57.8	80.0	84.4	94.8	78.5	72.6	72.6
87.5°	0.0	0.0	0.0	0.0	0.0	11.9	23.7	32.5	28.2	23.7	23.7
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°	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0
2.5°	6296.0	6424.8	6580.2	6848.3	7036.3	7239.2	7443.5	7661.2	7719.0	7778.2
5°	5104.0	5357.2	5494.9	5854.7	6232.3	6712.0	7104.4	7533.8	7713.0	7754.4
7.5°	3866.2	4037.9	4399.2	4763.4	5231.4	5734.8	6335.9	7005.3	7214.0	7301.4
10°	3065.1	3299.0	3615.9	4006.8	4416.9	4958.9	5637.1	6418.8	6715.0	6763.9
12.5°	2609.0	2869.6	3214.6	3627.7	4015.7	4424.3	5108.5	5915.4	6232.3	6337.4
15°	2086.4	2401.7	2800.0	3235.3	3657.3	4104.5	4797.5	5708.1	6073.9	6196.7
17.5°	1639.1	1893.8	2324.7	2797.1	3297.6	3863.1	4732.3	5807.4	6257.5	6371.5
20°	1254.2	1436.3	1799.1	2298.0	2884.5	3624.8	4748.6	6181.9	6720.9	6876.4
22.5°	1083.9	1177.1	1397.8	1873.1	2529.1	3417.5	4815.2	6695.8	7345.8	7604.9
25°	981.7	1030.6	1154.9	1465.9	2190.0	3216.1	4967.8	7387.3	8219.4	8391.2
27.5°	894.3	929.9	1006.8	1230.5	1882.0	3029.5	5145.5	8154.3	9035.3	9291.5
30°	811.4	858.8	931.4	1092.8	1685.0	2859.2	5369.0	8776.2	9722.4	9960.7
32.5°	747.7	795.2	861.8	996.5	1517.8	2680.1	5502.3	9322.6	10283.5	10486.3
35°	695.9	735.9	805.5	919.5	1390.4	2543.9	5475.7	9756.4	10826.9	11034.3
37.5°	658.9	693.0	762.5	847.0	1294.1	2401.7	5462.4	10329.4	11488.8	11728.7
40°	624.9	660.4	724.1	799.6	1197.9	2234.4	5469.8	10898.0	12193.7	12433.5
42.5°	598.2	638.2	690.0	786.3	1098.7	2099.6	5469.8	11392.6	12806.7	13037.7
45°	576.0	619.0	669.3	784.7	1020.2	1997.5	5432.7	11817.6	13295.3	13492.2
47.5°	556.7	604.1	676.7	758.2	1001.0	1923.5	5400.1	12158.1	13693.6	13878.7
50°	543.5	599.7	719.6	727.0	1006.8	1901.2	5557.1	12587.5	14044.5	14204.4
52.5°	533.0	601.1	718.1	681.1	996.5	1916.1	5884.3	13258.3	14531.7	14543.5
55°	512.3	599.7	681.1	629.3	953.6	1941.2	6304.9	14232.6	15294.3	15303.2
57.5°	491.6	583.4	632.3	584.9	866.2	1941.2	6811.3	15155.1	16213.8	16221.2
60°	470.9	607.1	555.2	546.4	752.2	1905.7	7345.8	15560.8	16502.5	16578.0
62.5°	450.1	611.5	496.0	512.3	669.3	1819.8	7744.1	15112.1	16111.6	16219.7
65°	426.5	493.1	457.5	476.8	626.4	1676.2	7618.3	14290.4	15377.2	15506.0
67.5°	398.3	417.6	416.0	439.8	611.5	1464.4	6954.9	13250.9	14586.5	14579.1
70°	364.2	374.6	379.0	404.3	583.4	1300.1	5795.5	11901.9	13530.8	13696.5
72.5°	328.7	337.6	342.0	364.2	555.2	1206.8	4498.4	10043.6	11719.8	11979.0
75°	290.2	296.1	302.1	321.3	525.6	1069.1	3204.3	7667.1	8976.1	9383.3
77.5°	250.3	250.3	257.7	276.9	442.7	882.5	2150.0	5377.9	6081.3	6497.3
80°	202.8	204.4	201.3	222.1	325.7	604.1	1221.6	3592.2	4046.8	4126.7
82.5°	155.5	151.0	152.5	162.9	242.8	411.7	651.5	2231.4	2274.4	2229.9
85°	97.7	97.7	94.8	106.6	155.5	214.7	355.4	1366.7	1067.6	1015.8
87.5°	39.9	32.5	37.0	43.0	74.0	87.4	139.2	281.3	108.1	99.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)