

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: P452552

Luminaire Tested: **GALN-SA3C-730-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452552
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-SA3C-730-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 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: 16476 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

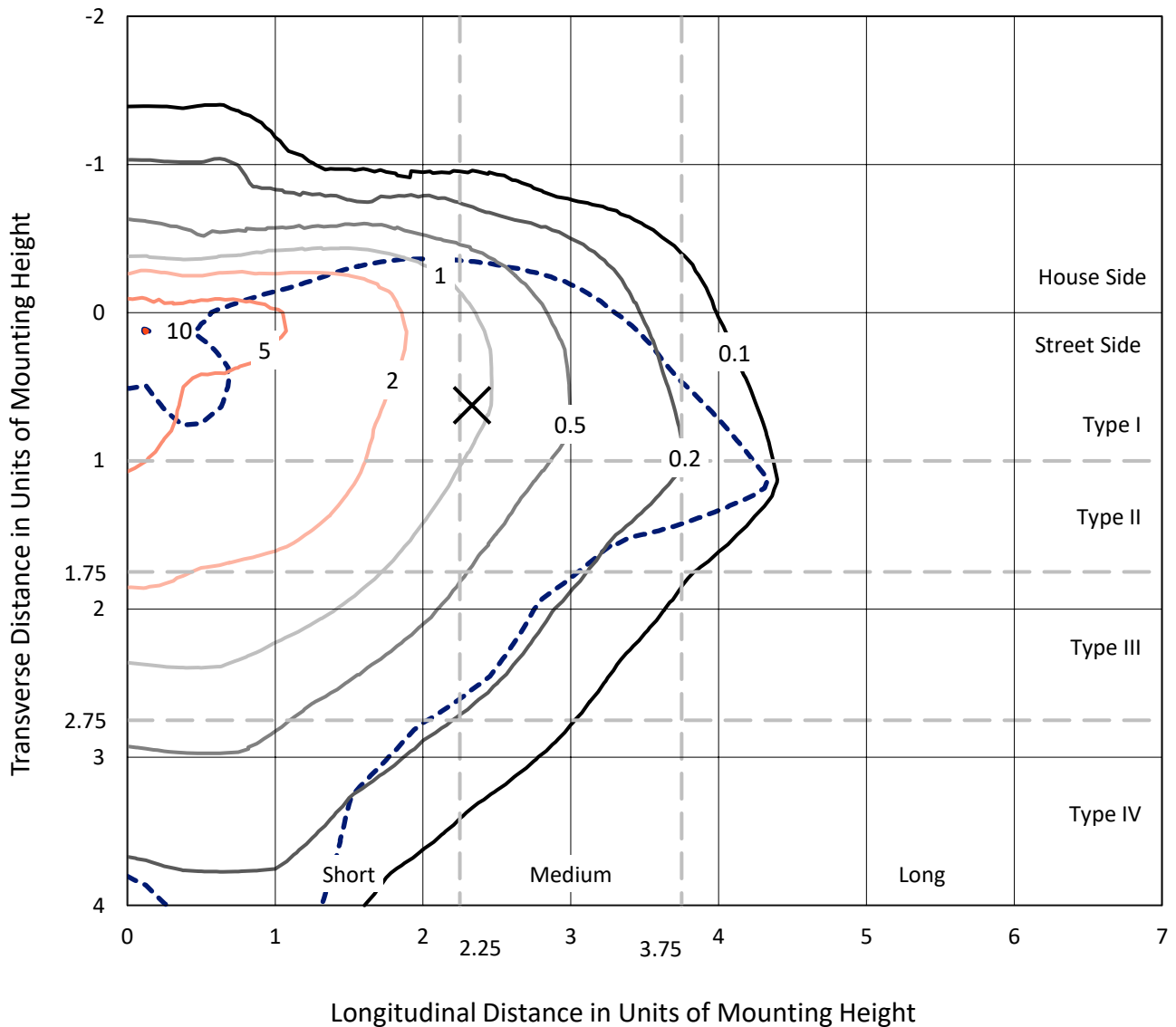
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

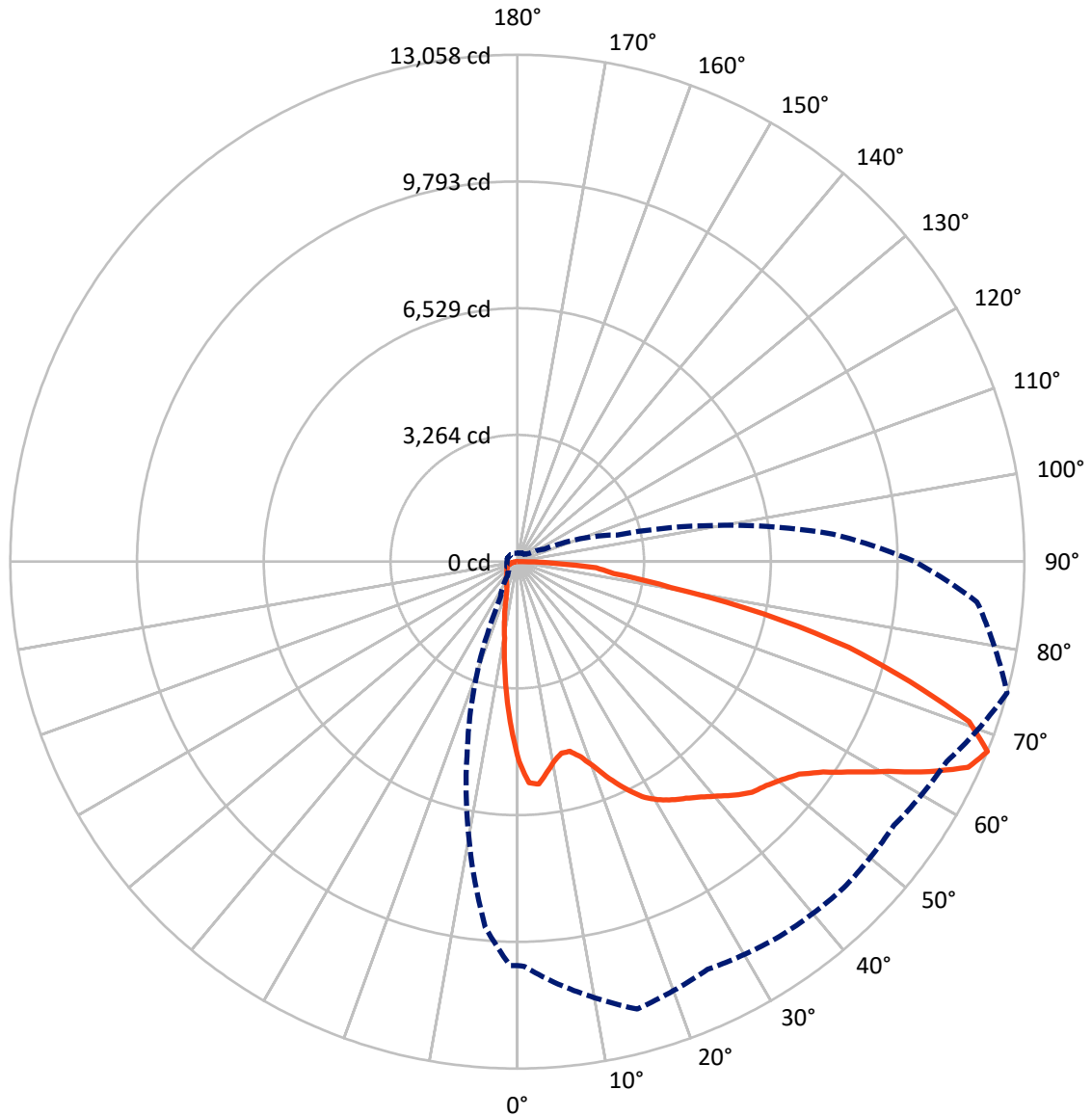
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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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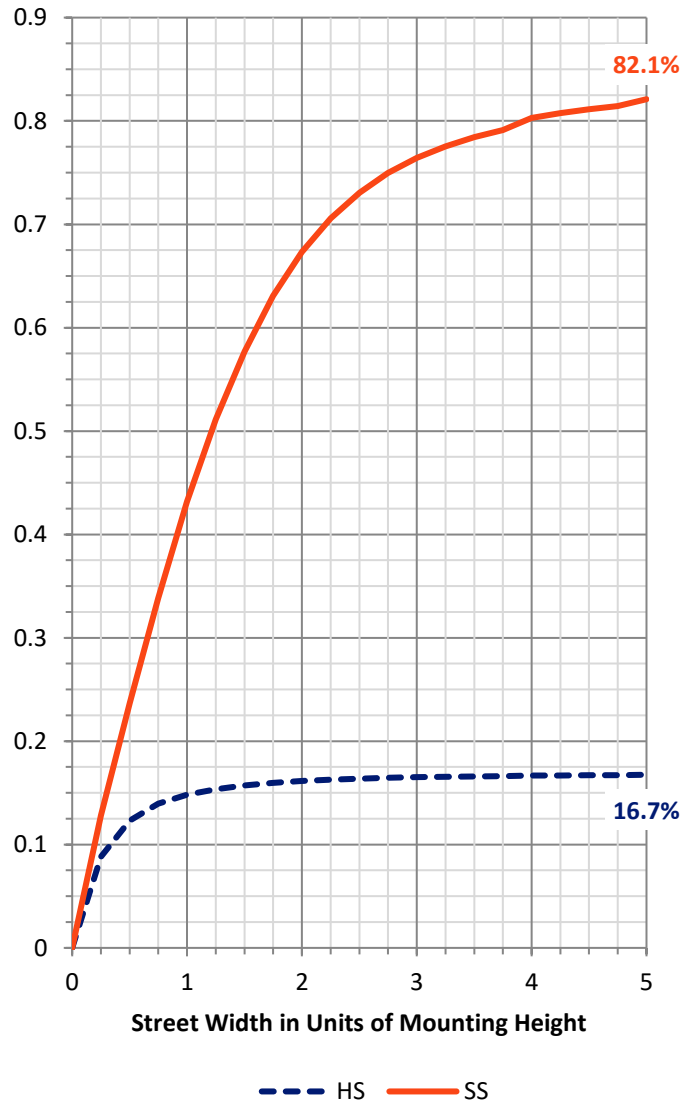
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2784.8	0.0	2784.8
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	13691.2	0.0	13691.2
	% Fixture	83.1	0.0	83.1
Total	Lumens	16476.0	0.0	16476.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.4	2.4
10°-20°	814.2	4.9
20°-30°	1171.7	7.1
30°-40°	1687.6	10.2
40°-50°	2370.6	14.4
50°-60°	3306.1	20.1
60°-70°	3930.8	23.9
70°-80°	2315.0	14.1
80°-90°	489.5	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°	16476.0	100.0
0°-180°	16476.0	100.0

Coefficient of Utilization



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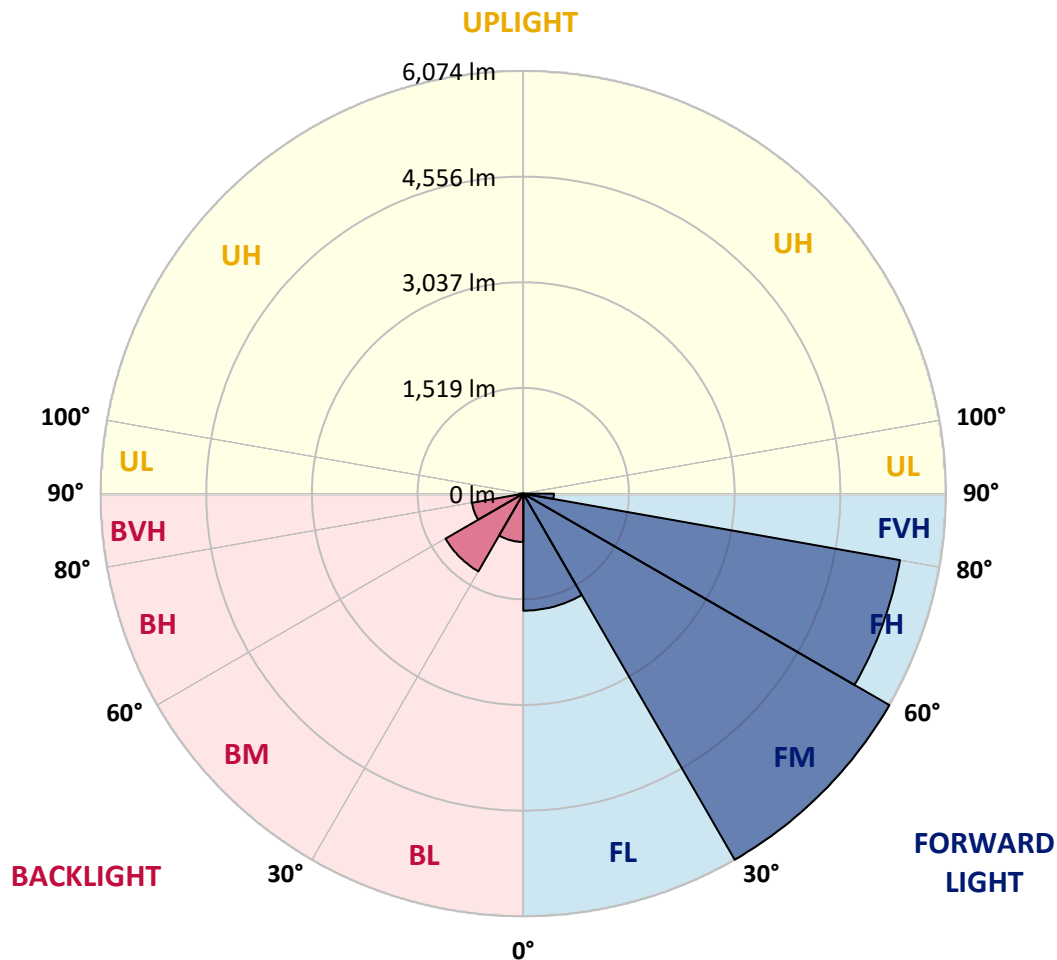
CATALOG NUMBER: GALN-SA3C-730-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1681.8	10.2			
FM	(30°-60°)	6074.1	36.9			
FH	(60°-80°)	5496.5	33.4			G3/7500
FVH	(80°-90°)	438.9	2.7			G3/500
BL	(0°-30°)	694.6	4.2	B2/1000		
BM	(30°-60°)	1290.2	7.8	B2/2500		
BH	(60°-80°)	749.3	4.5	B2/1000		G2/1000
BVH	(80°-90°)	50.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5
2.5°	5550.0	5557.4	5605.0	5743.4	5838.5	5873.3	5897.6	5852.2	5807.8	5700.1	5537.4
5°	5533.1	5576.4	5700.1	6010.7	6255.8	6361.5	6393.2	6256.9	6031.8	5755.0	5422.2
7.5°	5209.8	5267.9	5458.1	5979.0	6411.1	6658.4	6625.6	6379.4	5973.7	5480.3	5015.4
10°	4826.3	4890.8	5120.0	5749.7	6306.5	6646.7	6646.7	6346.7	5807.8	5221.5	4685.8
12.5°	4522.0	4589.6	4851.7	5514.1	6088.9	6411.1	6465.0	6207.2	5688.4	5057.7	4469.2
15°	4421.6	4487.2	4769.2	5371.5	5858.5	6055.1	6073.0	5988.5	5630.3	5069.3	4459.7
17.5°	4546.3	4630.8	4916.1	5413.7	5647.2	5658.9	5672.6	5739.2	5636.7	5281.7	4652.0
20°	4906.6	4997.5	5295.4	5550.0	5462.3	5341.9	5349.3	5520.5	5711.7	5632.4	5111.6
22.5°	5426.4	5505.7	5811.0	5789.9	5384.2	5135.9	5084.1	5322.9	5822.6	6069.9	5600.8
25°	5987.4	6080.4	6431.2	6145.9	5406.3	5013.3	4980.6	5206.7	5937.8	6478.7	6166.0
27.5°	6629.8	6720.7	6997.5	6505.2	5522.6	5003.8	4964.7	5196.1	6041.3	6857.0	6705.9
30°	7107.4	7190.9	7378.9	6807.3	5665.2	5067.2	5018.6	5279.6	6130.1	7115.8	7232.1
32.5°	7482.5	7569.1	7671.6	6995.4	5853.3	5182.4	5092.6	5431.7	6246.3	7313.4	7621.9
35°	7873.4	7975.9	7968.5	7162.3	6028.7	5315.5	5227.8	5651.5	6429.1	7485.6	8116.4
37.5°	8368.9	8410.1	8357.3	7312.4	6238.9	5555.3	5506.7	5977.9	6689.0	7693.8	8694.3
40°	8871.8	8954.2	8682.7	7494.1	6494.6	6006.5	6001.2	6460.8	6997.5	7937.8	9254.3
42.5°	9302.9	9372.6	8987.0	7652.6	6804.2	6556.9	6597.1	7108.4	7402.2	8221.0	9704.4
45°	9627.2	9689.6	9268.0	7805.8	7212.0	7193.0	7429.6	7802.6	7912.5	8475.6	9968.5
47.5°	9903.0	9963.2	9463.5	8038.2	7716.0	7952.6	8364.7	8526.3	8348.8	8621.4	10264.3
50°	10135.4	10153.4	9597.7	8315.0	8341.4	8883.4	9282.8	9387.4	8779.9	8830.6	10521.1
52.5°	10377.4	10354.2	9829.0	8663.7	9017.6	9766.7	10057.3	10166.1	9193.0	9088.4	10895.1
55°	10919.4	10941.6	10347.8	9103.2	9701.2	10634.1	11016.6	10912.0	9650.5	9562.8	11370.5
57.5°	11574.5	11555.4	11077.9	9791.0	10397.5	11441.3	11726.6	11558.6	10261.2	10214.7	11852.3
60°	11829.1	11854.4	11688.6	10530.6	11084.2	12148.2	12439.8	12178.8	10993.4	10972.2	12215.8
62.5°	11573.4	11716.0	11828.0	11188.8	11669.6	12668.0	12957.5	12659.5	11757.2	11910.4	12470.4
65°	11064.2	11094.8	11476.2	11746.7	11951.6	12753.6	12904.7	12746.2	12395.4	12765.2	12458.8
67.5°	10402.8	10429.2	10876.1	11929.5	11588.2	11781.5	11887.2	11840.7	12197.8	13057.9	11885.1
70°	9773.1	9751.9	10224.2	11463.5	10087.9	9794.2	9881.9	9736.1	10525.3	12342.6	10759.9
72.5°	8547.5	8623.5	9130.7	10168.2	7987.5	7509.9	7701.2	7324.0	8095.3	10570.7	8733.4
75°	6695.3	6713.3	7559.6	8533.7	6025.5	5272.2	5531.0	5373.6	6200.9	8817.9	6030.8
77.5°	4636.1	4596.0	5505.7	6517.8	4297.0	3859.6	3863.8	3788.8	4329.7	6492.5	4097.3
80°	2944.6	2883.3	3446.5	4026.5	2953.0	3159.1	3055.5	3052.4	2818.9	4005.4	2477.6
82.5°	1591.2	1658.8	2177.5	2524.1	2118.4	2441.7	2237.8	2172.3	1934.5	2507.2	1584.8
85°	724.8	788.2	1161.1	1716.9	1609.1	1627.1	1087.2	1282.6	1600.7	2036.0	846.3
87.5°	70.8	90.9	239.8	810.4	549.4	433.2	161.7	311.7	402.5	723.7	67.6
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°	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5
2.5°	5470.8	5415.9	5228.8	5074.6	4910.8	4786.2	4623.4	4514.6	4439.6	4326.6	4312.8
5°	5219.3	5085.2	4759.7	4428.0	4141.7	3926.1	3707.4	3506.7	3388.3	3351.4	3303.8
7.5°	4795.7	4569.6	4151.2	3770.8	3442.2	3121.0	2873.8	2698.4	2581.1	2512.5	2430.1
10°	4447.0	4185.0	3675.7	3209.8	2939.3	2739.6	2522.0	2333.9	2189.2	2065.5	1997.9
12.5°	4212.4	3916.6	3344.0	2965.7	2756.5	2544.2	2289.5	2078.2	1864.8	1724.3	1664.1
15°	4141.7	3828.9	3241.5	2844.2	2544.2	2266.3	1981.0	1705.3	1494.0	1360.8	1316.5
17.5°	4314.9	3936.7	3240.4	2682.6	2294.8	1963.1	1597.5	1338.6	1122.1	1022.7	991.0
20°	4638.2	4143.8	3249.9	2523.0	2024.3	1557.3	1162.2	949.8	846.3	804.0	788.2
22.5°	5089.4	4459.7	3278.5	2365.6	1728.5	1196.0	870.6	762.8	725.8	718.5	715.3
25°	5645.1	4850.6	3374.6	2224.0	1479.2	912.9	728.0	679.4	658.2	650.8	649.8
27.5°	6156.5	5355.6	3490.8	2102.5	1238.3	787.1	658.2	617.0	595.9	594.8	596.9
30°	6618.2	5778.3	3588.0	1966.2	1055.5	699.4	612.8	571.6	551.5	550.5	556.8
32.5°	7017.6	6125.9	3659.9	1832.1	954.1	645.5	571.6	527.2	510.3	507.1	510.3
35°	7444.4	6472.4	3627.1	1727.5	896.0	601.2	541.0	497.6	477.6	468.0	468.0
37.5°	7931.5	6829.5	3571.1	1640.8	869.5	564.2	514.5	472.3	452.2	442.7	441.6
40°	8462.9	7186.6	3494.0	1563.7	843.1	542.0	496.6	452.2	427.9	418.4	416.3
42.5°	8932.0	7492.0	3430.6	1513.0	799.8	546.2	480.7	437.4	406.8	394.1	393.0
45°	9339.9	7799.4	3419.0	1483.4	763.9	539.9	476.5	425.8	389.9	376.1	374.0
47.5°	9658.9	8119.6	3485.5	1466.5	724.8	506.1	504.0	418.4	375.1	360.3	358.2
50°	10047.8	8573.9	3637.7	1431.6	688.9	474.4	532.5	417.3	363.5	344.4	339.2
52.5°	10565.5	9165.5	3843.7	1369.3	637.1	444.8	508.2	417.3	349.7	330.7	324.4
55°	11348.4	9919.9	4045.5	1281.6	564.2	405.7	458.5	404.7	329.6	312.7	308.5
57.5°	11867.1	10471.4	4174.4	1160.1	473.3	377.2	395.1	384.6	309.6	291.6	291.6
60°	11893.5	10619.3	4113.1	1006.9	416.3	350.8	343.4	387.8	291.6	272.6	270.5
62.5°	11589.3	10256.9	3794.1	869.5	385.6	322.2	310.6	340.2	273.6	254.6	251.5
65°	11113.8	9332.5	3240.4	804.0	368.7	296.9	280.0	278.9	254.6	236.7	232.4
67.5°	10240.0	8155.5	2662.5	766.0	360.3	268.4	252.5	247.2	232.4	217.6	215.5
70°	8952.1	6830.6	2135.3	750.1	356.1	238.8	226.1	219.8	207.1	195.5	194.4
72.5°	6964.8	5540.5	1762.3	739.6	353.9	211.3	197.6	189.1	181.7	171.2	171.2
75°	5002.7	4076.2	1345.0	666.7	327.5	181.7	166.9	161.7	151.1	142.6	144.7
77.5°	3153.8	2744.9	885.4	490.2	253.6	145.8	133.1	130.0	121.5	109.9	117.3
80°	2130.0	1930.3	516.7	308.5	159.5	106.7	102.5	101.4	91.9	79.2	80.3
82.5°	1449.6	1422.1	268.4	175.4	91.9	62.3	60.2	62.3	51.8	42.3	42.3
85°	566.3	773.4	126.8	68.7	29.6	9.5	13.7	14.8	8.5	4.2	5.3
87.5°	10.6	79.2	3.2	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°	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5
2.5°	4291.7	4282.2	4298.0	4230.4	4244.1	4269.5	4282.2	4289.6	4394.2	4369.9	4436.4
5°	3348.2	3338.7	3400.0	3408.4	3440.1	3433.8	3464.4	3471.8	3509.8	3523.6	3616.6
7.5°	2435.3	2476.5	2546.3	2582.2	2636.1	2653.0	2637.1	2676.2	2597.0	2654.0	2670.9
10°	1956.7	1907.1	1877.5	1959.9	1970.5	2048.6	2016.9	1991.6	2038.1	2040.2	2084.6
12.5°	1629.2	1522.5	1451.7	1474.9	1500.3	1534.1	1539.4	1590.1	1623.9	1655.6	1682.0
15°	1277.4	1240.4	1175.9	1144.2	1180.2	1193.9	1226.6	1268.9	1304.8	1314.3	1350.3
17.5°	980.5	986.8	976.2	957.2	979.4	990.0	992.1	993.2	1002.7	996.3	1049.2
20°	789.2	811.4	837.8	842.1	849.5	854.7	845.2	809.3	810.4	832.6	849.5
22.5°	714.2	718.5	748.0	757.5	780.8	771.3	743.8	726.9	724.8	730.1	738.5
25°	655.1	661.4	682.5	697.3	715.3	698.4	678.3	662.5	660.3	665.6	674.1
27.5°	602.2	611.7	630.8	645.5	662.5	646.6	627.6	613.9	612.8	611.7	617.0
30°	560.0	570.5	584.3	601.2	612.8	599.1	581.1	573.7	572.6	570.5	572.6
32.5°	517.7	534.6	548.3	556.8	568.4	557.9	544.1	539.9	532.5	526.2	523.0
35°	470.2	488.1	509.3	519.8	531.4	520.9	511.4	493.4	480.7	479.7	481.8
37.5°	442.7	450.1	467.0	485.0	496.6	491.3	473.3	455.4	452.2	452.2	454.3
40°	418.4	421.6	429.0	452.2	473.3	457.5	435.3	430.0	430.0	429.0	430.0
42.5°	394.1	397.3	397.3	415.2	449.0	423.7	406.8	406.8	406.8	407.8	411.0
45°	371.9	373.0	371.9	384.6	416.3	395.1	383.5	386.7	388.8	390.9	393.0
47.5°	352.9	353.9	352.9	363.5	379.3	370.8	364.5	368.7	373.0	376.1	378.2
50°	336.0	334.9	337.0	343.4	350.8	352.9	348.7	355.0	357.1	361.3	366.6
52.5°	321.2	320.1	322.2	325.4	336.0	336.0	336.0	341.3	345.5	349.7	357.1
55°	304.3	305.3	308.5	312.7	326.5	324.4	325.4	329.6	333.9	340.2	344.4
57.5°	288.4	290.6	294.8	301.1	314.9	313.8	314.9	317.0	322.2	325.4	329.6
60°	270.5	274.7	280.0	284.2	297.9	296.9	302.2	306.4	309.6	309.6	311.7
62.5°	252.5	258.9	264.1	267.3	282.1	283.2	290.6	293.7	295.8	293.7	296.9
65°	234.6	244.1	246.2	250.4	265.2	266.2	274.7	282.1	280.0	277.9	283.2
67.5°	216.6	228.2	227.2	232.4	247.2	249.3	256.7	269.4	265.2	263.1	267.3
70°	196.5	205.0	206.0	209.2	229.3	226.1	237.7	249.3	246.2	247.2	247.2
72.5°	174.3	181.7	181.7	188.1	209.2	203.9	213.4	226.1	226.1	225.0	225.0
75°	147.9	152.1	156.4	165.9	188.1	181.7	188.1	199.7	201.8	199.7	199.7
77.5°	119.4	125.7	127.8	140.5	156.4	155.3	161.7	166.9	171.2	169.0	169.0
80°	84.5	90.9	99.3	113.1	122.6	125.7	128.9	133.1	135.2	135.2	137.4
82.5°	47.5	57.1	64.4	78.2	82.4	98.3	97.2	100.4	97.2	85.6	95.1
85°	10.6	20.1	28.5	35.9	41.2	57.1	60.2	67.6	56.0	51.8	51.8
87.5°	0.0	0.0	0.0	0.0	0.0	8.5	16.9	23.2	20.1	16.9	16.9
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°	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5
2.5°	4492.4	4584.4	4695.3	4886.5	5020.7	5165.5	5311.3	5466.6	5507.8	5550.0
5°	3641.9	3822.6	3920.8	4177.6	4447.0	4789.3	5069.3	5375.7	5503.5	5533.1
7.5°	2758.6	2881.2	3139.0	3398.9	3732.8	4092.0	4521.0	4998.5	5147.5	5209.8
10°	2187.1	2354.0	2580.1	2859.0	3151.7	3538.4	4022.3	4580.1	4791.4	4826.3
12.5°	1861.6	2047.6	2293.8	2588.5	2865.4	3157.0	3645.1	4220.9	4447.0	4522.0
15°	1488.7	1713.7	1997.9	2308.6	2609.7	2928.7	3423.2	4073.0	4334.0	4421.6
17.5°	1169.6	1351.3	1658.8	1995.8	2352.9	2756.5	3376.7	4143.8	4465.0	4546.3
20°	894.9	1024.8	1283.7	1639.8	2058.2	2586.4	3388.3	4411.1	4795.7	4906.6
22.5°	773.4	840.0	997.4	1336.5	1804.6	2438.5	3435.9	4777.7	5241.5	5426.4
25°	700.5	735.4	824.1	1046.0	1562.6	2294.8	3544.7	5271.1	5864.9	5987.4
27.5°	638.2	663.5	718.5	878.0	1342.9	2161.7	3671.5	5818.4	6447.0	6629.8
30°	579.0	612.8	664.6	779.7	1202.3	2040.2	3831.0	6262.1	6937.3	7107.4
32.5°	533.6	567.4	614.9	711.1	1083.0	1912.3	3926.1	6652.0	7337.7	7482.5
35°	496.6	525.1	574.8	656.1	992.1	1815.1	3907.1	6961.6	7725.5	7873.4
37.5°	470.2	494.5	544.1	604.3	923.4	1713.7	3897.6	7370.5	8197.7	8368.9
40°	445.9	471.2	516.7	570.5	854.7	1594.3	3902.9	7776.2	8700.7	8871.8
42.5°	426.8	455.4	492.4	561.0	784.0	1498.2	3902.9	8129.1	9138.1	9302.9
45°	411.0	441.6	477.6	560.0	728.0	1425.3	3876.5	8432.3	9486.7	9627.2
47.5°	397.3	431.1	482.8	541.0	714.2	1372.5	3853.2	8675.3	9770.9	9903.0
50°	387.8	427.9	513.5	518.8	718.5	1356.6	3965.2	8981.7	10021.3	10135.4
52.5°	380.4	429.0	512.4	486.0	711.1	1367.2	4198.7	9460.3	10368.9	10377.4
55°	365.6	427.9	486.0	449.0	680.4	1385.1	4498.8	10155.5	10913.1	10919.4
57.5°	350.8	416.3	451.1	417.3	618.1	1385.1	4860.1	10813.7	11569.2	11574.5
60°	336.0	433.2	396.2	389.9	536.7	1359.8	5241.5	11103.2	11775.2	11829.1
62.5°	321.2	436.4	353.9	365.6	477.6	1298.5	5525.7	10783.1	11496.3	11573.4
65°	304.3	351.8	326.5	340.2	446.9	1196.0	5435.9	10196.7	10972.2	11064.2
67.5°	284.2	297.9	296.9	313.8	436.4	1044.9	4962.6	9455.0	10408.0	10402.8
70°	259.9	267.3	270.5	288.4	416.3	927.6	4135.3	8492.5	9654.7	9773.1
72.5°	234.6	240.9	244.1	259.9	396.2	861.1	3209.8	7166.6	8362.6	8547.5
75°	207.1	211.3	215.5	229.3	375.1	762.8	2286.4	5470.8	6404.8	6695.3
77.5°	178.6	178.6	183.8	197.6	315.9	629.7	1534.1	3837.4	4339.2	4636.1
80°	144.7	145.8	143.7	158.5	232.4	431.1	871.7	2563.2	2887.5	2944.6
82.5°	110.9	107.8	108.8	116.2	173.3	293.7	464.9	1592.2	1622.9	1591.2
85°	69.7	69.7	67.6	76.1	110.9	153.2	253.6	975.2	761.8	724.8
87.5°	28.5	23.2	26.4	30.6	52.8	62.3	99.3	200.7	77.1	70.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)