

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: P459338

Luminaire Tested: **GALN-SA8A-735-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459338
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-735-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 29652 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

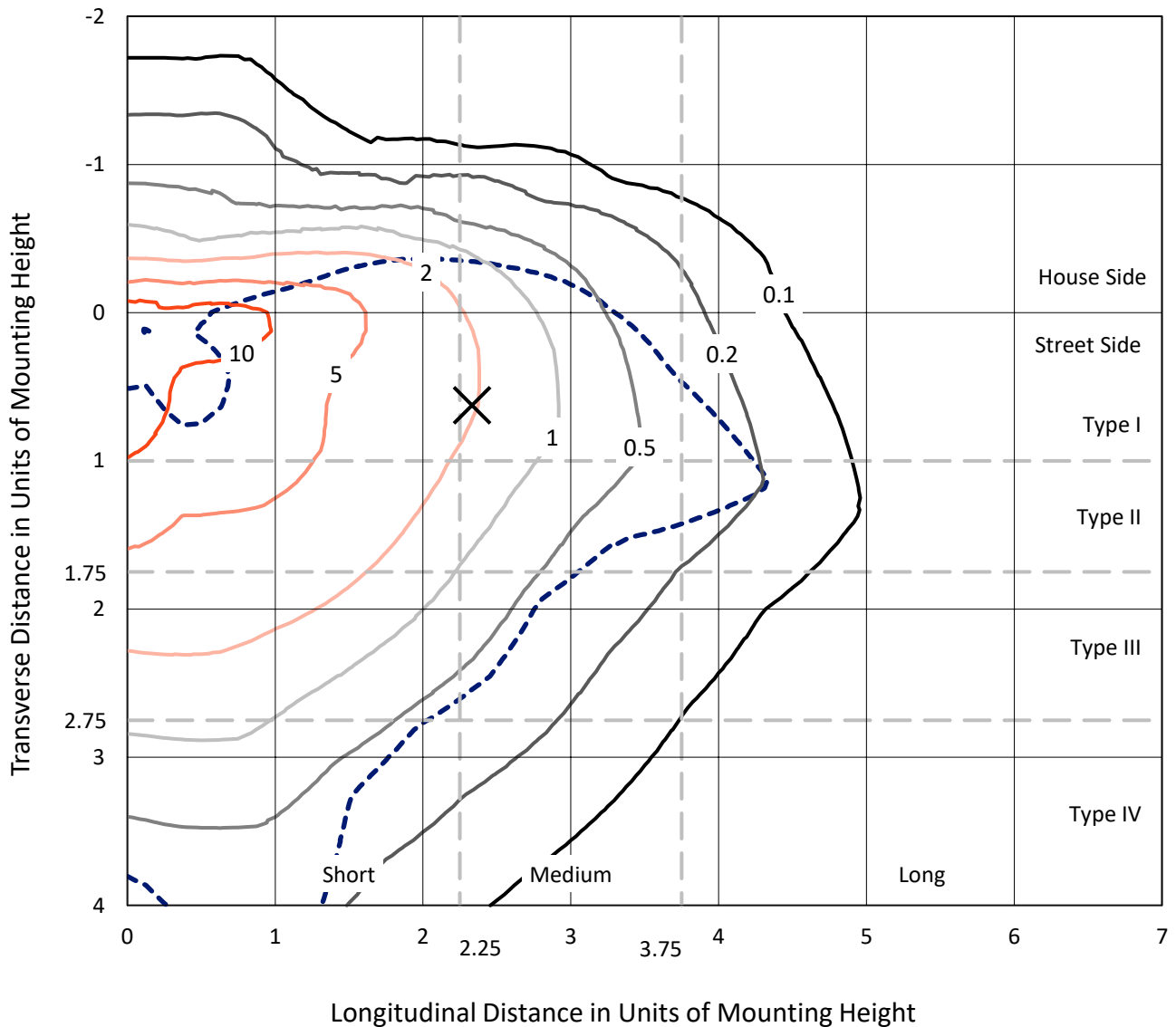
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

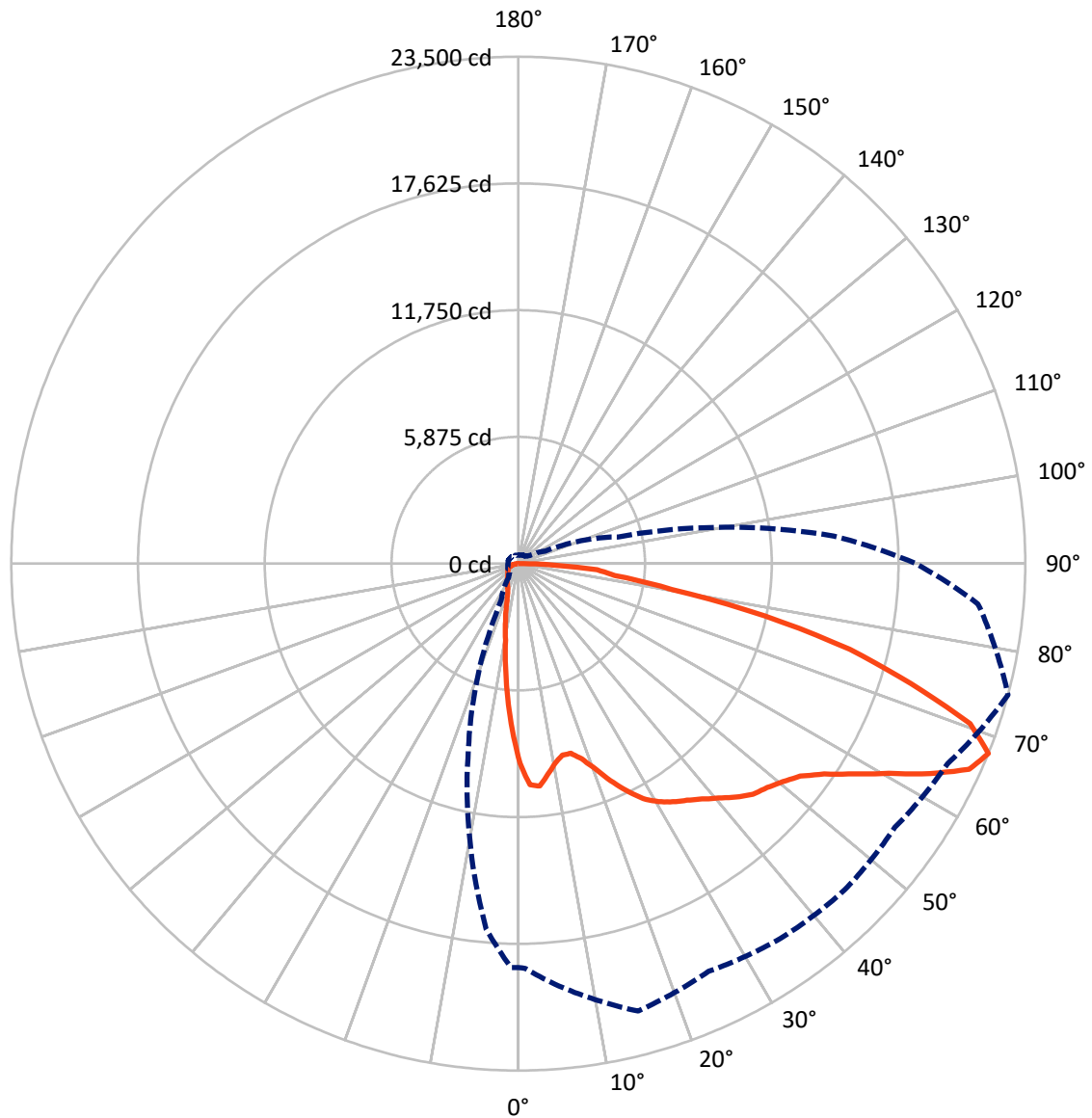
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 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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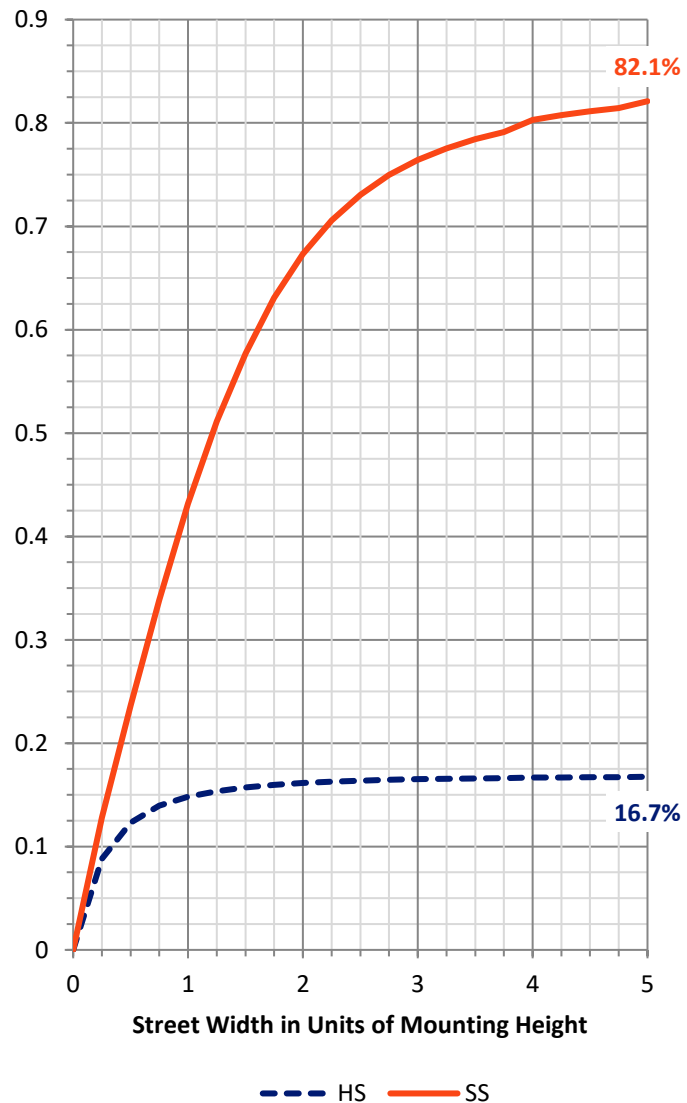
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5011.8	0.0	5011.8
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	24640.2	0.0	24640.2
	% Fixture	83.1	0.0	83.1
Total	Lumens	29652.0	0.0	29652.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	702.7	2.4
10°-20°	1465.4	4.9
20°-30°	2108.7	7.1
30°-40°	3037.1	10.2
40°-50°	4266.4	14.4
50°-60°	5950.1	20.1
60°-70°	7074.3	23.9
70°-80°	4166.3	14.1
80°-90°	881.0	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°	29652.0	100.0
0°-180°	29652.0	100.0



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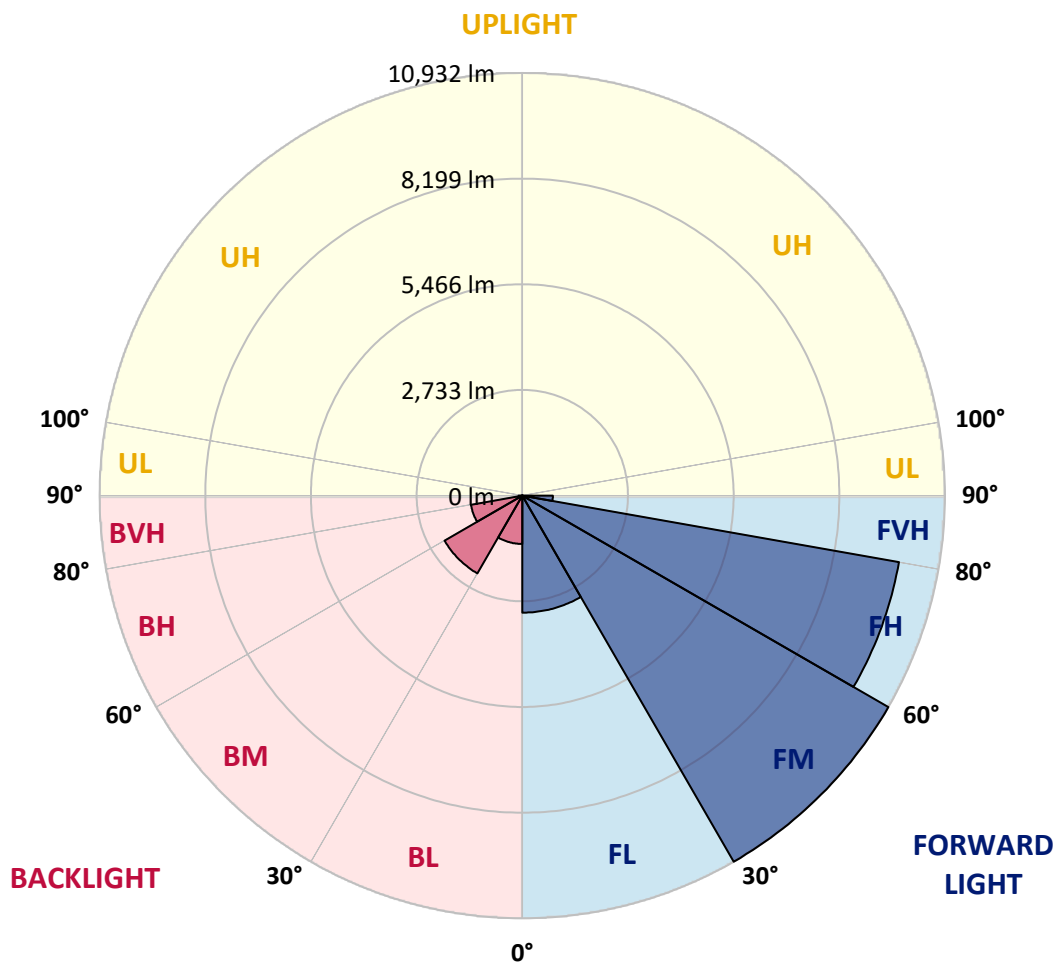
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3026.7	10.2			
FM	(30°-60°)	10931.6	36.9			
FH	(60°-80°)	9892.0	33.4			G4/12000
FVH	(80°-90°)	789.9	2.7			G5
BL	(0°-30°)	1250.1	4.2	B3/2500		
BM	(30°-60°)	2322.0	7.8	B2/2500		
BH	(60°-80°)	1348.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	91.1	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-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9264.0	9264.0	9264.0	9264.0	9264.0	9264.0	9264.0	9264.0	9264.0	9264.0	9264.0
2.5°	9988.4	10001.8	10087.3	10336.4	10507.6	10570.3	10614.0	10532.3	10452.4	10258.5	9965.6
5°	9958.0	10036.0	10258.5	10817.5	11258.6	11448.8	11505.8	11260.5	10855.5	10357.3	9758.4
7.5°	9376.2	9480.8	9823.0	10760.4	11538.2	11983.1	11924.2	11481.1	10750.9	9863.0	9026.3
10°	8685.9	8801.9	9214.5	10347.8	11349.9	11962.2	11962.2	11422.2	10452.4	9397.1	8433.0
12.5°	8138.3	8260.0	8731.6	9923.8	10958.2	11538.2	11635.1	11171.2	10237.5	9102.4	8043.2
15°	7957.7	8075.6	8583.3	9667.1	10543.7	10897.4	10929.7	10777.6	10133.0	9123.3	8026.1
17.5°	8182.0	8334.2	8847.6	9743.2	10163.4	10184.3	10209.0	10328.8	10144.4	9505.5	8372.2
20°	8830.5	8994.0	9530.2	9988.4	9830.6	9613.9	9627.2	9935.2	10279.4	10136.8	9199.3
22.5°	9766.0	9908.6	10458.1	10420.1	9689.9	9243.1	9149.9	9579.6	10479.0	10924.0	10079.7
25°	10775.7	10943.0	11574.3	11060.9	9729.8	9022.5	8963.6	9370.5	10686.3	11659.8	11097.0
27.5°	11931.8	12095.3	12593.5	11707.4	9939.0	9005.4	8935.0	9351.5	10872.6	12340.6	12068.7
30°	12791.2	12941.4	13279.9	12251.2	10195.7	9119.5	9032.0	9501.7	11032.4	12806.4	13015.6
32.5°	13466.2	13622.2	13806.6	12589.7	10534.2	9326.7	9165.1	9775.5	11241.5	13162.0	13717.2
35°	14169.8	14354.2	14340.9	12890.1	10849.8	9566.3	9408.5	10171.0	11570.5	13472.0	14607.1
37.5°	15061.6	15135.7	15040.7	13160.1	11228.2	9998.0	9910.5	10758.5	12038.2	13846.5	15647.2
40°	15966.7	16115.0	15626.3	13487.2	11688.4	10809.9	10800.4	11627.5	12593.5	14285.8	16655.0
42.5°	16742.5	16868.0	16173.9	13772.4	12245.5	11800.6	11872.8	12793.1	13321.7	14795.4	17465.0
45°	17326.2	17438.4	16679.7	14048.1	12979.5	12945.2	13371.2	14042.4	14240.1	15253.6	17940.4
47.5°	17822.5	17930.9	17031.5	14466.4	13886.5	14312.4	15054.0	15344.9	15025.5	15516.0	18472.8
50°	18240.9	18273.2	17273.0	14964.6	15012.1	15987.6	16706.4	16894.6	15801.3	15892.5	18934.9
52.5°	18676.3	18634.5	17689.4	15592.1	16229.1	17577.2	18100.1	18296.0	16544.7	16356.5	19608.0
55°	19651.7	19691.7	18623.0	16383.1	17459.3	19138.3	19826.7	19638.4	17368.1	17210.3	20463.7
57.5°	20830.7	20796.4	19937.0	17621.0	18712.4	20591.1	21104.5	20802.1	18467.1	18383.5	21330.7
60°	21288.9	21334.6	21036.0	18952.0	19948.4	21863.2	22388.0	21918.3	19784.8	19746.8	21984.9
62.5°	20828.8	21085.5	21287.0	20136.6	21001.8	22798.7	23319.7	22783.5	21159.6	21435.3	22443.1
65°	19912.2	19967.4	20653.8	21140.6	21509.5	22952.7	23224.6	22939.4	22308.1	22973.6	22422.2
67.5°	18721.9	18769.5	19573.8	21469.6	20855.4	21203.3	21393.5	21309.8	21952.5	23500.3	21389.7
70°	17588.6	17550.6	18400.6	20631.0	18155.3	17626.7	17784.5	17522.1	18942.5	22213.0	19364.6
72.5°	15382.9	15519.8	16432.5	18299.8	14375.2	13515.7	13859.9	13181.0	14569.1	19024.3	15717.6
75°	12049.6	12082.0	13605.1	15358.2	10844.1	9488.4	9954.2	9670.9	11159.8	15869.7	10853.6
77.5°	8343.7	8271.4	9908.6	11730.2	7733.3	6946.1	6953.7	6818.7	7792.2	11684.6	7373.9
80°	5299.4	5189.1	6202.6	7246.5	5314.6	5685.4	5499.1	5493.4	5073.1	7208.5	4459.0
82.5°	2863.6	2985.3	3918.9	4542.6	3812.5	4394.3	4027.3	3909.4	3481.6	4512.2	2852.2
85°	1304.4	1418.5	2089.7	3089.9	2895.9	2928.3	1956.6	2308.4	2880.7	3664.1	1523.1
87.5°	127.4	163.5	431.6	1458.4	988.8	779.6	290.9	560.9	724.5	1302.5	121.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9264.0	9264.0	9264.0	9264.0	9264.0	9264.0	9264.0	9264.0	9264.0	9264.0	9264.0
2.5°	9845.8	9747.0	9410.4	9132.8	8838.1	8613.7	8320.9	8125.0	7990.0	7786.5	7761.8
5°	9393.3	9151.8	8566.1	7969.1	7453.8	7065.9	6672.3	6311.0	6098.0	6031.5	5945.9
7.5°	8630.8	8223.9	7470.9	6786.4	6195.0	5617.0	5172.0	4856.4	4645.3	4521.7	4373.4
10°	8003.3	7531.7	6615.2	5776.7	5289.9	4930.5	4538.8	4200.4	3939.9	3717.4	3595.7
12.5°	7581.2	7048.8	6018.2	5337.4	4960.9	4578.8	4120.5	3740.2	3356.1	3103.2	2994.8
15°	7453.8	6890.9	5833.7	5118.8	4578.8	4078.7	3565.3	3069.0	2688.7	2449.1	2369.2
17.5°	7765.6	7084.9	5831.8	4827.8	4130.0	3532.9	2875.0	2409.2	2019.4	1840.6	1783.6
20°	8347.5	7457.6	5848.9	4540.7	3643.2	2802.8	2091.6	1709.4	1523.1	1447.0	1418.5
22.5°	9159.4	8026.1	5900.3	4257.4	3110.8	2152.5	1566.8	1372.9	1306.3	1293.0	1287.3
25°	10159.6	8729.7	6073.3	4002.6	2662.1	1642.9	1310.1	1222.6	1184.6	1171.3	1169.4
27.5°	11079.9	9638.6	6282.5	3783.9	2228.5	1416.6	1184.6	1110.5	1072.4	1070.5	1074.3
30°	11910.8	10399.2	6457.4	3538.6	1899.6	1258.8	1102.9	1028.7	992.6	990.7	1002.1
32.5°	12629.6	11024.8	6586.7	3297.2	1717.0	1161.8	1028.7	948.8	918.4	912.7	918.4
35°	13397.8	11648.4	6527.8	3108.9	1612.5	1081.9	973.6	895.6	859.5	842.4	842.4
37.5°	14274.4	12291.1	6427.0	2953.0	1564.9	1015.4	926.0	850.0	813.8	796.7	794.8
40°	15230.8	12933.8	6288.2	2814.2	1517.4	975.5	893.7	813.8	770.1	753.0	749.2
42.5°	16075.1	13483.4	6174.1	2722.9	1439.4	983.1	865.2	787.2	732.1	709.3	707.3
45°	16809.0	14036.7	6153.2	2669.7	1374.8	971.7	857.6	766.3	701.6	676.9	673.1
47.5°	17383.3	14612.8	6273.0	2639.2	1304.4	910.8	907.0	753.0	675.0	648.4	644.6
50°	18083.0	15430.5	6546.8	2576.5	1239.8	853.8	958.3	751.1	654.1	619.9	610.4
52.5°	19014.8	16495.3	6917.6	2464.3	1146.6	800.5	914.6	751.1	629.4	595.2	583.8
55°	20423.7	17852.9	7280.7	2306.5	1015.4	730.2	825.2	728.3	593.3	562.8	555.2
57.5°	21357.4	18845.5	7512.7	2087.8	851.9	678.8	711.2	692.1	557.1	524.8	524.8
60°	21404.9	19111.7	7402.4	1812.1	749.2	631.3	618.0	697.8	524.8	490.6	486.8
62.5°	20857.3	18459.5	6828.2	1564.9	694.0	579.9	559.0	612.3	492.5	458.3	452.6
65°	20001.6	16795.7	5831.8	1447.0	663.6	534.3	503.9	502.0	458.3	425.9	418.3
67.5°	18429.1	14677.5	4791.7	1378.6	648.4	483.0	454.5	444.9	418.3	391.7	387.9
70°	16111.2	12293.0	3842.9	1350.0	640.8	429.7	406.9	395.5	372.7	351.8	349.9
72.5°	12534.5	9971.3	3171.7	1331.0	637.0	380.3	355.6	340.4	327.1	308.0	308.0
75°	9003.5	7335.9	2420.6	1199.8	589.5	327.1	300.4	290.9	271.9	256.7	260.5
77.5°	5675.9	4940.0	1593.4	882.3	456.4	262.4	239.6	233.9	218.7	197.8	211.1
80°	3833.4	3474.0	929.8	555.2	287.1	192.0	184.4	182.5	165.4	142.6	144.5
82.5°	2608.8	2559.4	483.0	315.6	165.4	112.2	108.4	112.2	93.2	76.1	76.1
85°	1019.2	1391.9	228.2	123.6	53.2	17.1	24.7	26.6	15.2	7.6	9.5
87.5°	19.0	142.6	5.7	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°	9264.0	9264.0	9264.0	9264.0	9264.0	9264.0	9264.0	9264.0	9264.0	9264.0	9264.0
2.5°	7723.8	7706.7	7735.2	7613.5	7638.2	7683.9	7706.7	7720.0	7908.2	7864.5	7984.3
5°	6025.8	6008.7	6118.9	6134.2	6191.2	6179.8	6234.9	6248.2	6316.7	6341.4	6508.7
7.5°	4382.9	4457.1	4582.6	4647.2	4744.2	4774.6	4746.1	4816.4	4673.8	4776.5	4806.9
10°	3521.5	3432.2	3378.9	3527.2	3546.3	3687.0	3629.9	3584.3	3667.9	3671.7	3751.6
12.5°	2932.1	2740.0	2612.6	2654.5	2700.1	2760.9	2770.4	2861.7	2922.6	2979.6	3027.1
15°	2298.9	2232.3	2116.3	2059.3	2123.9	2148.7	2207.6	2283.7	2348.3	2365.4	2430.1
17.5°	1764.6	1776.0	1757.0	1722.7	1762.7	1781.7	1785.5	1787.4	1804.5	1793.1	1888.2
20°	1420.4	1460.3	1507.9	1515.5	1528.8	1538.3	1521.2	1456.5	1458.4	1498.4	1528.8
22.5°	1285.4	1293.0	1346.2	1363.4	1405.2	1388.1	1338.6	1308.2	1304.4	1313.9	1329.1
25°	1178.9	1190.3	1228.4	1255.0	1287.3	1256.9	1220.7	1192.2	1188.4	1197.9	1213.1
27.5°	1083.8	1101.0	1135.2	1161.8	1192.2	1163.7	1129.5	1104.8	1102.9	1101.0	1110.5
30°	1007.8	1026.8	1051.5	1081.9	1102.9	1078.1	1045.8	1032.5	1030.6	1026.8	1030.6
32.5°	931.7	962.1	986.9	1002.1	1023.0	1004.0	979.3	971.7	958.3	946.9	941.2
35°	846.2	878.5	916.5	935.5	956.4	937.4	920.3	888.0	865.2	863.3	867.1
37.5°	796.7	810.0	840.5	872.8	893.7	884.2	851.9	819.5	813.8	813.8	817.6
40°	753.0	758.7	772.0	813.8	851.9	823.3	783.4	773.9	773.9	772.0	773.9
42.5°	709.3	715.0	715.0	747.3	808.1	762.5	732.1	732.1	732.1	734.0	739.7
45°	669.3	671.2	669.3	692.1	749.2	711.2	690.2	695.9	699.7	703.5	707.3
47.5°	635.1	637.0	635.1	654.1	682.6	667.4	656.0	663.6	671.2	676.9	680.7
50°	604.7	602.8	606.6	618.0	631.3	635.1	627.5	638.9	642.7	650.3	659.8
52.5°	578.0	576.1	579.9	585.7	604.7	604.7	604.7	614.2	621.8	629.4	642.7
55°	547.6	549.5	555.2	562.8	587.6	583.8	585.7	593.3	600.9	612.3	619.9
57.5°	519.1	522.9	530.5	541.9	566.6	564.7	566.6	570.4	579.9	585.7	593.3
60°	486.8	494.4	503.9	511.5	536.2	534.3	543.8	551.4	557.1	557.1	560.9
62.5°	454.5	465.9	475.4	481.1	507.7	509.6	522.9	528.6	532.4	528.6	534.3
65°	422.1	439.2	443.0	450.6	477.3	479.2	494.4	507.7	503.9	500.1	509.6
67.5°	389.8	410.7	408.8	418.3	444.9	448.7	462.1	484.9	477.3	473.5	481.1
70°	353.7	368.9	370.8	376.5	412.6	406.9	427.8	448.7	443.0	444.9	444.9
72.5°	313.7	327.1	327.1	338.5	376.5	367.0	384.1	406.9	406.9	405.0	405.0
75°	266.2	273.8	281.4	298.5	338.5	327.1	338.5	359.4	363.2	359.4	359.4
77.5°	214.9	226.3	230.1	252.9	281.4	279.5	290.9	300.4	308.0	304.2	304.2
80°	152.1	163.5	178.7	203.5	220.6	226.3	232.0	239.6	243.4	243.4	247.2
82.5°	85.6	102.7	116.0	140.7	148.3	176.8	174.9	180.6	174.9	154.0	171.1
85°	19.0	36.1	51.3	64.7	74.2	102.7	108.4	121.7	100.8	93.2	93.2
87.5°	0.0	0.0	0.0	0.0	0.0	15.2	30.4	41.8	36.1	30.4	30.4
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°	9264.0	9264.0	9264.0	9264.0	9264.0	9264.0	9264.0	9264.0	9264.0	9264.0
2.5°	8085.1	8250.5	8450.2	8794.3	9035.8	9296.3	9558.7	9838.2	9912.4	9988.4
5°	6554.4	6879.5	7056.4	7518.4	8003.3	8619.4	9123.3	9674.7	9904.8	9958.0
7.5°	4964.8	5185.3	5649.3	6117.0	6717.9	7364.4	8136.4	8995.9	9264.0	9376.2
10°	3936.1	4236.5	4643.4	5145.4	5672.1	6368.0	7238.9	8242.9	8623.2	8685.9
12.5°	3350.4	3685.1	4128.1	4658.6	5156.8	5681.6	6560.1	7596.4	8003.3	8138.3
15°	2679.2	3084.2	3595.7	4154.7	4696.6	5270.9	6160.8	7330.2	7799.9	7957.7
17.5°	2104.9	2432.0	2985.3	3591.9	4234.6	4960.9	6077.1	7457.6	8035.6	8182.0
20°	1610.5	1844.4	2310.3	2951.1	3704.1	4654.8	6098.0	7938.7	8630.8	8830.5
22.5°	1391.9	1511.7	1795.0	2405.4	3247.7	4388.6	6183.6	8598.5	9433.2	9766.0
25°	1260.7	1323.4	1483.2	1882.5	2812.3	4130.0	6379.4	9486.5	10555.1	10775.7
27.5°	1148.5	1194.1	1293.0	1580.1	2416.8	3890.4	6607.6	10471.4	11602.8	11931.8
30°	1042.0	1102.9	1196.0	1403.3	2163.9	3671.7	6894.7	11270.0	12485.1	12791.2
32.5°	960.2	1021.1	1106.7	1279.7	1949.0	3441.7	7065.9	11971.7	13205.7	13466.2
35°	893.7	945.0	1034.4	1180.8	1785.5	3266.7	7031.7	12528.8	13903.6	14169.8
37.5°	846.2	889.9	979.3	1087.6	1661.9	3084.2	7014.5	13264.7	14753.5	15061.6
40°	802.4	848.1	929.8	1026.8	1538.3	2869.3	7024.0	13994.9	15658.6	15966.7
42.5°	768.2	819.5	886.1	1009.7	1410.9	2696.3	7024.0	14629.9	16445.9	16742.5
45°	739.7	794.8	859.5	1007.8	1310.1	2565.1	6976.5	15175.7	17073.3	17326.2
47.5°	715.0	775.8	869.0	973.6	1285.4	2470.0	6934.7	15613.0	17584.8	17822.5
50°	697.8	770.1	924.1	933.6	1293.0	2441.5	7136.2	16164.4	18035.5	18240.9
52.5°	684.5	772.0	922.2	874.7	1279.7	2460.5	7556.5	17025.8	18661.1	18676.3
55°	657.9	770.1	874.7	808.1	1224.5	2492.8	8096.5	18277.0	19640.3	19651.7
57.5°	631.3	749.2	811.9	751.1	1112.4	2492.8	8746.8	19461.6	20821.2	20830.7
60°	604.7	779.6	713.1	701.6	965.9	2447.2	9433.2	19982.6	21191.9	21288.9
62.5°	578.0	785.3	637.0	657.9	859.5	2336.9	9944.7	19406.5	20690.0	20828.8
65°	547.6	633.2	587.6	612.3	804.3	2152.5	9783.1	18351.1	19746.8	19912.2
67.5°	511.5	536.2	534.3	564.7	785.3	1880.6	8931.2	17016.3	18731.4	18721.9
70°	467.8	481.1	486.8	519.1	749.2	1669.5	7442.4	15284.1	17375.7	17588.6
72.5°	422.1	433.5	439.2	467.8	713.1	1549.7	5776.7	12897.7	15050.2	15382.9
75°	372.7	380.3	387.9	412.6	675.0	1372.9	4114.8	9845.8	11526.7	12049.6
77.5°	321.3	321.3	330.9	355.6	568.5	1133.3	2760.9	6906.2	7809.4	8343.7
80°	260.5	262.4	258.6	285.2	418.3	775.8	1568.7	4613.0	5196.7	5299.4
82.5°	199.7	194.0	195.9	209.2	311.8	528.6	836.6	2865.5	2920.7	2863.6
85°	125.5	125.5	121.7	136.9	199.7	275.7	456.4	1755.1	1371.0	1304.4
87.5°	51.3	41.8	47.5	55.1	95.1	112.2	178.7	361.3	138.8	127.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)