

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: P455510

Luminaire Tested: **GALN-SA6D-722-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455510
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-SA6D-722-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2200K, 1200mA 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: 29068 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

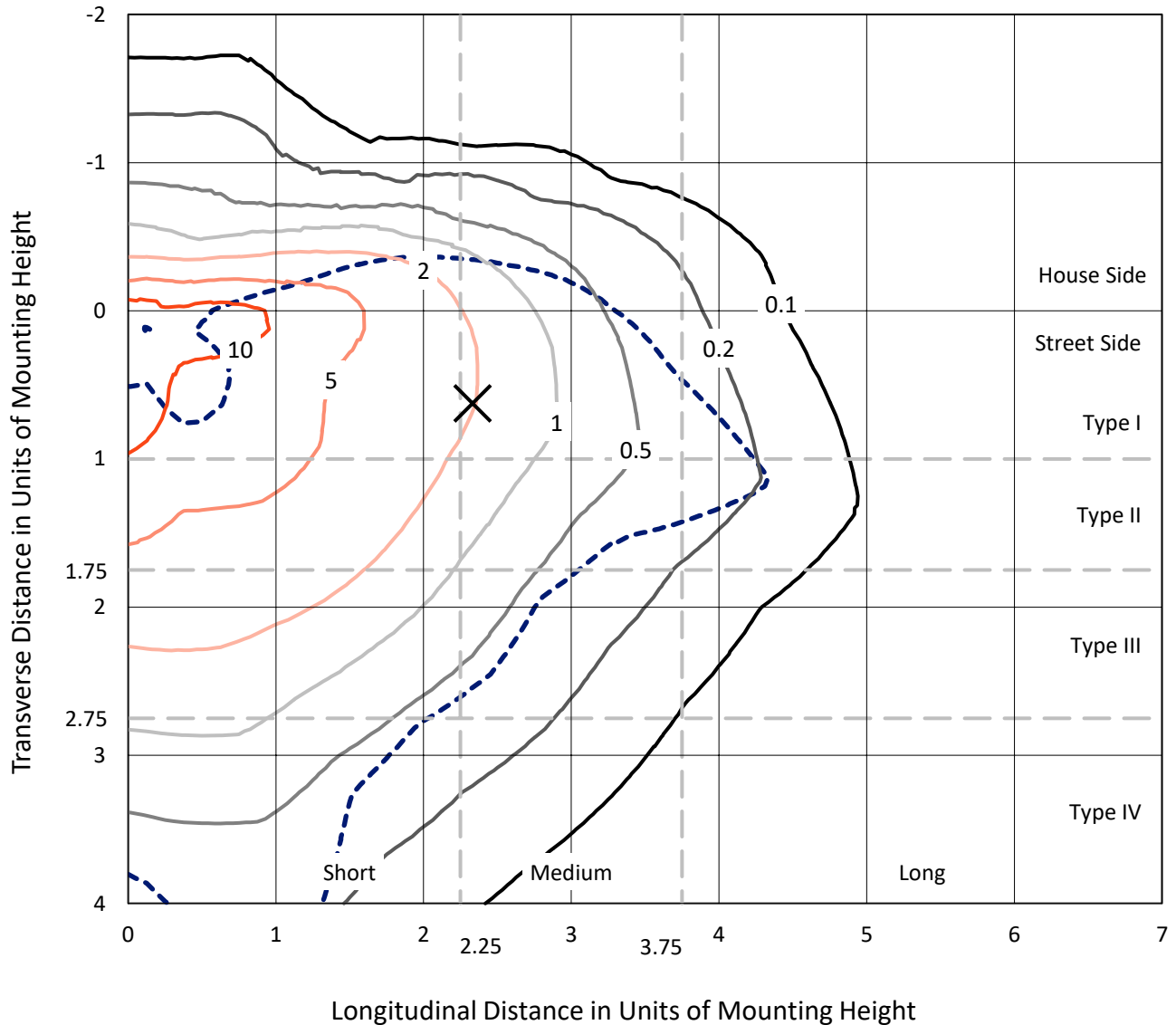
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

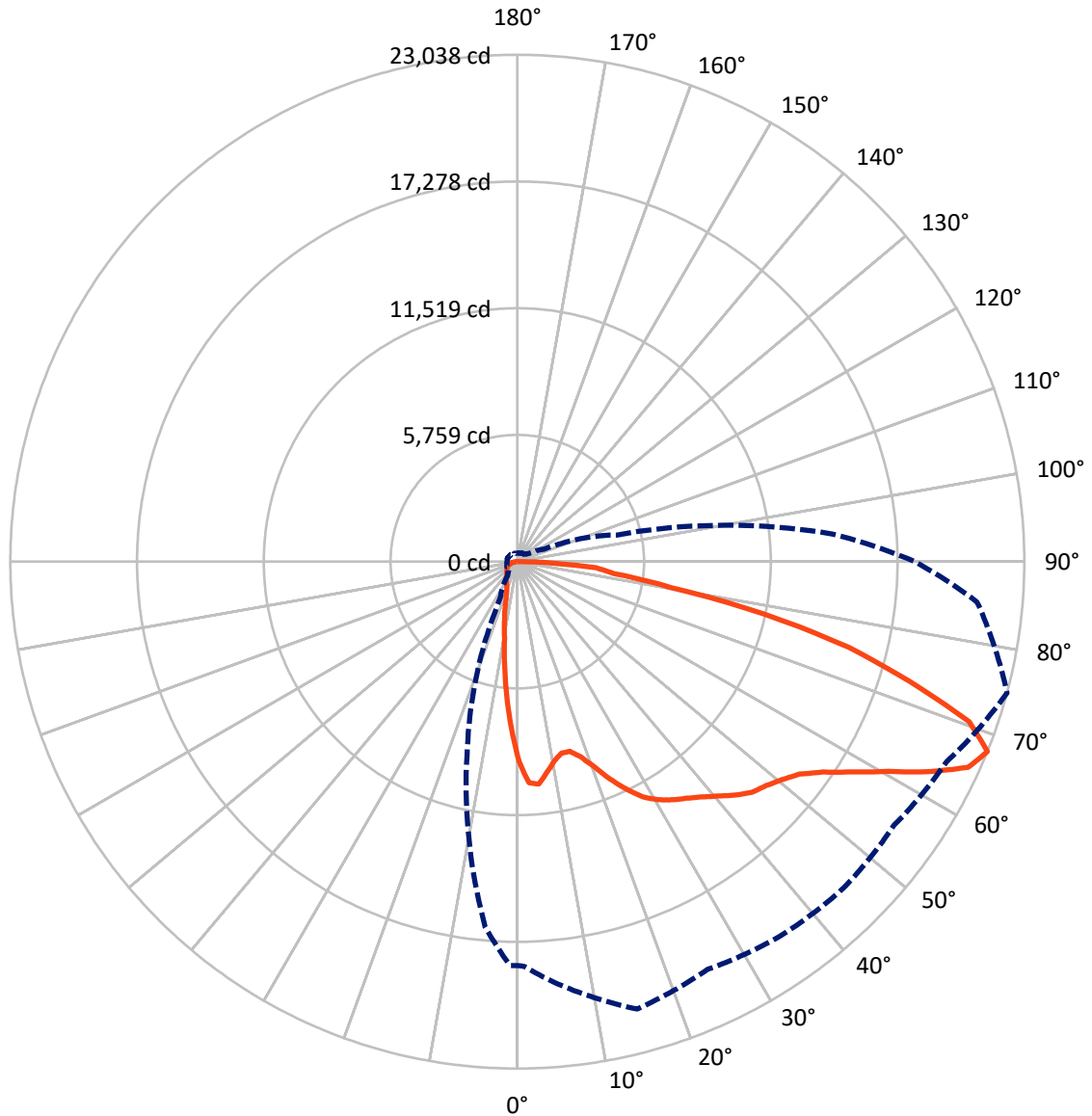
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 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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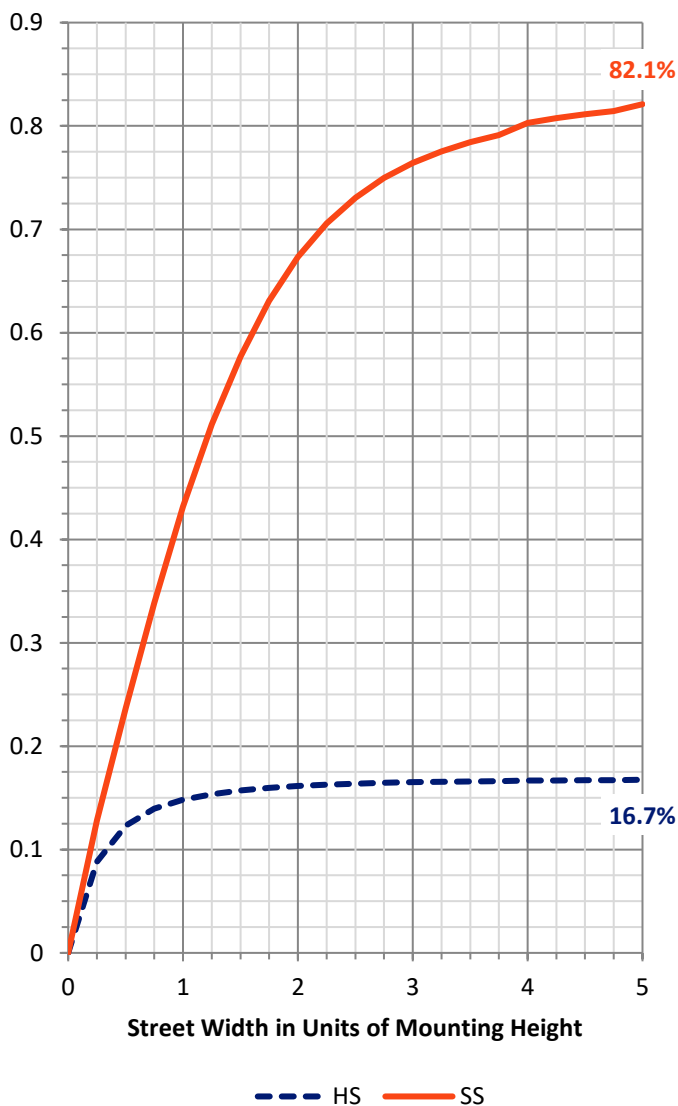
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4913.1	0.0	4913.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	24154.9	0.0	24154.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	29068.0	0.0	29068.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	688.8	2.4
10°-20°	1436.5	4.9
20°-30°	2067.2	7.1
30°-40°	2977.3	10.2
40°-50°	4182.3	14.4
50°-60°	5832.9	20.1
60°-70°	6934.9	23.9
70°-80°	4084.3	14.1
80°-90°	863.7	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°	29068.0	100.0
0°-180°	29068.0	100.0

Coefficient of Utilization



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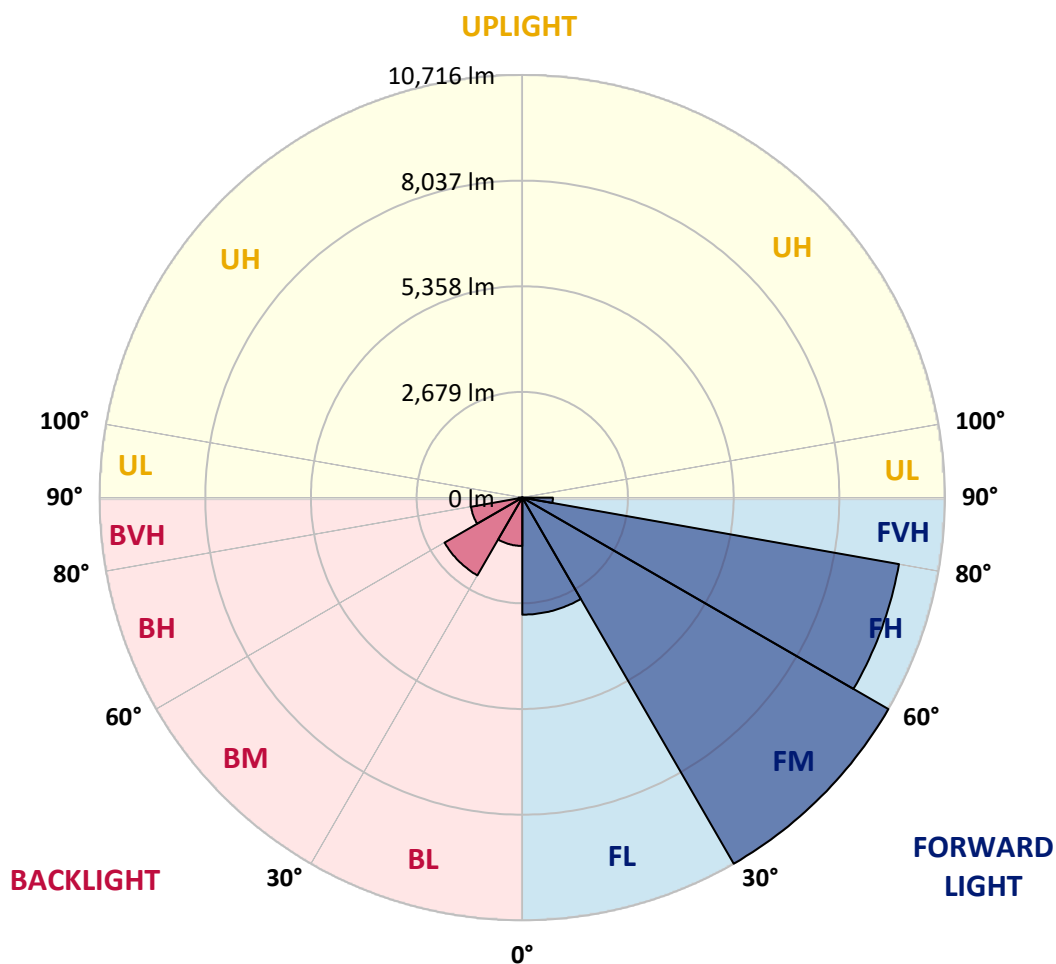
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2967.1	10.2			
FM	(30°-60°)	10716.3	36.9			
FH	(60°-80°)	9697.2	33.4			G4/12000
FVH	(80°-90°)	774.3	2.7			G5
BL	(0°-30°)	1225.5	4.2	B3/2500		
BM	(30°-60°)	2276.3	7.8	B2/2500		
BH	(60°-80°)	1322.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	89.3	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°	9081.5	9081.5	9081.5	9081.5	9081.5	9081.5	9081.5	9081.5	9081.5	9081.5	9081.5
2.5°	9791.7	9804.8	9888.7	10132.8	10300.6	10362.1	10405.0	10324.8	10246.5	10056.4	9769.4
5°	9761.9	9838.3	10056.4	10604.4	11036.9	11223.3	11279.2	11038.8	10641.7	10153.3	9566.2
7.5°	9191.5	9294.0	9629.6	10548.5	11310.9	11747.1	11689.3	11255.0	10539.2	9668.7	8848.5
10°	8514.9	8628.6	9033.1	10144.0	11126.4	11726.6	11726.6	11197.2	10246.5	9212.0	8267.0
12.5°	7978.0	8097.3	8559.6	9728.3	10742.4	11310.9	11406.0	10951.1	10035.9	8923.1	7884.8
15°	7800.9	7916.5	8414.2	9476.7	10336.0	10682.7	10714.4	10565.3	9933.4	8943.6	7868.1
17.5°	8020.9	8170.0	8673.3	9551.3	9963.2	9983.7	10008.0	10125.4	9944.6	9318.3	8207.3
20°	8656.5	8816.8	9342.5	9791.7	9637.0	9424.5	9437.6	9739.5	10076.9	9937.1	9018.2
22.5°	9573.6	9713.4	10252.1	10214.9	9499.1	9061.0	8969.7	9391.0	10272.6	10708.8	9881.2
25°	10563.4	10727.5	11346.3	10843.0	9538.2	8844.8	8787.0	9185.9	10475.8	11430.2	10878.5
27.5°	11696.8	11857.1	12345.4	11476.8	9743.3	8828.0	8759.1	9167.3	10658.5	12097.5	11831.0
30°	12539.3	12686.6	13018.4	12009.9	9994.9	8939.9	8854.1	9314.5	10815.1	12554.2	12759.3
32.5°	13201.0	13353.9	13534.7	12341.7	10326.7	9143.0	8984.6	9583.0	11020.1	12902.8	13447.1
35°	13890.7	14071.5	14058.5	12636.2	10636.1	9377.9	9223.2	9970.7	11342.6	13206.6	14319.4
37.5°	14764.9	14837.6	14744.4	12900.9	11007.1	9801.0	9715.3	10546.7	11801.1	13573.8	15339.1
40°	15652.2	15797.6	15318.6	13221.5	11458.2	10597.0	10587.7	11398.5	12345.4	14004.4	16327.0
42.5°	16412.7	16535.8	15855.4	13501.1	12004.3	11568.1	11639.0	12541.2	13059.4	14504.0	17121.1
45°	16985.0	17095.0	16351.2	13771.4	12723.8	12690.3	13107.8	13765.8	13959.7	14953.2	17587.1
47.5°	17471.5	17577.8	16696.1	14181.5	13613.0	14030.5	14757.5	15042.7	14729.5	15210.4	18109.0
50°	17881.6	17913.3	16932.8	14669.9	14716.5	15672.7	16377.3	16561.9	15490.0	15579.5	18562.0
52.5°	18308.5	18267.4	17341.0	15285.0	15909.5	17231.0	17743.7	17935.7	16218.9	16034.3	19221.8
55°	19264.7	19303.8	18256.3	16060.4	17115.5	18761.4	19436.2	19251.7	17026.0	16871.3	20060.6
57.5°	20420.4	20386.8	19544.3	17273.9	18343.9	20185.5	20688.8	20392.4	18103.4	18021.4	20910.6
60°	20869.6	20914.4	20621.7	18578.7	19555.5	21432.6	21947.0	21486.6	19395.2	19357.9	21551.9
62.5°	20418.5	20670.2	20867.8	19740.0	20588.2	22349.7	22860.4	22334.8	20742.9	21013.2	22001.1
65°	19520.1	19574.1	20247.0	20724.2	21085.9	22500.6	22767.2	22487.6	21868.7	22521.2	21980.6
67.5°	18353.2	18399.8	19188.3	21046.7	20444.6	20785.7	20972.1	20890.1	21520.2	23037.5	20968.4
70°	17242.2	17205.0	18038.2	20224.7	17797.7	17279.5	17434.2	17177.0	18569.4	21775.5	18983.2
72.5°	15080.0	15214.2	16108.9	17939.4	14092.0	13249.5	13586.9	12921.4	14282.2	18649.6	15408.0
75°	11812.3	11844.0	13337.1	15055.7	10630.5	9301.5	9758.2	9480.4	10940.0	15557.2	10639.9
77.5°	8179.3	8108.5	9713.4	11499.2	7581.0	6809.3	6816.7	6684.4	7638.8	11454.4	7228.7
80°	5195.0	5086.9	6080.5	7103.8	5210.0	5573.4	5390.8	5385.2	4973.2	7066.5	4371.1
82.5°	2807.2	2926.5	3841.8	4453.2	3737.4	4307.8	3948.0	3832.4	3413.0	4423.3	2796.0
85°	1278.7	1390.6	2048.6	3029.0	2838.9	2870.6	1918.1	2262.9	2824.0	3592.0	1493.1
87.5°	124.9	160.3	423.1	1429.7	969.3	764.3	285.2	549.9	710.2	1276.9	119.3
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°	9081.5	9081.5	9081.5	9081.5	9081.5	9081.5	9081.5	9081.5	9081.5	9081.5	9081.5
2.5°	9651.9	9555.0	9225.1	8952.9	8664.0	8444.0	8157.0	7965.0	7832.6	7633.2	7609.0
5°	9208.3	8971.6	8397.4	7812.1	7307.0	6926.7	6540.9	6186.7	5977.9	5912.7	5828.8
7.5°	8460.8	8061.9	7323.8	6652.7	6073.0	5506.3	5070.1	4760.7	4553.8	4432.7	4287.3
10°	7845.7	7383.4	6484.9	5662.9	5185.7	4833.4	4449.4	4117.6	3862.3	3644.2	3524.9
12.5°	7431.9	6909.9	5899.6	5232.3	4863.2	4488.6	4039.3	3666.5	3290.0	3042.1	2935.8
15°	7307.0	6755.2	5718.8	5018.0	4488.6	3998.3	3495.0	3008.5	2635.7	2400.9	2322.6
17.5°	7612.7	6945.4	5717.0	4732.8	4048.7	3463.4	2818.4	2361.7	1979.6	1804.4	1748.5
20°	8183.1	7310.7	5733.7	4451.3	3571.5	2747.6	2050.4	1675.8	1493.1	1418.5	1390.6
22.5°	8979.0	7868.1	5784.1	4173.6	3049.5	2110.1	1536.0	1345.8	1280.6	1267.5	1261.9
25°	9959.5	8557.7	5953.7	3923.8	2609.6	1610.5	1284.3	1198.6	1161.3	1148.2	1146.4
27.5°	10861.7	9448.7	6158.7	3709.4	2184.6	1388.7	1161.3	1088.6	1051.3	1049.4	1053.2
30°	11676.3	10194.4	6330.2	3469.0	1862.2	1234.0	1081.1	1008.4	973.0	971.2	982.3
32.5°	12380.9	10807.6	6457.0	3232.2	1683.2	1138.9	1008.4	930.1	900.3	894.7	900.3
35°	13133.9	11419.0	6399.2	3047.7	1580.7	1060.6	954.4	878.0	842.5	825.8	825.8
37.5°	13993.2	12049.1	6300.4	2894.8	1534.1	995.4	907.8	833.2	797.8	781.0	779.2
40°	14930.8	12679.1	6164.3	2758.8	1487.5	956.2	876.1	797.8	754.9	738.2	734.4
42.5°	15758.5	13217.8	6052.5	2669.3	1411.1	963.7	848.1	771.7	717.6	695.3	693.4
45°	16478.0	13760.2	6032.0	2617.1	1347.7	952.5	840.7	751.2	687.8	663.6	659.9
47.5°	17040.9	14325.0	6149.4	2587.3	1278.7	892.9	889.1	738.2	661.7	635.6	631.9
50°	17726.9	15126.6	6417.8	2525.8	1215.3	836.9	939.5	736.3	641.2	607.7	598.4
52.5°	18640.3	16170.4	6781.3	2415.8	1124.0	784.8	896.6	736.3	617.0	583.4	572.3
55°	20021.5	17501.3	7137.4	2261.1	995.4	715.8	809.0	713.9	581.6	551.8	544.3
57.5°	20936.7	18474.4	7364.8	2046.7	835.1	665.5	697.1	678.5	546.2	514.5	514.5
60°	20983.3	18735.3	7256.7	1776.4	734.4	618.9	605.8	684.1	514.5	480.9	477.2
62.5°	20446.5	18096.0	6693.7	1534.1	680.4	568.5	548.0	600.2	482.8	449.2	443.6
65°	19607.7	16464.9	5717.0	1418.5	650.5	523.8	494.0	492.1	449.2	417.5	410.1
67.5°	18066.1	14388.4	4697.3	1351.4	635.6	473.5	445.5	436.2	410.1	384.0	380.3
70°	15793.9	12050.9	3767.2	1323.5	628.2	421.3	398.9	387.7	365.3	344.8	343.0
72.5°	12287.7	9774.9	3109.2	1304.8	624.4	372.8	348.6	333.7	320.6	302.0	302.0
75°	8826.2	7191.4	2372.9	1176.2	577.8	320.6	294.5	285.2	266.6	251.6	255.4
77.5°	5564.1	4842.7	1562.1	864.9	447.4	257.2	234.9	229.3	214.4	193.9	206.9
80°	3757.9	3405.6	911.5	544.3	281.5	188.3	180.8	178.9	162.2	139.8	141.7
82.5°	2557.4	2509.0	473.5	309.4	162.2	110.0	106.2	110.0	91.3	74.6	74.6
85°	999.1	1364.5	223.7	121.2	52.2	16.8	24.2	26.1	14.9	7.5	9.3
87.5°	18.6	139.8	5.6	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°	9081.5	9081.5	9081.5	9081.5	9081.5	9081.5	9081.5	9081.5	9081.5	9081.5	9081.5
2.5°	7571.7	7554.9	7582.9	7463.6	7487.8	7532.5	7554.9	7567.9	7752.5	7709.6	7827.0
5°	5907.1	5890.3	5998.4	6013.3	6069.3	6058.1	6112.1	6125.2	6192.3	6216.5	6380.6
7.5°	4296.6	4369.3	4492.3	4555.7	4650.7	4680.6	4652.6	4721.6	4581.8	4682.4	4712.3
10°	3452.2	3364.6	3312.4	3457.8	3476.4	3614.3	3558.4	3513.7	3595.7	3599.4	3677.7
12.5°	2874.3	2686.1	2561.2	2602.2	2646.9	2706.6	2715.9	2805.4	2865.0	2920.9	2967.5
15°	2253.6	2188.4	2074.7	2018.7	2082.1	2106.3	2164.1	2238.7	2302.1	2318.8	2382.2
17.5°	1729.8	1741.0	1722.4	1688.8	1728.0	1746.6	1750.3	1752.2	1769.0	1757.8	1851.0
20°	1392.4	1431.6	1478.2	1485.6	1498.7	1508.0	1491.2	1427.8	1429.7	1468.9	1498.7
22.5°	1260.1	1267.5	1319.7	1336.5	1377.5	1360.7	1312.3	1282.4	1278.7	1288.0	1303.0
25°	1155.7	1166.9	1204.2	1230.3	1261.9	1232.1	1196.7	1168.7	1165.0	1174.3	1189.2
27.5°	1062.5	1079.3	1112.8	1138.9	1168.7	1140.8	1107.2	1083.0	1081.1	1079.3	1088.6
30°	987.9	1006.6	1030.8	1060.6	1081.1	1056.9	1025.2	1012.2	1010.3	1006.6	1010.3
32.5°	913.4	943.2	967.4	982.3	1002.8	984.2	960.0	952.5	939.5	928.3	922.7
35°	829.5	861.2	898.5	917.1	937.6	919.0	902.2	870.5	848.1	846.3	850.0
37.5°	781.0	794.1	823.9	855.6	876.1	866.8	835.1	803.4	797.8	797.8	801.5
40°	738.2	743.7	756.8	797.8	835.1	807.1	768.0	758.7	758.7	756.8	758.7
42.5°	695.3	700.9	700.9	732.6	792.2	747.5	717.6	717.6	717.6	719.5	725.1
45°	656.1	658.0	656.1	678.5	734.4	697.1	676.6	682.2	686.0	689.7	693.4
47.5°	622.6	624.4	622.6	641.2	669.2	654.3	643.1	650.5	658.0	663.6	667.3
50°	592.8	590.9	594.6	605.8	618.9	622.6	615.1	626.3	630.0	637.5	646.8
52.5°	566.7	564.8	568.5	574.1	592.8	592.8	592.8	602.1	609.5	617.0	630.0
55°	536.8	538.7	544.3	551.8	576.0	572.3	574.1	581.6	589.0	600.2	607.7
57.5°	508.9	512.6	520.1	531.2	555.5	553.6	555.5	559.2	568.5	574.1	581.6
60°	477.2	484.6	494.0	501.4	525.7	523.8	533.1	540.6	546.2	546.2	549.9
62.5°	445.5	456.7	466.0	471.6	497.7	499.6	512.6	518.2	521.9	518.2	523.8
65°	413.8	430.6	434.3	441.8	467.9	469.7	484.6	497.7	494.0	490.2	499.6
67.5°	382.1	402.6	400.8	410.1	436.2	439.9	453.0	475.3	467.9	464.1	471.6
70°	346.7	361.6	363.5	369.1	404.5	398.9	419.4	439.9	434.3	436.2	436.2
72.5°	307.6	320.6	320.6	331.8	369.1	359.8	376.5	398.9	398.9	397.0	397.0
75°	261.0	268.4	275.9	292.7	331.8	320.6	331.8	352.3	356.0	352.3	352.3
77.5°	210.6	221.8	225.5	247.9	275.9	274.0	285.2	294.5	302.0	298.2	298.2
80°	149.1	160.3	175.2	199.5	216.2	221.8	227.4	234.9	238.6	238.6	242.3
82.5°	83.9	100.7	113.7	137.9	145.4	173.4	171.5	177.1	171.5	151.0	167.8
85°	18.6	35.4	50.3	63.4	72.7	100.7	106.2	119.3	98.8	91.3	91.3
87.5°	0.0	0.0	0.0	0.0	0.0	14.9	29.8	41.0	35.4	29.8	29.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9081.5	9081.5	9081.5	9081.5	9081.5	9081.5	9081.5	9081.5	9081.5	9081.5
2.5°	7925.8	8088.0	8283.7	8621.1	8857.8	9113.2	9370.5	9644.5	9717.2	9791.7
5°	6425.3	6744.0	6917.4	7370.4	7845.7	8449.6	8943.6	9484.2	9709.7	9761.9
7.5°	4867.0	5083.2	5538.0	5996.6	6585.6	7219.4	7976.2	8818.7	9081.5	9191.5
10°	3858.5	4153.0	4551.9	5044.1	5560.4	6242.6	7096.3	8080.5	8453.4	8514.9
12.5°	3284.4	3612.5	4046.8	4566.9	5055.2	5569.7	6430.9	7446.8	7845.7	7978.0
15°	2626.4	3023.4	3524.9	4072.9	4604.1	5167.1	6039.4	7185.8	7646.2	7800.9
17.5°	2063.5	2384.1	2926.5	3521.1	4151.2	4863.2	5957.4	7310.7	7877.4	8020.9
20°	1578.8	1808.1	2264.8	2893.0	3631.1	4563.1	5977.9	7782.3	8460.8	8656.5
22.5°	1364.5	1481.9	1759.6	2358.0	3183.8	4302.2	6061.8	8429.1	9247.4	9573.6
25°	1235.8	1297.4	1453.9	1845.4	2756.9	4048.7	6253.8	9299.6	10347.2	10563.4
27.5°	1125.9	1170.6	1267.5	1549.0	2369.2	3813.8	6477.5	10265.2	11374.3	11696.8
30°	1021.5	1081.1	1172.5	1375.7	2121.3	3599.4	6759.0	11048.1	12239.2	12539.3
32.5°	941.3	1001.0	1084.9	1254.5	1910.6	3373.9	6926.7	11735.9	12945.7	13201.0
35°	876.1	926.4	1014.0	1157.6	1750.3	3202.4	6893.2	12282.1	13629.8	13890.7
37.5°	829.5	872.4	960.0	1066.2	1629.2	3023.4	6876.4	13003.4	14463.0	14764.9
40°	786.6	831.4	911.5	1006.6	1508.0	2812.8	6885.7	13719.2	15350.2	15652.2
42.5°	753.1	803.4	868.6	989.8	1383.1	2643.2	6885.7	14341.8	16122.0	16412.7
45°	725.1	779.2	842.5	987.9	1284.3	2514.6	6839.1	14876.8	16737.1	16985.0
47.5°	700.9	760.5	851.9	954.4	1260.1	2421.4	6798.1	15305.5	17238.5	17471.5
50°	684.1	754.9	905.9	915.2	1267.5	2393.4	6995.7	15846.1	17680.3	17881.6
52.5°	671.0	756.8	904.1	857.5	1254.5	2412.0	7407.6	16690.5	18293.5	18308.5
55°	645.0	754.9	857.5	792.2	1200.4	2443.7	7937.0	17917.0	19253.5	19264.7
57.5°	618.9	734.4	795.9	736.3	1090.5	2443.7	8574.5	19078.3	20411.1	20420.4
60°	592.8	764.3	699.0	687.8	946.9	2399.0	9247.4	19589.0	20774.6	20869.6
62.5°	566.7	769.8	624.4	645.0	842.5	2290.9	9748.9	19024.2	20282.5	20418.5
65°	536.8	620.7	576.0	600.2	788.5	2110.1	9590.4	17989.7	19357.9	19520.1
67.5°	501.4	525.7	523.8	553.6	769.8	1843.5	8755.3	16681.2	18362.5	18353.2
70°	458.6	471.6	477.2	508.9	734.4	1636.6	7295.8	14983.0	17033.5	17242.2
72.5°	413.8	425.0	430.6	458.6	699.0	1519.2	5662.9	12643.7	14753.8	15080.0
75°	365.3	372.8	380.3	404.5	661.7	1345.8	4033.8	9651.9	11299.7	11812.3
77.5°	315.0	315.0	324.3	348.6	557.3	1111.0	2706.6	6770.1	7655.6	8179.3
80°	255.4	257.2	253.5	279.6	410.1	760.5	1537.8	4522.1	5094.4	5195.0
82.5°	195.7	190.1	192.0	205.0	305.7	518.2	820.2	2809.1	2863.1	2807.2
85°	123.0	123.0	119.3	134.2	195.7	270.3	447.4	1720.5	1344.0	1278.7
87.5°	50.3	41.0	46.6	54.1	93.2	110.0	175.2	354.2	136.1	124.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)