

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: P456728

Luminaire Tested: **GALN-SA8A-730-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456728
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-730-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 28989 lumens
Efficiency: N/A
Efficacy: 118.8 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

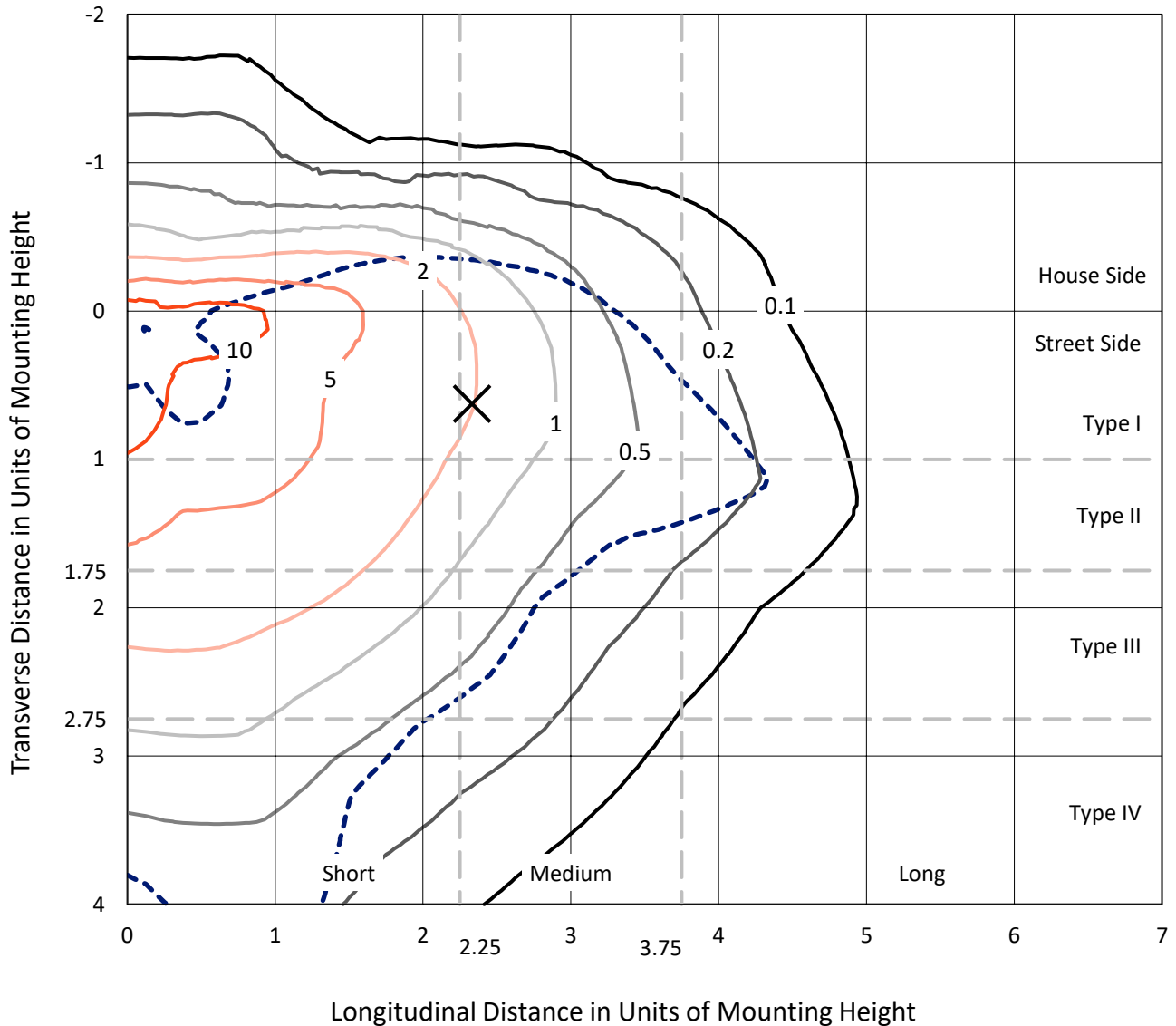
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

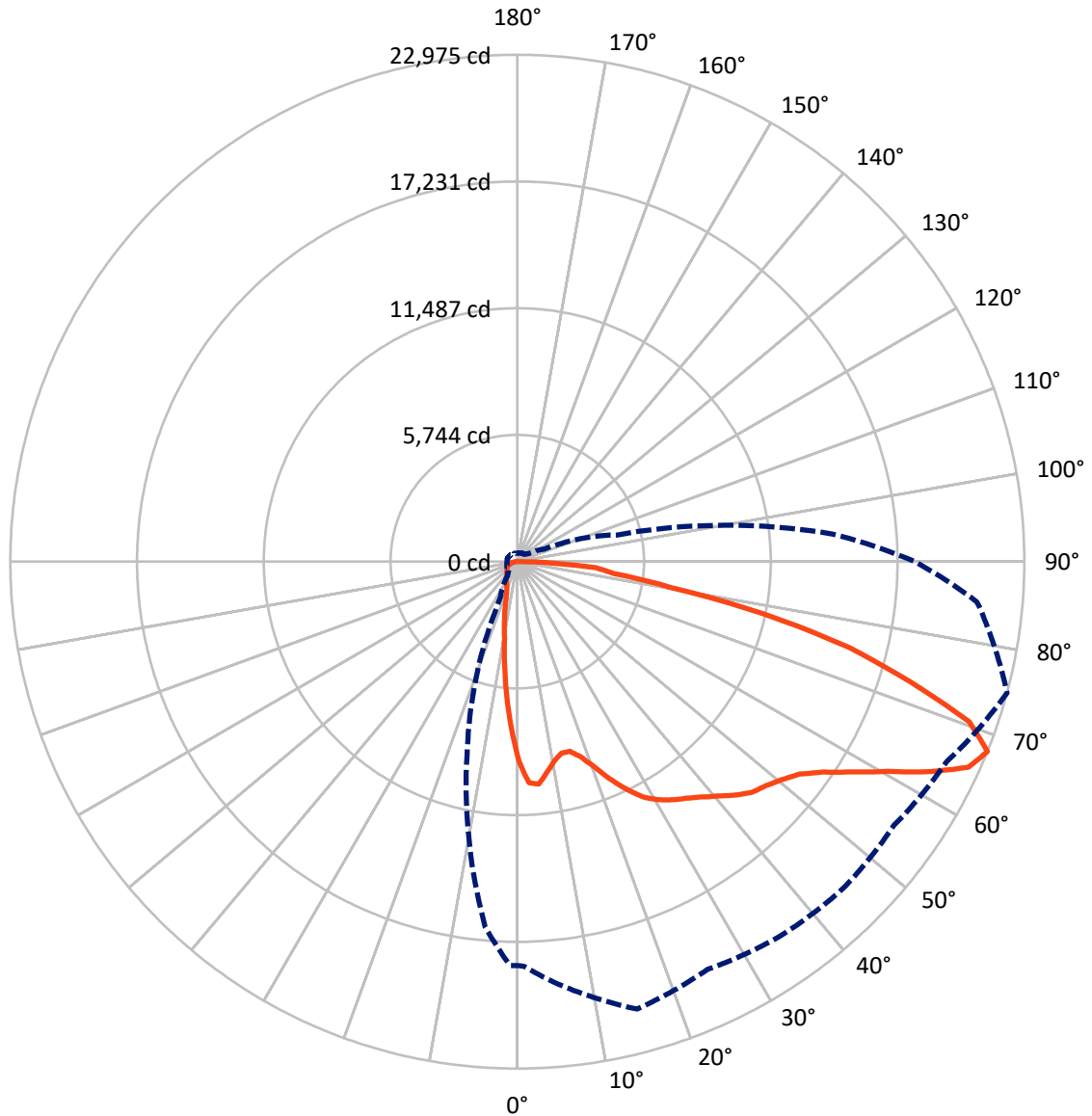
× Max cd
 - - - 1/2 Max cd



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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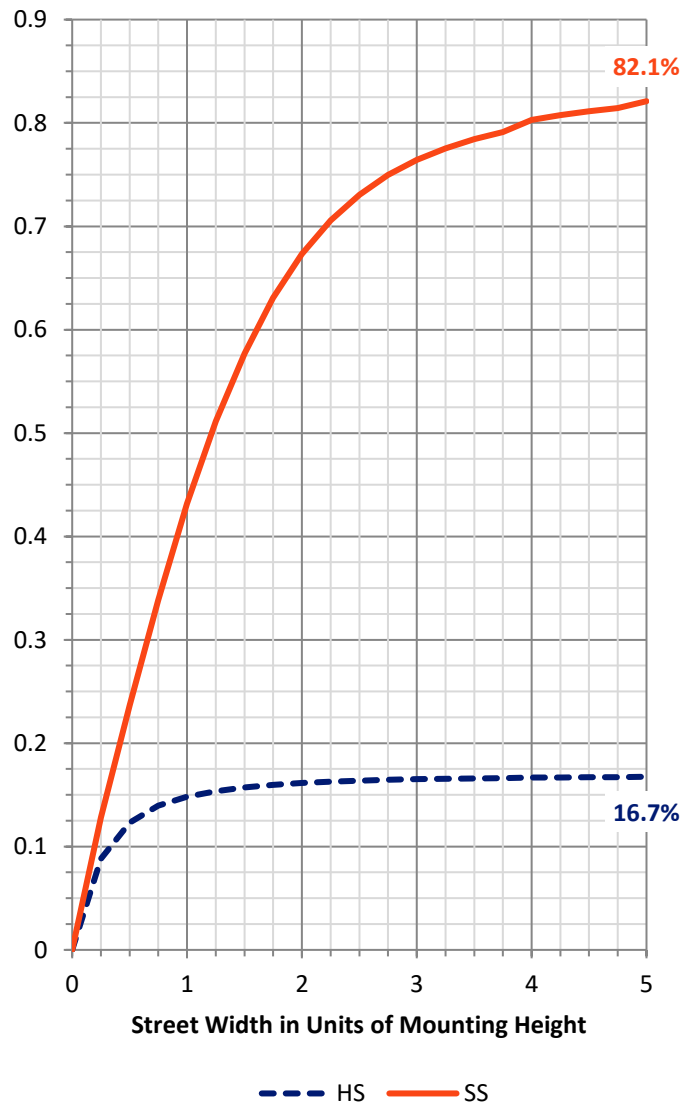
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4899.8	0.0	4899.8
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	24089.2	0.0	24089.2
	% Fixture	83.1	0.0	83.1
Total	Lumens	28989.0	0.0	28989.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	686.9	2.4
10°-20°	1432.6	4.9
20°-30°	2061.6	7.1
30°-40°	2969.2	10.2
40°-50°	4171.0	14.4
50°-60°	5817.0	20.1
60°-70°	6916.1	23.9
70°-80°	4073.2	14.1
80°-90°	861.3	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°	28989.0	100.0
0°-180°	28989.0	100.0



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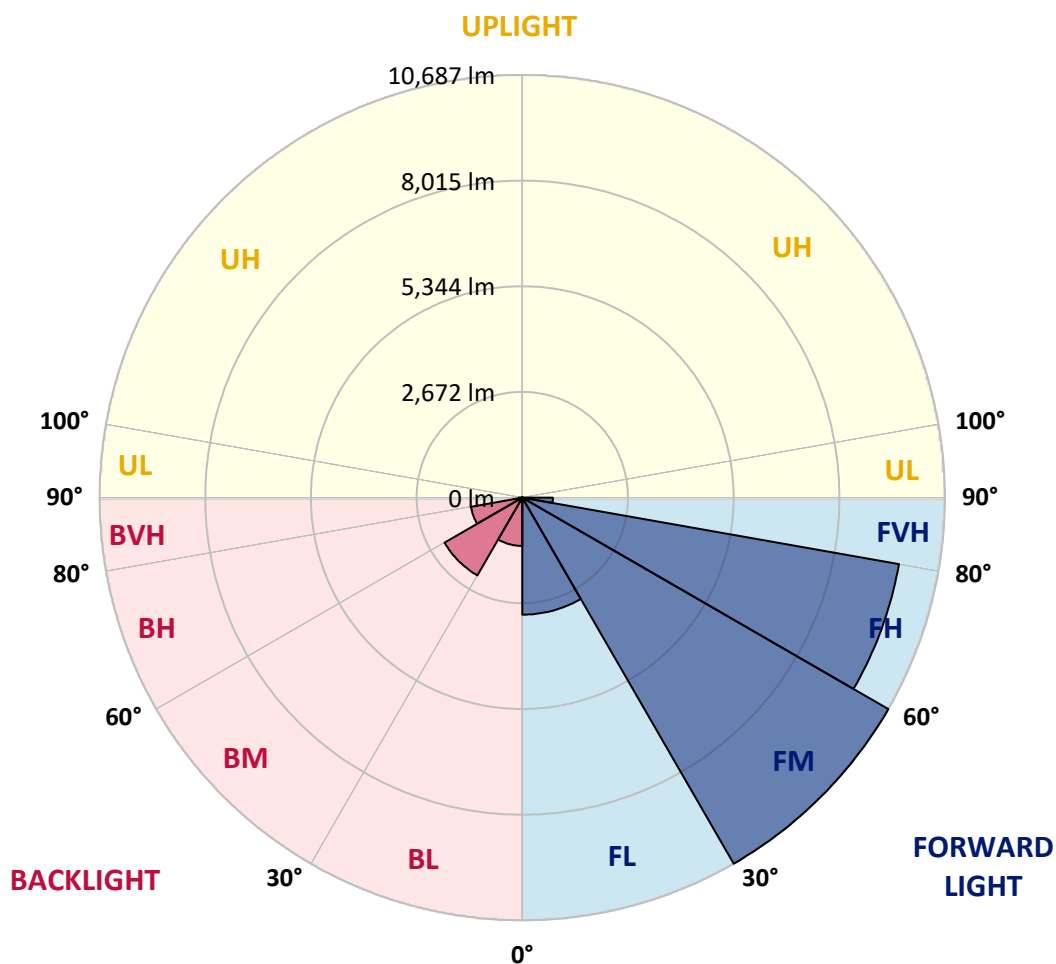
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2959.0	10.2			
FM	(30°-60°)	10687.2	36.9			
FH	(60°-80°)	9670.8	33.4			G4/12000
FVH	(80°-90°)	772.2	2.7			G5
BL	(0°-30°)	1222.2	4.2	B3/2500		
BM	(30°-60°)	2270.1	7.8	B2/2500		
BH	(60°-80°)	1318.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	89.1	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°	9056.8	9056.8	9056.8	9056.8	9056.8	9056.8	9056.8	9056.8	9056.8	9056.8	9056.8
2.5°	9765.1	9778.1	9861.8	10105.3	10272.6	10334.0	10376.7	10296.8	10218.7	10029.1	9742.8
5°	9735.4	9811.6	10029.1	10575.6	11006.9	11192.8	11248.6	11008.8	10612.8	10125.8	9540.2
7.5°	9166.5	9268.8	9603.4	10519.9	11280.2	11715.2	11657.5	11224.4	10510.6	9642.4	8824.5
10°	8491.7	8605.1	9008.5	10116.5	11096.1	11694.7	11694.7	11166.8	10218.7	9187.0	8244.5
12.5°	7956.3	8075.3	8536.3	9701.9	10713.2	11280.2	11375.0	10921.4	10008.6	8898.8	7863.4
15°	7779.7	7895.0	8391.3	9450.9	10307.9	10653.7	10685.3	10536.6	9906.4	8919.3	7846.7
17.5°	7999.1	8147.8	8649.7	9525.3	9936.1	9956.6	9980.8	10097.9	9917.5	9292.9	8185.0
20°	8633.0	8792.9	9317.1	9765.1	9610.8	9398.9	9411.9	9713.1	10049.5	9910.1	8993.6
22.5°	9547.6	9687.0	10224.3	10187.1	9473.3	9036.4	8945.3	9365.4	10244.7	10679.7	9854.3
25°	10534.7	10698.3	11315.5	10813.6	9512.3	8820.8	8763.1	9161.0	10447.4	11399.1	10848.9
27.5°	11665.0	11824.8	12311.9	11445.6	9716.8	8804.0	8735.2	9142.4	10629.5	12064.6	11798.8
30°	12505.2	12652.1	12983.0	11977.3	9967.7	8915.6	8830.1	9289.2	10785.7	12520.1	12724.6
32.5°	13165.1	13317.6	13497.9	12308.2	10298.6	9118.2	8960.2	9556.9	10990.2	12867.7	13410.5
35°	13853.0	14033.3	14020.3	12601.9	10607.2	9352.4	9198.1	9943.6	11311.8	13170.7	14280.5
37.5°	14724.8	14797.3	14704.4	12865.9	10977.2	9774.4	9688.9	10518.0	11769.1	13536.9	15297.4
40°	15609.7	15754.7	15276.9	13185.6	11427.0	10568.2	10558.9	11367.5	12311.9	13966.4	16282.6
42.5°	16368.1	16490.8	15812.3	13464.4	11971.7	11536.7	11607.3	12507.1	13023.9	14464.6	17074.5
45°	16938.8	17048.5	16306.8	13734.0	12689.3	12655.8	13072.2	13728.4	13921.7	14912.6	17539.3
47.5°	17424.0	17530.0	16650.7	14143.0	13576.0	13992.4	14717.4	15001.8	14689.5	15169.1	18059.8
50°	17833.0	17864.6	16886.8	14630.0	14676.5	15630.1	16332.8	16516.9	15448.0	15537.2	18511.5
52.5°	18258.7	18217.8	17293.9	15243.5	15866.2	17184.2	17695.4	17886.9	16174.8	15990.8	19169.6
55°	19212.3	19251.4	18206.6	16016.8	17069.0	18710.4	19383.4	19199.3	16979.7	16825.4	20006.1
57.5°	20364.9	20331.4	19491.2	17227.0	18294.0	20130.7	20632.6	20337.0	18054.2	17972.4	20853.8
60°	20812.9	20857.5	20565.7	18528.2	19502.3	21374.3	21887.4	21428.2	19342.5	19305.3	21493.3
62.5°	20363.0	20614.0	20811.0	19686.4	20532.2	22288.9	22798.3	22274.1	20686.5	20956.0	21941.3
65°	19467.0	19520.9	20192.0	20667.9	21028.5	22439.5	22705.3	22426.5	21809.3	22459.9	21920.8
67.5°	18303.3	18349.8	19136.1	20989.5	20389.1	20729.3	20915.2	20833.4	21461.7	22974.9	20911.4
70°	17195.4	17158.2	17989.1	20169.7	17749.3	17232.6	17386.8	17130.3	18519.0	21716.4	18931.6
72.5°	15039.0	15172.8	16065.1	17890.6	14053.7	13213.5	13550.0	12886.3	14243.3	18598.9	15366.2
75°	11780.2	11811.8	13300.9	15014.8	10601.6	9276.2	9731.7	9454.7	10910.2	15514.9	10610.9
77.5°	8157.1	8086.5	9687.0	11467.9	7560.4	6790.8	6798.2	6666.2	7618.0	11423.3	7209.0
80°	5180.9	5073.1	6063.9	7084.5	5195.8	5558.3	5376.1	5370.5	4959.7	7047.3	4359.3
82.5°	2799.6	2918.6	3831.3	4441.1	3727.2	4296.1	3937.3	3822.0	3403.8	4411.3	2788.4
85°	1275.2	1386.8	2043.0	3020.8	2831.2	2862.8	1912.9	2256.8	2816.3	3582.2	1489.0
87.5°	124.6	159.9	422.0	1425.8	966.7	762.2	284.4	548.4	708.3	1273.4	119.0
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°	9056.8	9056.8	9056.8	9056.8	9056.8	9056.8	9056.8	9056.8	9056.8	9056.8	9056.8
2.5°	9625.7	9529.0	9200.0	8928.6	8640.4	8421.1	8134.8	7943.3	7811.3	7612.4	7588.3
5°	9183.3	8947.2	8374.6	7790.9	7287.1	6907.9	6523.1	6169.9	5961.7	5896.6	5813.0
7.5°	8437.8	8040.0	7303.9	6634.6	6056.5	5491.4	5056.4	4747.8	4541.4	4420.6	4275.6
10°	7824.4	7363.3	6467.3	5647.5	5171.6	4820.3	4437.3	4106.4	3851.8	3634.3	3515.3
12.5°	7411.7	6891.2	5883.6	5218.1	4850.0	4476.4	4028.4	3656.6	3281.1	3033.8	2927.9
15°	7287.1	6736.9	5703.3	5004.3	4476.4	3987.5	3485.5	3000.4	2628.6	2394.3	2316.3
17.5°	7592.0	6926.5	5701.4	4719.9	4037.7	3453.9	2810.7	2355.3	1974.2	1799.5	1743.7
20°	8160.8	7290.8	5718.2	4439.2	3561.8	2740.1	2044.9	1671.2	1489.0	1414.7	1386.8
22.5°	8954.6	7846.7	5768.4	4162.2	3041.3	2104.3	1531.8	1342.2	1277.1	1264.1	1258.5
25°	9932.4	8534.5	5937.5	3913.1	2602.5	1606.1	1280.8	1195.3	1158.1	1145.1	1143.3
27.5°	10832.2	9423.1	6142.0	3699.3	2178.7	1384.9	1158.1	1085.6	1048.5	1046.6	1050.3
30°	11644.5	10166.6	6313.0	3459.5	1857.1	1230.6	1078.2	1005.7	970.4	968.5	979.7
32.5°	12347.2	10778.2	6439.4	3223.4	1678.6	1135.8	1005.7	927.6	897.9	892.3	897.9
35°	13098.2	11388.0	6381.8	3039.4	1576.4	1057.7	951.8	875.6	840.2	823.5	823.5
37.5°	13955.2	12016.3	6283.3	2887.0	1529.9	992.7	905.3	831.0	795.6	778.9	777.0
40°	14890.3	12644.6	6147.6	2751.3	1483.4	953.6	873.7	795.6	752.9	736.1	732.4
42.5°	15715.6	13181.9	6036.0	2662.0	1407.2	961.1	845.8	769.6	715.7	693.4	691.5
45°	16433.2	13722.8	6015.6	2610.0	1344.0	949.9	838.4	749.2	686.0	661.8	658.1
47.5°	16994.6	14286.1	6132.7	2580.2	1275.2	890.4	886.7	736.1	659.9	633.9	630.2
50°	17678.7	15085.5	6400.4	2518.9	1212.0	834.7	936.9	734.3	639.5	606.0	596.7
52.5°	18589.6	16126.5	6762.9	2409.2	1121.0	782.6	894.2	734.3	615.3	581.9	570.7
55°	19967.1	17453.8	7118.0	2254.9	992.7	713.8	806.8	712.0	580.0	550.3	542.8
57.5°	20879.8	18424.1	7344.7	2041.1	832.8	663.6	695.3	676.7	544.7	513.1	513.1
60°	20926.3	18684.4	7236.9	1771.6	732.4	617.2	604.2	682.2	513.1	479.6	475.9
62.5°	20390.9	18046.8	6675.5	1529.9	678.5	567.0	546.5	598.6	481.5	448.0	442.4
65°	19554.4	16420.2	5701.4	1414.7	648.8	522.4	492.6	490.8	448.0	416.4	409.0
67.5°	18017.0	14349.3	4684.6	1347.7	633.9	472.2	444.3	435.0	409.0	382.9	379.2
70°	15751.0	12018.2	3757.0	1319.9	626.5	420.1	397.8	386.7	364.4	343.9	342.0
72.5°	12254.3	9748.4	3100.7	1301.3	622.8	371.8	347.6	332.8	319.7	301.2	301.2
75°	8802.2	7171.9	2366.5	1173.0	576.3	319.7	293.7	284.4	265.8	251.0	254.7
77.5°	5549.0	4829.6	1557.8	862.6	446.2	256.5	234.2	228.7	213.8	193.3	206.3
80°	3747.7	3396.3	909.0	542.8	280.7	187.8	180.3	178.5	161.7	139.4	141.3
82.5°	2550.5	2502.2	472.2	308.6	161.7	109.7	106.0	109.7	91.1	74.4	74.4
85°	996.4	1360.8	223.1	120.8	52.1	16.7	24.2	26.0	14.9	7.4	9.3
87.5°	18.6	139.4	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°	9056.8	9056.8	9056.8	9056.8	9056.8	9056.8	9056.8	9056.8	9056.8	9056.8	9056.8
2.5°	7551.1	7534.4	7562.2	7443.3	7467.4	7512.1	7534.4	7547.4	7731.4	7688.7	7805.8
5°	5891.0	5874.3	5982.1	5997.0	6052.8	6041.6	6095.5	6108.5	6175.5	6199.6	6363.2
7.5°	4284.9	4357.4	4480.1	4543.3	4638.1	4667.8	4640.0	4708.7	4569.3	4669.7	4699.4
10°	3442.8	3355.4	3303.4	3448.4	3467.0	3604.5	3548.8	3504.1	3585.9	3589.7	3667.7
12.5°	2866.5	2678.8	2554.2	2595.1	2639.7	2699.2	2708.5	2797.7	2857.2	2913.0	2959.5
15°	2247.5	2182.4	2069.0	2013.3	2076.5	2100.6	2158.3	2232.6	2295.8	2312.5	2375.7
17.5°	1725.1	1736.3	1717.7	1684.2	1723.3	1741.8	1745.6	1747.4	1764.2	1753.0	1845.9
20°	1388.6	1427.7	1474.2	1481.6	1494.6	1503.9	1487.2	1424.0	1425.8	1464.9	1494.6
22.5°	1256.7	1264.1	1316.1	1332.9	1373.8	1357.0	1308.7	1279.0	1275.2	1284.5	1299.4
25°	1152.6	1163.7	1200.9	1226.9	1258.5	1228.8	1193.5	1165.6	1161.8	1171.1	1186.0
27.5°	1059.6	1076.3	1109.8	1135.8	1165.6	1137.7	1104.2	1080.1	1078.2	1076.3	1085.6
30°	985.2	1003.8	1028.0	1057.7	1078.2	1054.0	1022.4	1009.4	1007.6	1003.8	1007.6
32.5°	910.9	940.6	964.8	979.7	1000.1	981.5	957.4	949.9	936.9	925.8	920.2
35°	827.2	858.8	896.0	914.6	935.1	916.5	899.7	868.1	845.8	844.0	847.7
37.5°	778.9	791.9	821.7	853.3	873.7	864.4	832.8	801.2	795.6	795.6	799.4
40°	736.1	741.7	754.7	795.6	832.8	804.9	765.9	756.6	756.6	754.7	756.6
42.5°	693.4	699.0	699.0	730.6	790.1	745.4	715.7	715.7	715.7	717.6	723.1
45°	654.4	656.2	654.4	676.7	732.4	695.3	674.8	680.4	684.1	687.8	691.5
47.5°	620.9	622.8	620.9	639.5	667.4	652.5	641.3	648.8	656.2	661.8	665.5
50°	591.1	589.3	593.0	604.2	617.2	620.9	613.5	624.6	628.3	635.8	645.1
52.5°	565.1	563.3	567.0	572.6	591.1	591.1	591.1	600.4	607.9	615.3	628.3
55°	535.4	537.2	542.8	550.3	574.4	570.7	572.6	580.0	587.4	598.6	606.0
57.5°	507.5	511.2	518.6	529.8	554.0	552.1	554.0	557.7	567.0	572.6	580.0
60°	475.9	483.3	492.6	500.1	524.2	522.4	531.7	539.1	544.7	544.7	548.4
62.5°	444.3	455.4	464.7	470.3	496.3	498.2	511.2	516.8	520.5	516.8	522.4
65°	412.7	429.4	433.1	440.6	466.6	468.5	483.3	496.3	492.6	488.9	498.2
67.5°	381.1	401.5	399.7	409.0	435.0	438.7	451.7	474.0	466.6	462.9	470.3
70°	345.8	360.6	362.5	368.1	403.4	397.8	418.3	438.7	433.1	435.0	435.0
72.5°	306.7	319.7	319.7	330.9	368.1	358.8	375.5	397.8	397.8	396.0	396.0
75°	260.3	267.7	275.1	291.9	330.9	319.7	330.9	351.3	355.1	351.3	351.3
77.5°	210.1	221.2	224.9	247.2	275.1	273.3	284.4	293.7	301.2	297.4	297.4
80°	148.7	159.9	174.7	198.9	215.6	221.2	226.8	234.2	237.9	237.9	241.7
82.5°	83.7	100.4	113.4	137.6	145.0	172.9	171.0	176.6	171.0	150.6	167.3
85°	18.6	35.3	50.2	63.2	72.5	100.4	106.0	119.0	98.5	91.1	91.1
87.5°	0.0	0.0	0.0	0.0	0.0	14.9	29.7	40.9	35.3	29.7	29.7
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°	9056.8	9056.8	9056.8	9056.8	9056.8	9056.8	9056.8	9056.8	9056.8	9056.8
2.5°	7904.3	8066.0	8261.2	8597.7	8833.8	9088.5	9345.0	9618.3	9690.8	9765.1
5°	6407.8	6725.7	6898.6	7350.3	7824.4	8426.7	8919.3	9458.4	9683.3	9735.4
7.5°	4853.7	5069.4	5523.0	5980.3	6567.7	7199.7	7954.5	8794.7	9056.8	9166.5
10°	3848.0	4141.8	4539.6	5030.3	5545.3	6225.7	7077.1	8058.6	8430.4	8491.7
12.5°	3275.5	3602.7	4035.8	4554.5	5041.5	5554.6	6413.4	7426.5	7824.4	7956.3
15°	2619.3	3015.2	3515.3	4061.8	4591.6	5153.0	6023.0	7166.3	7625.5	7779.7
17.5°	2057.9	2377.6	2918.6	3511.6	4139.9	4850.0	5941.2	7290.8	7856.0	7999.1
20°	1574.5	1803.2	2258.6	2885.1	3621.3	4550.7	5961.7	7761.2	8437.8	8633.0
22.5°	1360.8	1477.9	1754.9	2351.6	3175.1	4290.5	6045.3	8406.2	9222.3	9547.6
25°	1232.5	1293.8	1450.0	1840.4	2749.4	4037.7	6236.8	9274.3	10319.1	10534.7
27.5°	1122.8	1167.4	1264.1	1544.8	2362.7	3803.4	6459.9	10237.3	11343.4	11665.0
30°	1018.7	1078.2	1169.3	1371.9	2115.5	3589.7	6740.6	11018.1	12205.9	12505.2
32.5°	938.8	998.3	1081.9	1251.1	1905.4	3364.7	6907.9	11704.0	12910.5	13165.1
35°	873.7	923.9	1011.3	1154.4	1745.6	3193.7	6874.4	12248.7	13592.7	13853.0
37.5°	827.2	870.0	957.4	1063.3	1624.7	3015.2	6857.7	12968.1	14423.7	14724.8
40°	784.5	829.1	909.0	1003.8	1503.9	2805.2	6867.0	13681.9	15308.5	15609.7
42.5°	751.0	801.2	866.3	987.1	1379.3	2636.0	6867.0	14302.8	16078.1	16368.1
45°	723.1	777.0	840.2	985.2	1280.8	2507.7	6820.5	14836.4	16691.6	16938.8
47.5°	699.0	758.5	849.5	951.8	1256.7	2414.8	6779.6	15263.9	17191.7	17424.0
50°	682.2	752.9	903.5	912.7	1264.1	2386.9	6976.7	15803.0	17632.2	17833.0
52.5°	669.2	754.7	901.6	855.1	1251.1	2405.5	7387.5	16645.1	18243.8	18258.7
55°	643.2	752.9	855.1	790.1	1197.2	2437.1	7915.4	17868.3	19201.2	19212.3
57.5°	617.2	732.4	793.8	734.3	1087.5	2437.1	8551.2	19026.4	20355.6	20364.9
60°	591.1	762.2	697.1	686.0	944.4	2392.5	9222.3	19535.8	20718.1	20812.9
62.5°	565.1	767.8	622.8	643.2	840.2	2284.7	9722.4	18972.5	20227.3	20363.0
65°	535.4	619.0	574.4	598.6	786.3	2104.3	9564.3	17940.8	19305.3	19467.0
67.5°	500.1	524.2	522.4	552.1	767.8	1838.5	8731.5	16635.8	18312.6	18303.3
70°	457.3	470.3	475.9	507.5	732.4	1632.2	7276.0	14942.3	16987.2	17195.4
72.5°	412.7	423.8	429.4	457.3	697.1	1515.1	5647.5	12609.3	14713.7	15039.0
75°	364.4	371.8	379.2	403.4	659.9	1342.2	4022.8	9625.7	11269.0	11780.2
77.5°	314.2	314.2	323.5	347.6	555.8	1107.9	2699.2	6751.7	7634.7	8157.1
80°	254.7	256.5	252.8	278.8	409.0	758.5	1533.6	4509.8	5080.5	5180.9
82.5°	195.2	189.6	191.5	204.5	304.9	516.8	817.9	2801.5	2855.4	2799.6
85°	122.7	122.7	119.0	133.8	195.2	269.5	446.2	1715.8	1340.3	1275.2
87.5°	50.2	40.9	46.5	53.9	92.9	109.7	174.7	353.2	135.7	124.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)