

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: P533489

Luminaire Tested: **GALN-SA8D-830-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-830-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27442 lumens
Efficiency: N/A
Efficacy: 55.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 493
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



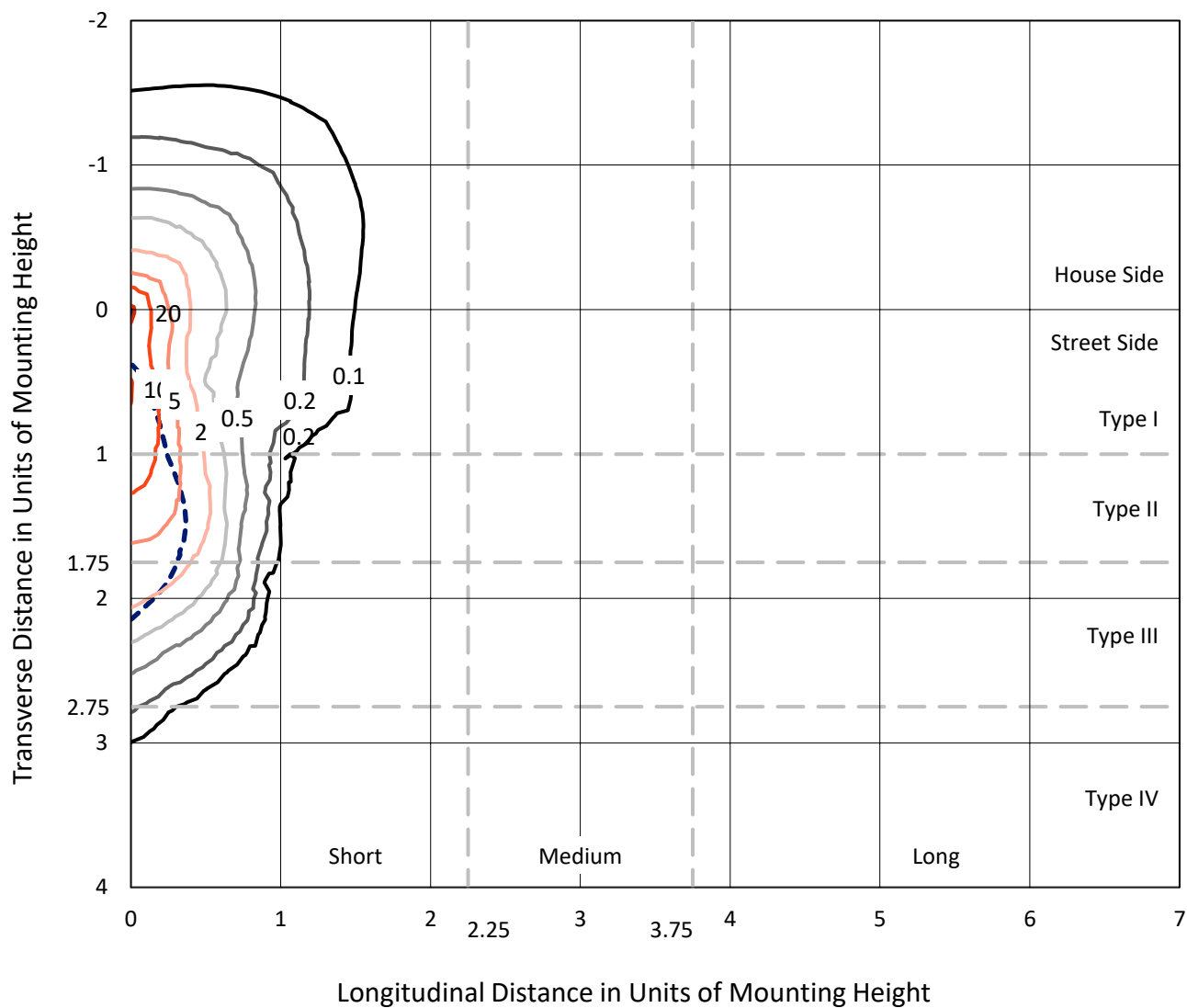
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

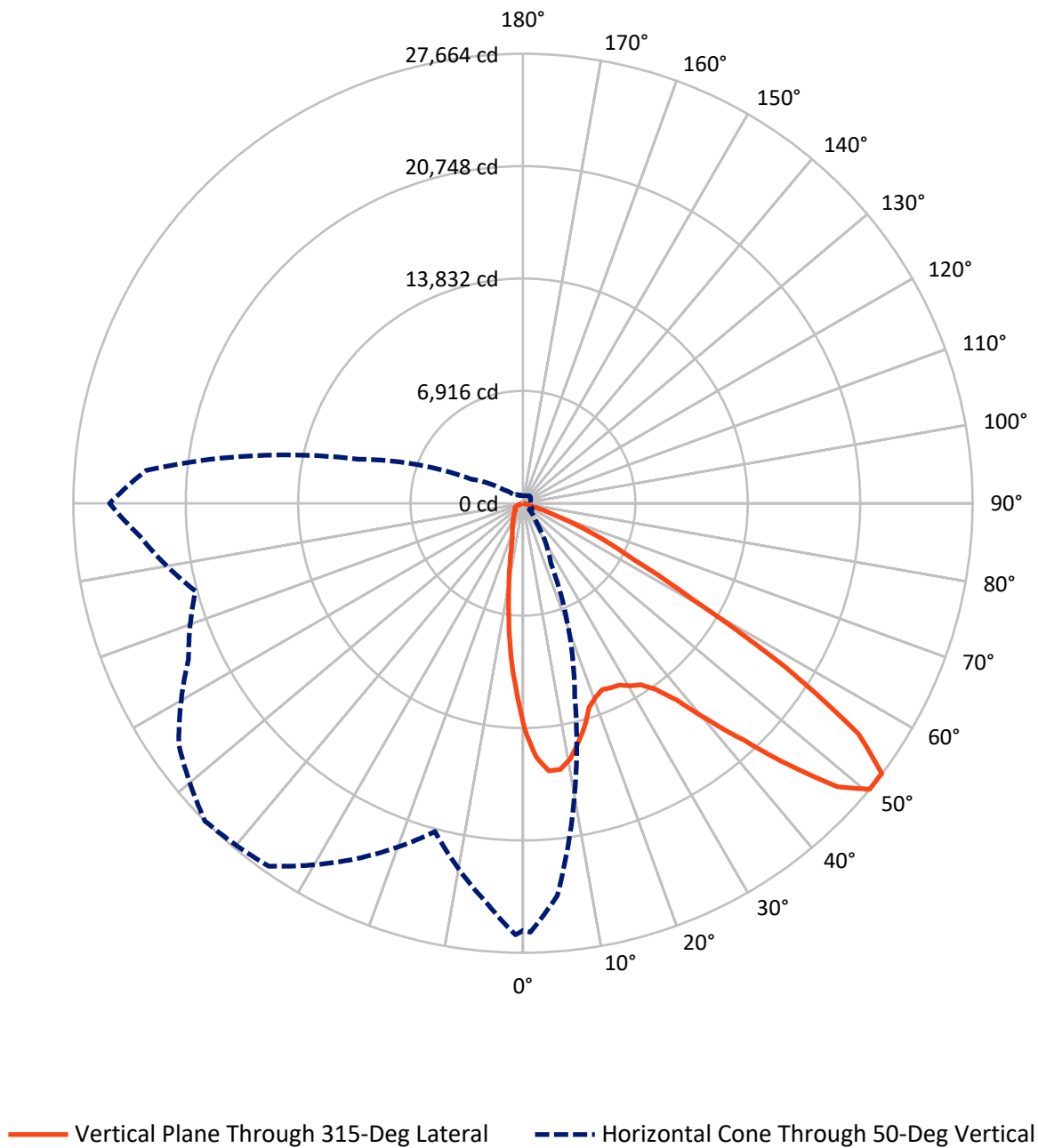


Based on 25 foot mounting height. Maximum calculated value = 22.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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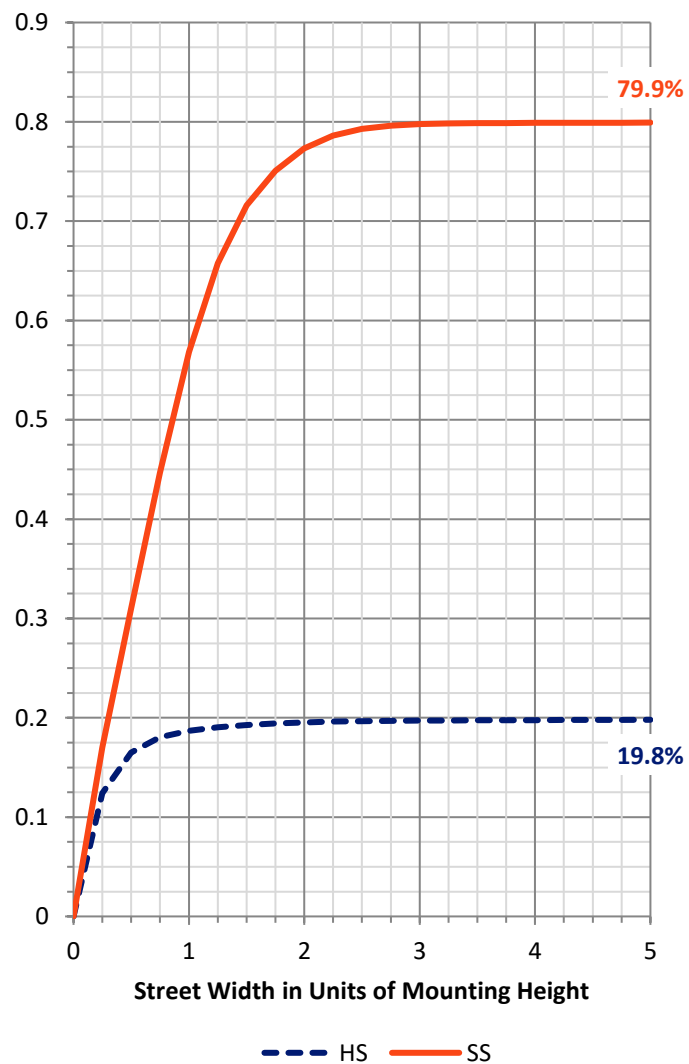
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5496.6	0.0	5496.6
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	21945.4	0.0	21945.4
	% Fixture	80.0	0.0	80.0
Total	Lumens	27442.0	0.0	27442.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1014.4	3.7
10°-20°	2016.0	7.3
20°-30°	3028.7	11.0
30°-40°	4545.9	16.6
40°-50°	6389.0	23.3
50°-60°	6891.7	25.1
60°-70°	3199.8	11.7
70°-80°	301.1	1.1
80°-90°	55.5	0.2
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°	27442.0	100.0
0°-180°	27442.0	100.0

Coefficient of Utilization



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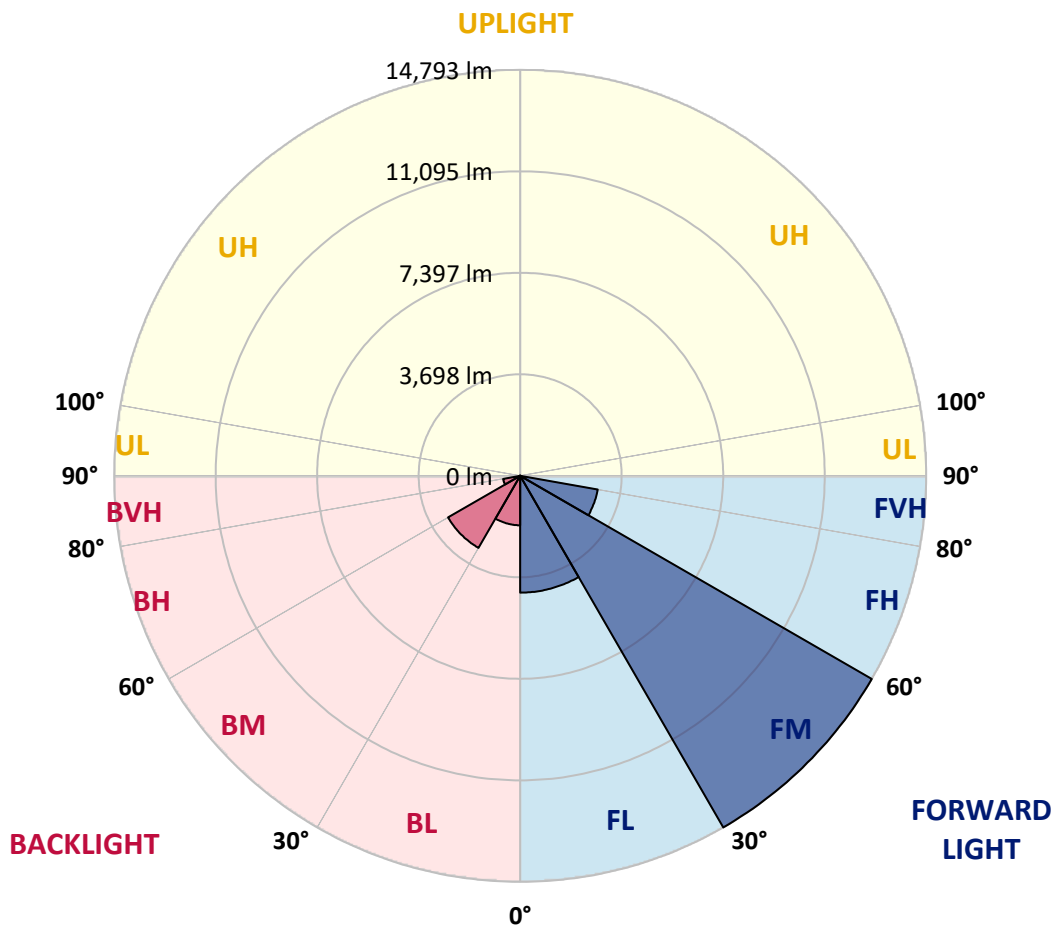
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4257.4	15.5			
FM	(30°-60°)	14793.3	53.9			
FH	(60°-80°)	2869.7	10.5			G2/5000
FVH	(80°-90°)	25.0	0.1			G1/100
BL	(0°-30°)	1801.7	6.6	B3/2500		
BM	(30°-60°)	3033.3	11.1	B3/5000		
BH	(60°-80°)	631.2	2.3	B2/1000		G2/1000
BVH	(80°-90°)	30.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13916.6	13916.6	13916.6	13916.6	13916.6	13916.6	13916.6	13916.6	13916.6	13916.6	13916.6
2.5°	14466.5	14243.2	13960.1	13726.0	13377.5	12675.2	12484.6	12255.9	12065.4	11809.5	11450.1
5°	13154.3	13083.5	12952.8	12070.8	11433.8	10584.4	9887.5	9593.5	9206.9	8891.1	8662.5
7.5°	12152.5	11869.4	11455.6	10568.1	9549.9	8640.7	7867.5	7415.6	6903.8	6729.6	6419.3
10°	11079.9	11145.2	10535.4	9288.6	8058.1	7323.1	6843.9	6408.4	5945.6	5640.7	5199.7
12.5°	10736.9	10524.5	10056.3	8515.4	7464.6	6778.6	6196.0	5657.0	5167.0	4677.0	4252.3
15°	10960.1	10633.4	9980.1	8352.1	7007.3	6152.5	5422.9	4693.3	4241.4	3615.3	3174.2
17.5°	11760.5	11499.1	10622.5	8526.3	6773.2	5553.6	4470.1	3718.7	3027.2	2461.0	2237.8
20°	13094.4	12724.2	11624.4	8749.6	6424.7	4829.4	3626.1	2700.6	2047.2	1807.6	1682.4
22.5°	14401.1	14199.7	12811.3	9179.7	6114.4	4186.9	2722.3	1818.5	1529.9	1486.4	1404.7
25°	16889.3	16285.0	14624.4	9958.3	5874.8	3582.6	2052.6	1464.6	1295.8	1263.2	1274.1
27.5°	18370.3	17863.9	16301.3	10475.5	5608.0	3119.8	1736.8	1344.8	1230.5	1159.7	1132.5
30°	19791.3	19203.3	17134.3	10780.4	5036.3	2629.8	1540.8	1290.4	1263.2	1159.7	1127.0
32.5°	20885.7	20308.6	18337.6	11237.8	4802.2	2314.0	1268.6	1007.3	936.5	925.6	1023.6
35°	22562.7	21947.4	19366.7	11488.2	4622.5	2150.6	1099.8	898.4	816.7	784.0	789.5
37.5°	24125.3	23706.1	20319.5	11586.2	4432.0	2101.6	985.5	805.8	735.0	713.3	707.8
40°	25432.0	24495.5	21223.3	11689.7	4350.3	2009.1	914.7	735.0	686.0	653.4	653.4
42.5°	26030.9	25078.1	22236.0	11629.8	4328.5	1862.1	914.7	675.1	637.0	604.4	598.9
45°	25900.3	25513.7	22687.9	11602.6	4328.5	1715.1	833.0	658.8	604.4	560.8	549.9
47.5°	26237.8	25731.5	23254.1	11716.9	4241.4	1611.6	702.4	691.5	571.7	517.2	506.4
50°	26297.7	26395.7	24239.6	12310.4	4050.8	1480.9	549.9	680.6	549.9	468.2	457.4
52°	26689.7	26079.9	24539.1	12626.2	3849.4	1382.9	462.8	582.6	528.1	435.6	424.7
52.5°	26150.7	26548.2	24609.9	12740.5	3871.2	1317.6	446.5	571.7	517.2	435.6	408.3
55°	25546.3	25927.5	24321.3	12985.5	3549.9	1034.5	348.5	413.8	468.2	381.1	364.8
57.5°	22203.3	22589.9	21136.2	11891.1	2891.1	729.6	288.6	310.3	413.8	353.9	337.6
60°	19736.9	19459.2	17738.7	9920.2	2052.6	408.3	228.7	239.6	451.9	326.7	321.2
62.5°	18038.2	17444.7	14825.8	7660.6	1252.3	272.2	179.7	185.1	348.5	304.9	304.9
65°	13344.9	12680.6	9849.4	4633.4	615.2	190.6	136.1	147.0	217.8	261.3	261.3
67.5°	7617.1	7361.2	4758.6	2090.7	255.9	119.8	103.4	114.3	168.8	212.3	201.5
70°	3500.9	3141.6	1829.4	441.0	119.8	81.7	81.7	92.6	136.1	157.9	147.0
72.5°	1023.6	969.1	446.5	70.8	49.0	49.0	54.4	70.8	103.4	119.8	108.9
75°	76.2	49.0	32.7	21.8	21.8	32.7	43.6	70.8	103.4	114.3	92.6
77.5°	5.4	10.9	5.4	5.4	16.3	32.7	49.0	87.1	136.1	141.6	103.4
80°	5.4	5.4	0.0	5.4	16.3	32.7	54.4	98.0	152.5	163.3	87.1
82.5°	0.0	0.0	0.0	5.4	21.8	43.6	65.3	103.4	141.6	174.2	92.6
85°	0.0	0.0	0.0	5.4	32.7	59.9	76.2	27.2	16.3	0.0	0.0
87.5°	0.0	0.0	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13916.6	13916.6	13916.6	13916.6	13916.6	13916.6	13916.6	13916.6	13916.6	13916.6	13916.6
2.5°	11706.0	11564.5	11510.0	11559.0	11542.7	11526.3	11825.8	11760.5	11749.6	11847.6	11825.8
5°	8787.7	8537.2	9223.3	8945.6	9234.1	9408.4	9441.0	9457.4	9658.8	9446.5	9724.2
7.5°	6261.4	6326.7	6321.3	6506.4	6838.5	7132.5	7306.7	7170.6	7159.7	7132.5	7012.7
10°	5003.6	4889.3	4867.5	4824.0	4927.4	5177.9	5390.2	5221.4	5101.6	5265.0	5216.0
12.5°	4088.9	3931.0	3843.9	3669.7	3675.1	3843.9	3843.9	3843.9	3963.7	4056.3	4127.1
15°	3136.1	3005.5	3005.5	2831.2	2793.1	2798.6	2885.7	2896.6	3087.1	3141.6	3168.8
17.5°	2194.2	2123.4	2205.1	2275.9	2232.3	2243.2	2275.9	2286.8	2314.0	2292.2	2346.6
20°	1687.8	1677.0	1698.7	1824.0	1916.5	1971.0	1932.9	1878.4	1845.7	1769.5	1769.5
22.5°	1431.9	1453.7	1491.8	1595.3	1715.1	1747.7	1704.2	1579.0	1480.9	1470.1	1475.5
25°	1274.1	1295.8	1355.7	1421.1	1486.4	1540.8	1497.3	1404.7	1350.3	1301.3	1301.3
27.5°	1176.0	1186.9	1219.6	1268.6	1323.1	1366.6	1350.3	1301.3	1241.4	1219.6	1170.6
30°	1099.8	1116.2	1154.3	1165.2	1214.2	1235.9	1208.7	1197.8	1159.7	1132.5	1116.2
32.5°	1061.7	1056.3	1083.5	1094.4	1099.8	1116.2	1083.5	1099.8	1094.4	1050.8	1034.5
35°	800.4	843.9	914.7	974.6	990.9	1012.7	1007.3	985.5	925.6	876.6	816.7
37.5°	718.7	745.9	784.0	833.0	898.4	925.6	914.7	860.3	789.5	756.8	745.9
40°	664.2	680.6	713.3	745.9	811.3	860.3	822.1	773.1	718.7	691.5	675.1
42.5°	615.2	620.7	637.0	669.7	718.7	794.9	729.6	664.2	642.5	626.1	615.2
45°	560.8	560.8	582.6	598.9	653.4	724.1	658.8	598.9	588.0	577.1	571.7
47.5°	517.2	522.7	533.6	555.4	598.9	647.9	604.4	555.4	528.1	522.7	511.8
50°	462.8	468.2	490.0	511.8	566.2	593.5	566.2	511.8	484.6	468.2	468.2
52°	419.2	435.6	457.4	500.9	539.0	582.6	549.9	490.0	457.4	441.0	430.1
52.5°	413.8	424.7	446.5	495.5	539.0	577.1	544.5	484.6	446.5	435.6	424.7
55°	370.2	386.6	424.7	484.6	533.6	577.1	533.6	479.1	424.7	397.5	386.6
57.5°	353.9	364.8	413.8	490.0	528.1	577.1	533.6	479.1	424.7	375.7	364.8
60°	337.6	359.3	413.8	473.7	522.7	582.6	539.0	473.7	413.8	353.9	353.9
62.5°	321.2	337.6	408.3	462.8	500.9	560.8	517.2	462.8	397.5	337.6	332.1
65°	277.7	304.9	359.3	386.6	430.1	484.6	441.0	402.9	348.5	299.5	294.0
67.5°	212.3	223.2	266.8	299.5	326.7	375.7	353.9	304.9	266.8	228.7	228.7
70°	147.0	157.9	190.6	206.9	234.1	261.3	245.0	206.9	179.7	157.9	152.5
72.5°	103.4	108.9	119.8	130.7	141.6	152.5	147.0	119.8	103.4	98.0	92.6
75°	81.7	92.6	98.0	92.6	87.1	81.7	81.7	70.8	59.9	54.4	54.4
77.5°	81.7	87.1	81.7	70.8	59.9	54.4	49.0	43.6	32.7	27.2	32.7
80°	70.8	70.8	70.8	59.9	54.4	49.0	43.6	38.1	32.7	27.2	27.2
82.5°	76.2	76.2	70.8	59.9	59.9	49.0	49.0	43.6	38.1	27.2	27.2
85°	0.0	0.0	0.0	10.9	27.2	49.0	49.0	43.6	38.1	32.7	32.7
87.5°	0.0	0.0	0.0	0.0	5.4	10.9	21.8	27.2	32.7	32.7	32.7
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	13916.6	13916.6	13916.6	13916.6	13916.6	13916.6	13916.6	13916.6	13916.6	13916.6	13916.6
2.5°	12021.8	12228.7	12620.7	13012.7	13252.3	13535.4	14047.2	14319.5	14673.4	14847.6	15190.6
5°	9686.1	10176.1	10350.3	10796.8	11275.9	11755.0	12517.3	13355.8	14052.7	14531.8	15152.5
7.5°	7067.2	7181.5	7856.6	8156.1	8940.1	9811.3	10851.2	11907.5	12789.5	13573.5	14047.2
10°	5297.7	5716.9	6141.6	6713.3	7344.8	8243.2	9239.6	10404.7	11548.1	12332.2	12931.1
12.5°	4257.7	4589.8	5156.1	5771.3	6549.9	7143.4	8145.2	9299.5	10780.4	11548.1	12337.6
15°	3223.2	3647.9	4290.4	4927.4	5749.6	6375.7	7388.4	8842.1	10747.8	11804.0	12484.6
17.5°	2390.2	2678.8	3255.9	3969.2	4807.6	5689.7	7056.3	8793.1	11112.6	12370.3	13072.6
20°	1829.4	1927.4	2292.2	2929.2	3838.5	4992.8	6517.3	9005.5	12190.6	13747.8	14461.0
22.5°	1480.9	1524.5	1666.1	2107.1	2989.1	4383.0	6261.4	9152.5	13404.8	15397.5	16350.3
25°	1290.4	1279.5	1372.1	1562.6	2335.8	3811.3	5934.7	9707.8	14891.1	17335.8	18190.6
27.5°	1176.0	1176.0	1219.6	1355.7	1938.3	3441.0	5727.8	10105.3	16388.4	19040.0	19502.8
30°	1116.2	1127.0	1252.3	1295.8	1611.6	3000.0	5384.8	10508.2	17820.4	20128.9	20765.9
32.5°	1034.5	990.9	963.7	1072.6	1355.7	2602.5	5041.8	10677.0	18980.1	21462.9	22007.3
35°	794.9	773.1	805.8	887.5	1165.2	2265.0	4660.6	10867.5	20314.0	23009.1	23118.0
37.5°	718.7	713.3	735.0	805.8	980.0	1971.0	4388.4	10818.5	21332.2	24288.6	23994.6
40°	664.2	664.2	680.6	740.5	876.6	1764.1	4105.3	10775.0	22317.7	25726.0	24865.8
42.5°	620.7	620.7	647.9	686.0	833.0	1628.0	3892.9	10715.1	23145.3	26608.1	25377.6
45°	560.8	577.1	620.7	658.8	843.9	1535.4	3735.0	10486.4	23428.4	26597.2	25132.6
47.5°	517.2	539.0	582.6	637.0	762.3	1508.2	3626.1	10285.0	23330.4	25943.8	24364.9
50°	468.2	495.5	555.4	647.9	647.9	1453.7	3511.8	10464.6	23259.6	25437.5	23629.8
52°	435.6	457.4	533.6	631.6	566.2	1339.4	3441.0	10813.1	23548.2	25372.1	23303.1
52.5°	430.1	446.5	517.2	620.7	539.0	1317.6	3392.0	10894.8	23640.7	25208.8	23526.4
55°	381.1	402.9	473.7	484.6	441.0	1083.5	3234.1	11079.9	23183.4	24887.5	23314.0
57.5°	359.3	370.2	419.2	397.5	381.1	816.7	2782.2	10791.3	20591.7	22105.3	21691.5
60°	332.1	343.0	392.0	310.3	321.2	571.7	2090.7	9370.3	16535.4	18419.3	19165.2
62.5°	321.2	315.8	370.2	250.5	272.2	413.8	1475.5	7617.1	12740.5	15163.4	16453.8
65°	283.1	277.7	266.8	212.3	234.1	321.2	882.0	4971.0	8978.2	11471.9	12179.7
67.5°	217.8	228.7	196.0	168.8	196.0	250.5	490.0	2226.9	4709.6	6882.1	7453.7
70°	152.5	163.3	157.9	147.0	174.2	206.9	283.1	762.3	1949.2	3615.3	3985.5
72.5°	92.6	114.3	119.8	125.2	152.5	179.7	201.5	245.0	517.2	1279.5	1589.8
75°	54.4	76.2	92.6	108.9	125.2	152.5	168.8	174.2	179.7	239.6	386.6
77.5°	38.1	54.4	81.7	103.4	125.2	152.5	179.7	190.6	179.7	168.8	179.7
80°	32.7	54.4	76.2	98.0	130.7	157.9	179.7	179.7	174.2	152.5	163.3
82.5°	32.7	54.4	81.7	103.4	125.2	152.5	174.2	179.7	163.3	152.5	157.9
85°	38.1	59.9	87.1	108.9	136.1	125.2	114.3	92.6	87.1	70.8	76.2
87.5°	38.1	54.4	54.4	59.9	65.3	65.3	65.3	59.9	49.0	43.6	43.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13916.6	13916.6	13916.6	13916.6	13916.6	13916.6	13916.6	13916.6	13916.6	13916.6
2.5°	15206.9	15642.5	15626.2	15637.1	15571.7	15130.7	14918.4	14379.3	14531.8	14466.5
5°	15789.5	16219.6	16589.9	16546.3	16045.4	15446.5	14559.0	13720.5	13491.9	13154.3
7.5°	15206.9	16241.4	16584.4	16535.4	15795.0	15027.3	13611.7	12773.2	12375.7	12152.5
10°	14281.3	15479.2	15903.9	15991.0	15490.1	14324.9	13023.6	11678.8	11466.5	11079.9
12.5°	13753.2	14624.4	14885.7	15119.8	14945.6	14074.4	12577.2	11286.8	10992.8	10736.9
15°	13323.1	13840.3	13949.2	14216.0	14319.5	13851.2	12811.3	11711.5	10987.3	10960.1
17.5°	13720.5	13508.2	13110.7	13192.4	13519.1	13856.7	13415.6	12549.9	11847.6	11760.5
20°	14379.3	13442.9	12544.5	12746.0	13018.2	14052.7	14330.3	13720.5	13317.6	13094.4
22.5°	15136.2	13557.2	12364.8	12462.8	12980.1	14493.7	15811.3	15473.7	14722.4	14401.1
25°	16535.4	13873.0	12506.4	12571.7	13279.5	15108.9	17150.7	17401.1	16954.7	16889.3
27.5°	17902.0	14689.7	12816.7	12669.7	13432.0	15707.8	17961.9	19306.8	18522.7	18370.3
30°	18599.0	15353.9	13279.5	13029.1	14063.6	16072.6	18452.0	20548.2	19862.1	19791.3
32.5°	19666.1	15958.3	13638.9	13317.6	14417.5	16524.5	19366.7	21903.9	21239.6	20885.7
35°	20112.6	16617.1	14428.4	14052.7	15430.2	17156.1	19834.9	23112.6	22905.7	22562.7
37.5°	20972.8	17324.9	15359.4	15337.6	16655.2	17978.3	20678.8	24756.9	24718.8	24125.3
40°	21043.6	18098.1	16829.4	17515.5	18550.0	19410.2	21419.3	25214.2	25834.9	25432.0
42.5°	21152.5	19453.8	19372.1	19938.3	20825.8	20640.7	21446.5	25323.1	26270.5	26030.9
45°	21201.5	20809.5	21958.3	23003.7	23373.9	22252.3	21190.6	25116.2	26499.2	25900.3
47.5°	20809.5	21974.7	24049.1	26069.0	26177.9	23243.3	21081.7	24903.9	26635.3	26237.8
50°	20863.9	22704.2	25856.7	27664.3	27266.9	24119.8	20912.9	24773.2	26564.5	26297.7
52°	20733.3	22720.6	26112.6	27631.7	27354.0	23635.3	20624.4	24272.3	26499.2	26689.7
52.5°	20880.3	22622.6	25845.8	27653.4	27294.1	23874.8	20586.3	24550.0	26537.3	26150.7
55°	20373.9	21457.4	24283.2	25050.9	24996.4	21669.8	19415.7	23629.8	25540.9	25546.3
57.5°	18413.8	18599.0	19045.4	19029.1	18778.6	17036.3	16606.2	21729.6	22769.6	22203.3
60°	16225.1	13617.1	12413.8	11923.8	11646.1	11363.0	14689.7	19878.5	19976.5	19736.9
62.5°	14020.0	9441.0	7840.3	7704.2	7769.5	8804.0	14199.7	19143.4	18555.4	18038.2
65°	11314.0	6882.1	5695.1	5515.4	6152.5	7268.6	11493.7	14678.8	13775.0	13344.9
67.5°	7105.3	5020.0	3849.4	3511.8	4279.5	5003.6	7551.7	9223.3	8210.5	7617.1
70°	4214.2	2804.0	1742.3	1562.6	1758.6	2667.9	4230.5	4600.7	3805.8	3500.9
72.5°	1660.6	1029.0	484.6	413.8	430.1	936.5	1557.2	1519.1	1148.8	1023.6
75°	446.5	310.3	168.8	136.1	114.3	174.2	250.5	163.3	59.9	76.2
77.5°	206.9	185.1	147.0	114.3	87.1	65.3	32.7	10.9	10.9	5.4
80°	179.7	157.9	136.1	114.3	87.1	54.4	27.2	5.4	5.4	5.4
82.5°	168.8	147.0	125.2	103.4	81.7	54.4	27.2	5.4	0.0	0.0
85°	70.8	92.6	103.4	98.0	87.1	54.4	27.2	5.4	0.0	0.0
87.5°	38.1	32.7	27.2	21.8	16.3	10.9	10.9	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

(END OF REPORT)