

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: P532085

Luminaire Tested: **GALN-SA7B-830-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532085
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-SA7B-830-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA 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: 17411 lumens
Efficiency: N/A
Efficacy: 60.9 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): 286
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



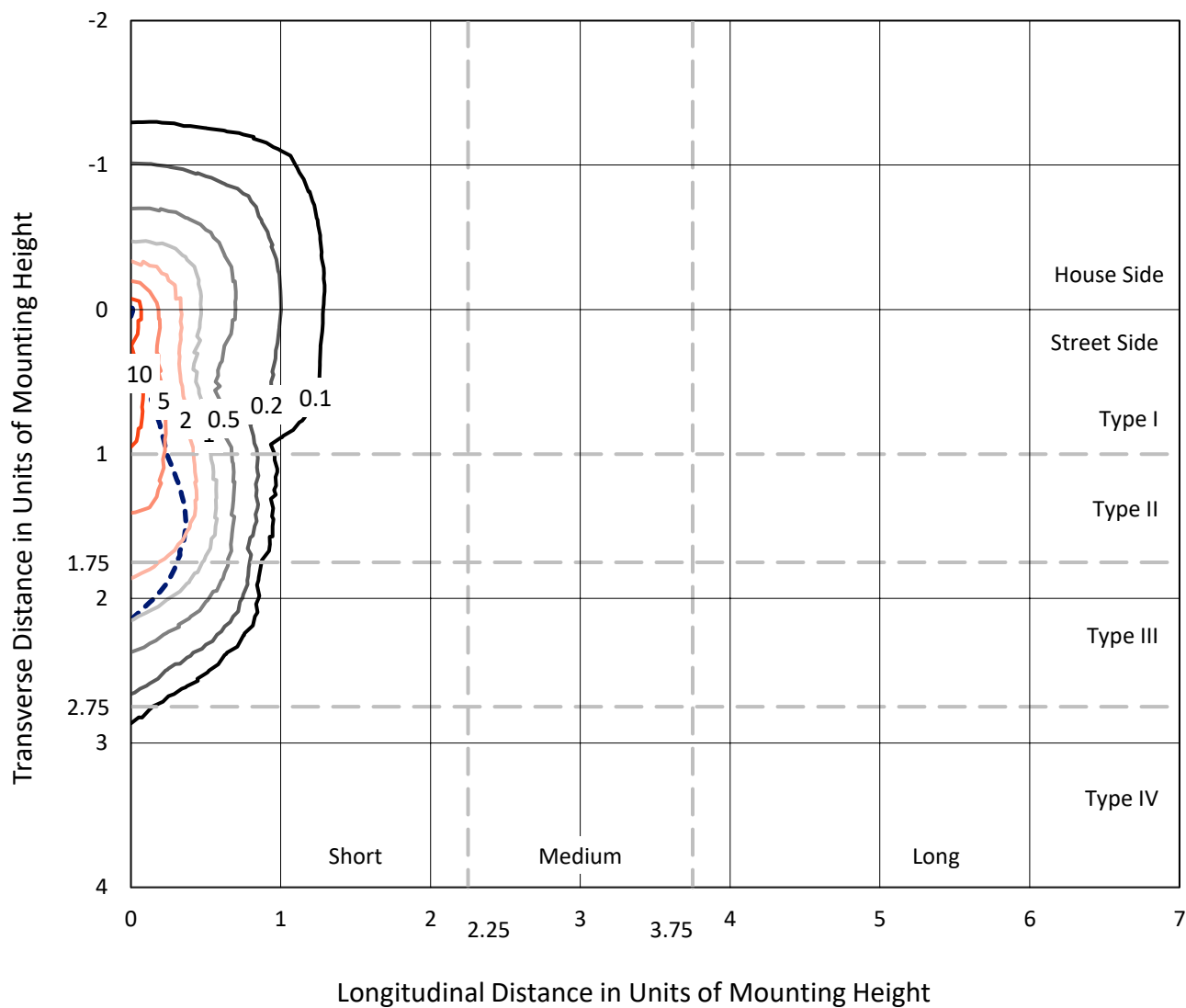
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



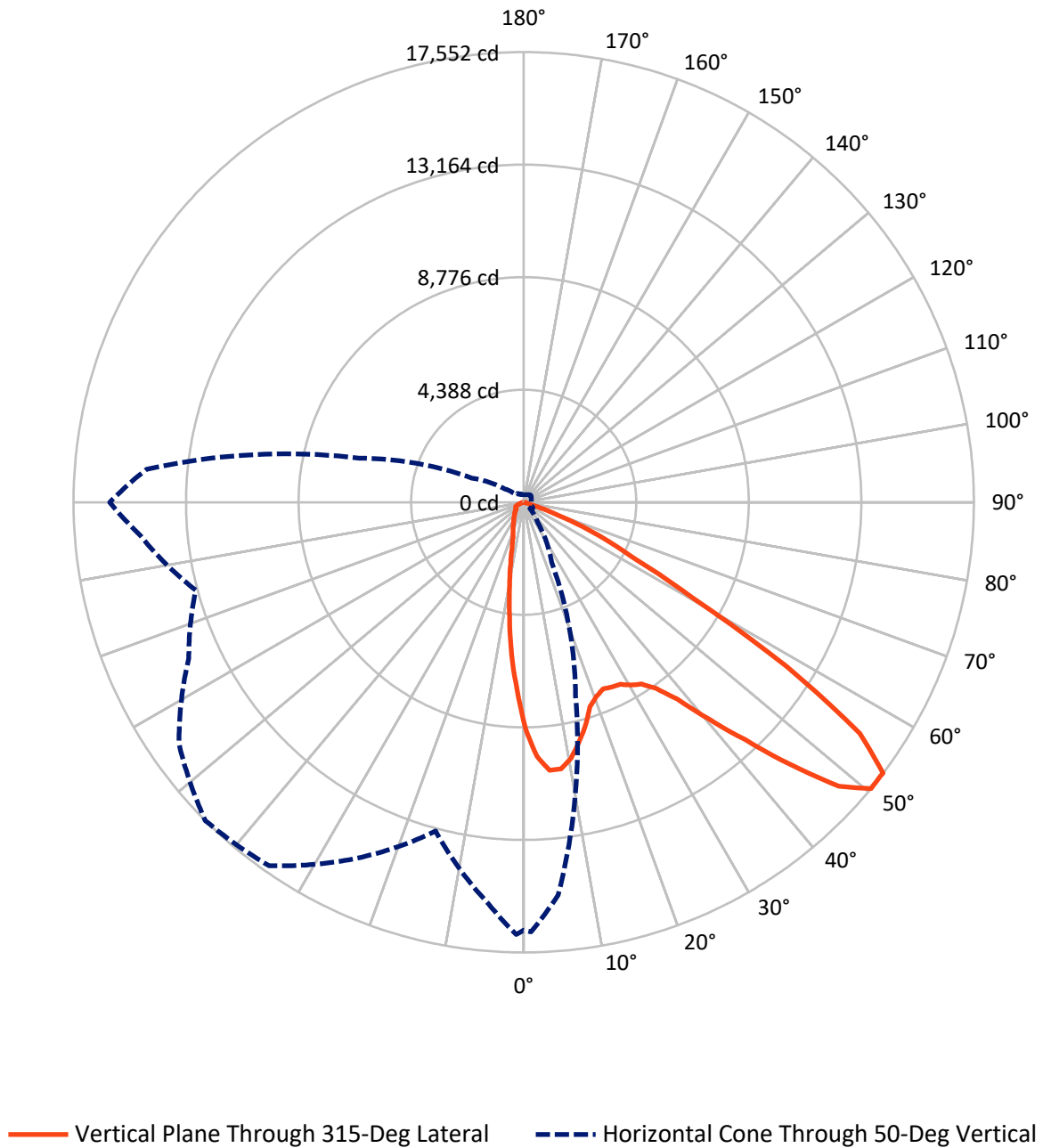
Based on 25 foot mounting height. Maximum calculated value = 14.1 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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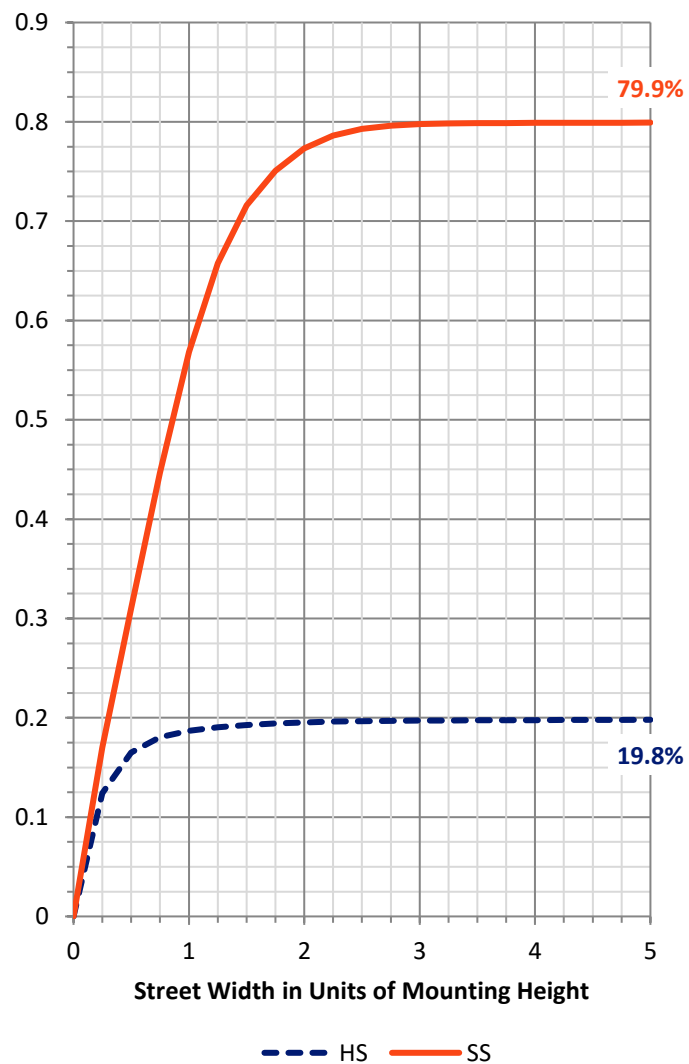
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3487.4	0.0	3487.4
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	13923.6	0.0	13923.6
	% Fixture	80.0	0.0	80.0
Total	Lumens	17411.0	0.0	17411.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.6	3.7
10°-20°	1279.1	7.3
20°-30°	1921.6	11.0
30°-40°	2884.2	16.6
40°-50°	4053.6	23.3
50°-60°	4372.5	25.1
60°-70°	2030.1	11.7
70°-80°	191.0	1.1
80°-90°	35.2	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°	17411.0	100.0
0°-180°	17411.0	100.0

Coefficient of Utilization



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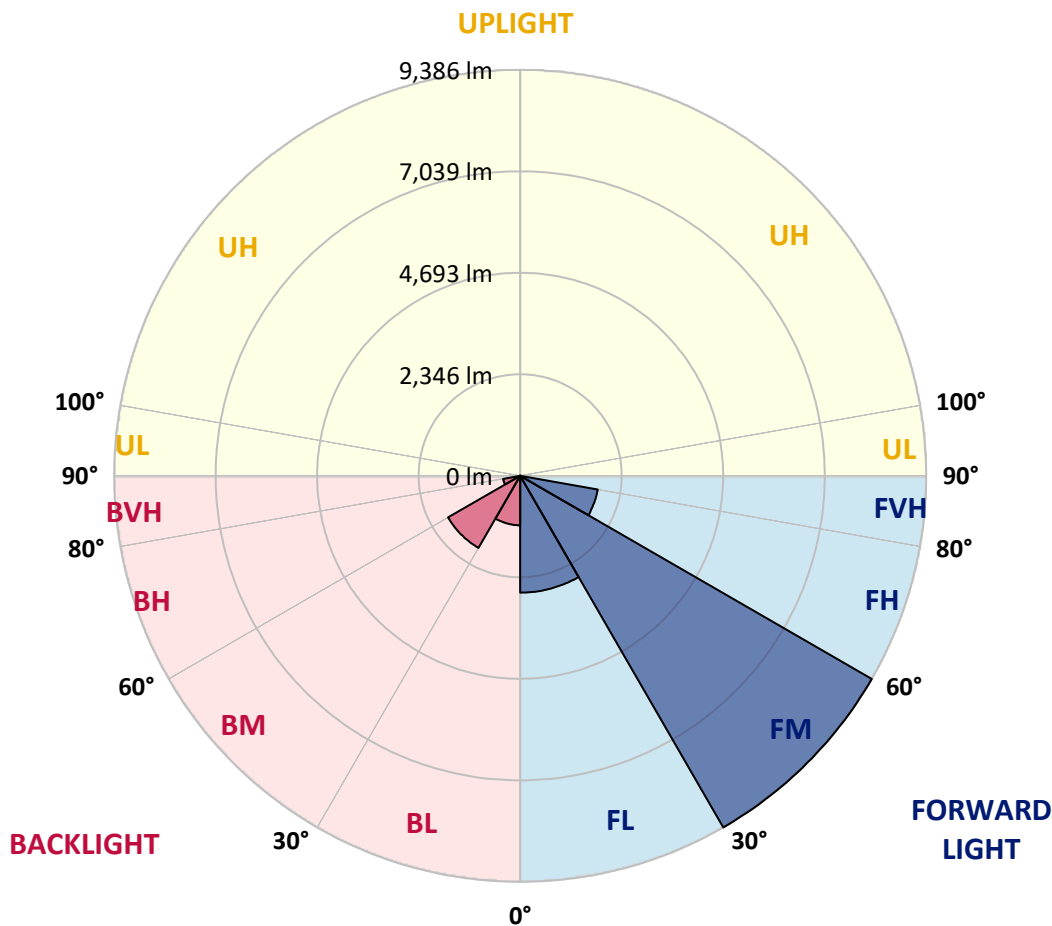
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2701.2	15.5			
FM	(30°-60°)	9385.8	53.9			
FH	(60°-80°)	1820.7	10.5			G2/5000
FVH	(80°-90°)	15.9	0.1			G1/100
BL	(0°-30°)	1143.1	6.6	B3/2500		
BM	(30°-60°)	1924.5	11.1	B2/2500		
BH	(60°-80°)	400.4	2.3	B1/500		G1/500
BVH	(80°-90°)	19.3	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°	8829.6	8829.6	8829.6	8829.6	8829.6	8829.6	8829.6	8829.6	8829.6	8829.6	8829.6
2.5°	9178.5	9036.8	8857.2	8708.7	8487.6	8042.0	7921.1	7776.0	7655.1	7492.7	7264.7
5°	8345.9	8301.0	8218.1	7658.5	7254.3	6715.4	6273.3	6086.7	5841.5	5641.1	5496.0
7.5°	7710.3	7530.7	7268.2	6705.1	6059.1	5482.2	4991.7	4705.0	4380.2	4269.7	4072.8
10°	7029.8	7071.3	6684.4	5893.3	5112.6	4646.2	4342.2	4065.9	3772.3	3578.8	3299.0
12.5°	6812.2	6677.4	6380.4	5402.8	4736.0	4300.8	3931.2	3589.2	3278.3	2967.4	2697.9
15°	6953.8	6746.5	6332.0	5299.1	4445.9	3903.5	3440.6	2977.7	2691.0	2293.8	2013.9
17.5°	7461.6	7295.8	6739.6	5409.7	4297.3	3523.5	2836.1	2359.4	1920.7	1561.4	1419.8
20°	8307.9	8073.0	7375.2	5551.3	4076.2	3064.1	2300.7	1713.4	1298.9	1146.9	1067.4
22.5°	9137.0	9009.2	8128.3	5824.2	3879.3	2656.5	1727.2	1153.8	970.7	943.1	891.2
25°	10715.7	10332.3	9278.7	6318.2	3727.4	2273.0	1302.3	929.2	822.2	801.4	808.3
27.5°	11655.3	11334.0	10342.6	6646.4	3558.1	1979.4	1102.0	853.2	780.7	735.8	718.5
30°	12556.9	12183.8	10871.2	6839.8	3195.4	1668.5	977.6	818.7	801.4	735.8	715.1
32.5°	13251.3	12885.1	11634.6	7130.0	3046.8	1468.1	804.9	639.1	594.2	587.3	649.4
35°	14315.2	13924.9	12287.5	7288.9	2932.8	1364.5	697.8	570.0	518.2	497.4	500.9
37.5°	15306.7	15040.7	12892.0	7351.1	2811.9	1333.4	625.3	511.3	466.4	452.5	449.1
40°	16135.7	15541.6	13465.4	7416.7	2760.1	1274.7	580.3	466.4	435.3	414.5	414.5
42.5°	16515.7	15911.2	14108.0	7378.7	2746.3	1181.4	580.3	428.4	404.2	383.4	380.0
45°	16432.8	16187.5	14394.7	7361.4	2746.3	1088.2	528.5	418.0	383.4	355.8	348.9
47.5°	16647.0	16325.7	14754.0	7434.0	2691.0	1022.5	445.6	438.7	362.7	328.2	321.3
50°	16685.0	16747.2	15379.2	7810.5	2570.1	939.6	348.9	431.8	348.9	297.1	290.2
52°	16933.7	16546.8	15569.2	8010.9	2442.3	877.4	293.6	369.6	335.1	276.4	269.4
52.5°	16591.7	16843.9	15614.1	8083.4	2456.1	836.0	283.3	362.7	328.2	276.4	259.1
55°	16208.3	16450.1	15431.0	8238.9	2252.3	656.3	221.1	262.5	297.1	241.8	231.4
57.5°	14087.2	14332.5	13410.2	7544.5	1834.3	462.9	183.1	196.9	262.5	224.5	214.2
60°	12522.4	12346.2	11254.6	6294.0	1302.3	259.1	145.1	152.0	286.7	207.3	203.8
62.5°	11444.6	11068.1	9406.5	4860.4	794.5	172.7	114.0	117.5	221.1	193.4	193.4
65°	8466.9	8045.4	6249.1	2939.7	390.4	120.9	86.4	93.3	138.2	165.8	165.8
67.5°	4832.8	4670.4	3019.2	1326.5	162.4	76.0	65.6	72.5	107.1	134.7	127.8
70°	2221.2	1993.2	1160.7	279.8	76.0	51.8	51.8	58.7	86.4	100.2	93.3
72.5°	649.4	614.9	283.3	44.9	31.1	31.1	34.5	44.9	65.6	76.0	69.1
75°	48.4	31.1	20.7	13.8	13.8	20.7	27.6	44.9	65.6	72.5	58.7
77.5°	3.5	6.9	3.5	3.5	10.4	20.7	31.1	55.3	86.4	89.8	65.6
80°	3.5	3.5	0.0	3.5	10.4	20.7	34.5	62.2	96.7	103.6	55.3
82.5°	0.0	0.0	0.0	3.5	13.8	27.6	41.5	65.6	89.8	110.5	58.7
85°	0.0	0.0	0.0	3.5	20.7	38.0	48.4	17.3	10.4	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°	8829.6	8829.6	8829.6	8829.6	8829.6	8829.6	8829.6	8829.6	8829.6	8829.6	8829.6
2.5°	7427.1	7337.2	7302.7	7333.8	7323.4	7313.1	7503.1	7461.6	7454.7	7516.9	7503.1
5°	5575.5	5416.6	5851.8	5675.7	5858.7	5969.3	5990.0	6000.4	6128.2	5993.5	6169.6
7.5°	3972.6	4014.1	4010.6	4128.1	4338.8	4525.3	4635.9	4549.5	4542.6	4525.3	4449.3
10°	3174.6	3102.1	3088.3	3060.6	3126.3	3285.2	3419.9	3312.8	3236.8	3340.5	3309.4
12.5°	2594.3	2494.1	2438.8	2328.3	2331.8	2438.8	2438.8	2438.8	2514.8	2573.6	2618.5
15°	1989.8	1906.9	1906.9	1796.3	1772.1	1775.6	1830.9	1837.8	1958.7	1993.2	2010.5
17.5°	1392.1	1347.2	1399.1	1444.0	1416.3	1423.2	1444.0	1450.9	1468.1	1454.3	1488.9
20°	1070.9	1064.0	1077.8	1157.2	1216.0	1250.5	1226.3	1191.8	1171.1	1122.7	1122.7
22.5°	908.5	922.3	946.5	1012.2	1088.2	1108.9	1081.2	1001.8	939.6	932.7	936.2
25°	808.3	822.2	860.2	901.6	943.1	977.6	950.0	891.2	856.7	825.6	825.6
27.5°	746.2	753.1	773.8	804.9	839.4	867.1	856.7	825.6	787.6	773.8	742.7
30°	697.8	708.2	732.3	739.3	770.3	784.2	766.9	760.0	735.8	718.5	708.2
32.5°	673.6	670.2	687.4	694.3	697.8	708.2	687.4	697.8	694.3	666.7	656.3
35°	507.8	535.4	580.3	618.3	628.7	642.5	639.1	625.3	587.3	556.2	518.2
37.5°	456.0	473.3	497.4	528.5	570.0	587.3	580.3	545.8	500.9	480.2	473.3
40°	421.4	431.8	452.5	473.3	514.7	545.8	521.6	490.5	456.0	438.7	428.4
42.5°	390.4	393.8	404.2	424.9	456.0	504.3	462.9	421.4	407.6	397.3	390.4
45°	355.8	355.8	369.6	380.0	414.5	459.4	418.0	380.0	373.1	366.2	362.7
47.5°	328.2	331.6	338.5	352.4	380.0	411.1	383.4	352.4	335.1	331.6	324.7
50°	293.6	297.1	310.9	324.7	359.3	376.5	359.3	324.7	307.4	297.1	297.1
52°	266.0	276.4	290.2	317.8	342.0	369.6	348.9	310.9	290.2	279.8	272.9
52.5°	262.5	269.4	283.3	314.4	342.0	366.2	345.4	307.4	283.3	276.4	269.4
55°	234.9	245.3	269.4	307.4	338.5	366.2	338.5	304.0	269.4	252.2	245.3
57.5°	224.5	231.4	262.5	310.9	335.1	366.2	338.5	304.0	269.4	238.4	231.4
60°	214.2	228.0	262.5	300.5	331.6	369.6	342.0	300.5	262.5	224.5	224.5
62.5°	203.8	214.2	259.1	293.6	317.8	355.8	328.2	293.6	252.2	214.2	210.7
65°	176.2	193.4	228.0	245.3	272.9	307.4	279.8	255.6	221.1	190.0	186.5
67.5°	134.7	141.6	169.3	190.0	207.3	238.4	224.5	193.4	169.3	145.1	145.1
70°	93.3	100.2	120.9	131.3	148.5	165.8	155.5	131.3	114.0	100.2	96.7
72.5°	65.6	69.1	76.0	82.9	89.8	96.7	93.3	76.0	65.6	62.2	58.7
75°	51.8	58.7	62.2	58.7	55.3	51.8	51.8	44.9	38.0	34.5	34.5
77.5°	51.8	55.3	51.8	44.9	38.0	34.5	31.1	27.6	20.7	17.3	20.7
80°	44.9	44.9	44.9	38.0	34.5	31.1	27.6	24.2	20.7	17.3	17.3
82.5°	48.4	48.4	44.9	38.0	38.0	31.1	31.1	27.6	24.2	17.3	17.3
85°	0.0	0.0	0.0	6.9	17.3	31.1	31.1	27.6	24.2	20.7	20.7
87.5°	0.0	0.0	0.0	0.0	3.5	6.9	13.8	17.3	20.7	20.7	20.7
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°	8829.6	8829.6	8829.6	8829.6	8829.6	8829.6	8829.6	8829.6	8829.6	8829.6	8829.6
2.5°	7627.4	7758.7	8007.4	8256.1	8408.1	8587.8	8912.5	9085.2	9309.7	9420.3	9637.9
5°	6145.5	6456.4	6566.9	6850.2	7154.2	7458.2	7941.8	8473.8	8915.9	9219.9	9613.7
7.5°	4483.9	4556.4	4984.8	5174.8	5672.2	6224.9	6884.7	7554.9	8114.5	8611.9	8912.5
10°	3361.2	3627.2	3896.6	4259.3	4660.1	5230.0	5862.2	6601.5	7326.9	7824.3	8204.3
12.5°	2701.4	2912.1	3271.4	3661.7	4155.7	4532.2	5167.9	5900.2	6839.8	7326.9	7827.8
15°	2045.0	2314.5	2722.1	3126.3	3647.9	4045.2	4687.7	5610.0	6819.1	7489.2	7921.1
17.5°	1516.5	1699.6	2065.8	2518.3	3050.3	3609.9	4477.0	5578.9	7050.5	7848.5	8294.1
20°	1160.7	1222.9	1454.3	1858.5	2435.4	3167.7	4135.0	5713.7	7734.5	8722.5	9175.0
22.5°	939.6	967.2	1057.1	1336.9	1896.5	2780.8	3972.6	5806.9	8504.9	9769.2	10373.7
25°	818.7	811.8	870.5	991.4	1482.0	2418.1	3765.3	6159.3	9447.9	10999.0	11541.3
27.5°	746.2	746.2	773.8	860.2	1229.8	2183.2	3634.1	6411.5	10397.9	12080.2	12373.8
30°	708.2	715.1	794.5	822.2	1022.5	1903.4	3416.5	6667.1	11306.4	12771.1	13175.3
32.5°	656.3	628.7	611.4	680.5	860.2	1651.2	3198.8	6774.2	12042.2	13617.4	13962.9
35°	504.3	490.5	511.3	563.1	739.3	1437.1	2957.0	6895.1	12888.5	14598.5	14667.6
37.5°	456.0	452.5	466.4	511.3	621.8	1250.5	2784.3	6864.0	13534.5	15410.3	15223.8
40°	421.4	421.4	431.8	469.8	556.2	1119.2	2604.7	6836.4	14159.8	16322.3	15776.5
42.5°	393.8	393.8	411.1	435.3	528.5	1032.9	2469.9	6798.4	14684.9	16881.9	16101.2
45°	355.8	366.2	393.8	418.0	535.4	974.2	2369.8	6653.3	14864.5	16875.0	15945.7
47.5°	328.2	342.0	369.6	404.2	483.6	956.9	2300.7	6525.5	14802.3	16460.4	15458.7
50°	297.1	314.4	352.4	411.1	411.1	922.3	2228.1	6639.5	14757.4	16139.2	14992.3
52°	276.4	290.2	338.5	400.7	359.3	849.8	2183.2	6860.5	14940.5	16097.7	14785.0
52.5°	272.9	283.3	328.2	393.8	342.0	836.0	2152.1	6912.4	14999.2	15994.1	14926.7
55°	241.8	255.6	300.5	307.4	279.8	687.4	2051.9	7029.8	14709.0	15790.3	14792.0
57.5°	228.0	234.9	266.0	252.2	241.8	518.2	1765.2	6846.7	13064.7	14025.1	13762.5
60°	210.7	217.6	248.7	196.9	203.8	362.7	1326.5	5945.1	10491.2	11686.4	12159.7
62.5°	203.8	200.4	234.9	158.9	172.7	262.5	936.2	4832.8	8083.4	9620.6	10439.3
65°	179.6	176.2	169.3	134.7	148.5	203.8	559.6	3153.9	5696.4	7278.5	7727.6
67.5°	138.2	145.1	124.4	107.1	124.4	158.9	310.9	1412.9	2988.1	4366.4	4729.1
70°	96.7	103.6	100.2	93.3	110.5	131.3	179.6	483.6	1236.7	2293.8	2528.7
72.5°	58.7	72.5	76.0	79.5	96.7	114.0	127.8	155.5	328.2	811.8	1008.7
75°	34.5	48.4	58.7	69.1	79.5	96.7	107.1	110.5	114.0	152.0	245.3
77.5°	24.2	34.5	51.8	65.6	79.5	96.7	114.0	120.9	114.0	107.1	114.0
80°	20.7	34.5	48.4	62.2	82.9	100.2	114.0	114.0	110.5	96.7	103.6
82.5°	20.7	34.5	51.8	65.6	79.5	96.7	110.5	114.0	103.6	96.7	100.2
85°	24.2	38.0	55.3	69.1	86.4	79.5	72.5	58.7	55.3	44.9	48.4
87.5°	24.2	34.5	34.5	38.0	41.5	41.5	41.5	38.0	31.1	27.6	27.6
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°	8829.6	8829.6	8829.6	8829.6	8829.6	8829.6	8829.6	8829.6	8829.6	8829.6
2.5°	9648.3	9924.6	9914.3	9921.2	9879.7	9599.9	9465.2	9123.2	9219.9	9178.5
5°	10017.9	10290.8	10525.7	10498.1	10180.3	9800.3	9237.2	8705.2	8560.1	8345.9
7.5°	9648.3	10304.6	10522.3	10491.2	10021.4	9534.3	8636.1	8104.1	7852.0	7710.3
10°	9061.0	9821.0	10090.4	10145.7	9827.9	9088.7	8263.0	7409.8	7275.1	7029.8
12.5°	8725.9	9278.7	9444.5	9593.0	9482.5	8929.8	7979.8	7161.1	6974.5	6812.2
15°	8453.0	8781.2	8850.3	9019.6	9085.2	8788.1	8128.3	7430.5	6971.1	6953.8
17.5°	8705.2	8570.5	8318.3	8370.1	8577.4	8791.6	8511.8	7962.5	7516.9	7461.6
20°	9123.2	8529.0	7959.1	8086.9	8259.6	8915.9	9092.1	8705.2	8449.6	8307.9
22.5°	9603.4	8601.6	7845.1	7907.2	8235.4	9195.7	10031.7	9817.5	9340.8	9137.0
25°	10491.2	8801.9	7934.9	7976.3	8425.4	9586.1	10881.5	11040.4	10757.2	10715.7
27.5°	11358.2	9320.1	8131.8	8038.5	8522.1	9966.1	11396.2	12249.5	11752.0	11655.3
30°	11800.4	9741.5	8425.4	8266.5	8922.8	10197.5	11707.1	13037.1	12601.8	12556.9
32.5°	12477.5	10125.0	8653.4	8449.6	9147.4	10484.3	12287.5	13897.2	13475.8	13251.3
35°	12760.7	10543.0	9154.3	8915.9	9789.9	10885.0	12584.6	14664.1	14532.9	14315.2
37.5°	13306.5	10992.1	9745.0	9731.2	10567.2	11406.6	13120.0	15707.4	15683.2	15306.7
40°	13351.4	11482.6	10677.7	11113.0	11769.3	12315.1	13589.8	15997.6	16391.4	16135.7
42.5°	13420.5	12342.7	12290.9	12650.2	13213.3	13095.8	13607.1	16066.6	16667.7	16515.7
45°	13451.6	13202.9	13931.8	14595.0	14829.9	14118.3	13444.7	15935.4	16812.8	16432.8
47.5°	13202.9	13942.2	15258.3	16539.9	16609.0	14747.0	13375.6	15800.6	16899.2	16647.0
50°	13237.4	14405.1	16405.2	17552.1	17299.9	15303.2	13268.5	15717.7	16854.3	16685.0
52°	13154.5	14415.4	16567.5	17531.3	17355.2	14995.8	13085.5	15399.9	16812.8	16933.7
52.5°	13247.8	14353.2	16398.3	17545.1	17317.2	15147.8	13061.3	15576.1	16837.0	16591.7
55°	12926.5	13614.0	15406.8	15893.9	15859.4	13748.7	12318.6	14992.3	16204.8	16208.3
57.5°	11682.9	11800.4	12083.7	12073.3	11914.4	10809.0	10536.1	13786.7	14446.5	14087.2
60°	10294.3	8639.6	7876.1	7565.2	7389.1	7209.4	9320.1	12612.2	12674.4	12522.4
62.5°	8895.2	5990.0	4974.4	4888.0	4929.5	5585.8	9009.2	12145.8	11772.8	11444.6
65°	7178.3	4366.4	3613.4	3499.4	3903.5	4611.7	7292.3	9313.2	8739.8	8466.9
67.5°	4508.1	3185.0	2442.3	2228.1	2715.2	3174.6	4791.3	5851.8	5209.3	4832.8
70°	2673.7	1779.0	1105.4	991.4	1115.8	1692.7	2684.1	2919.0	2414.7	2221.2
72.5°	1053.6	652.9	307.4	262.5	272.9	594.2	988.0	963.8	728.9	649.4
75°	283.3	196.9	107.1	86.4	72.5	110.5	158.9	103.6	38.0	48.4
77.5°	131.3	117.5	93.3	72.5	55.3	41.5	20.7	6.9	6.9	3.5
80°	114.0	100.2	86.4	72.5	55.3	34.5	17.3	3.5	3.5	3.5
82.5°	107.1	93.3	79.5	65.6	51.8	34.5	17.3	3.5	0.0	0.0
85°	44.9	58.7	65.6	62.2	55.3	34.5	17.3	3.5	0.0	0.0
87.5°	24.2	20.7	17.3	13.8	10.4	6.9	6.9	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)