

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: P531851

Luminaire Tested: **GALN-SA7A-830-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531851
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-SA7A-830-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA 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: 13993 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

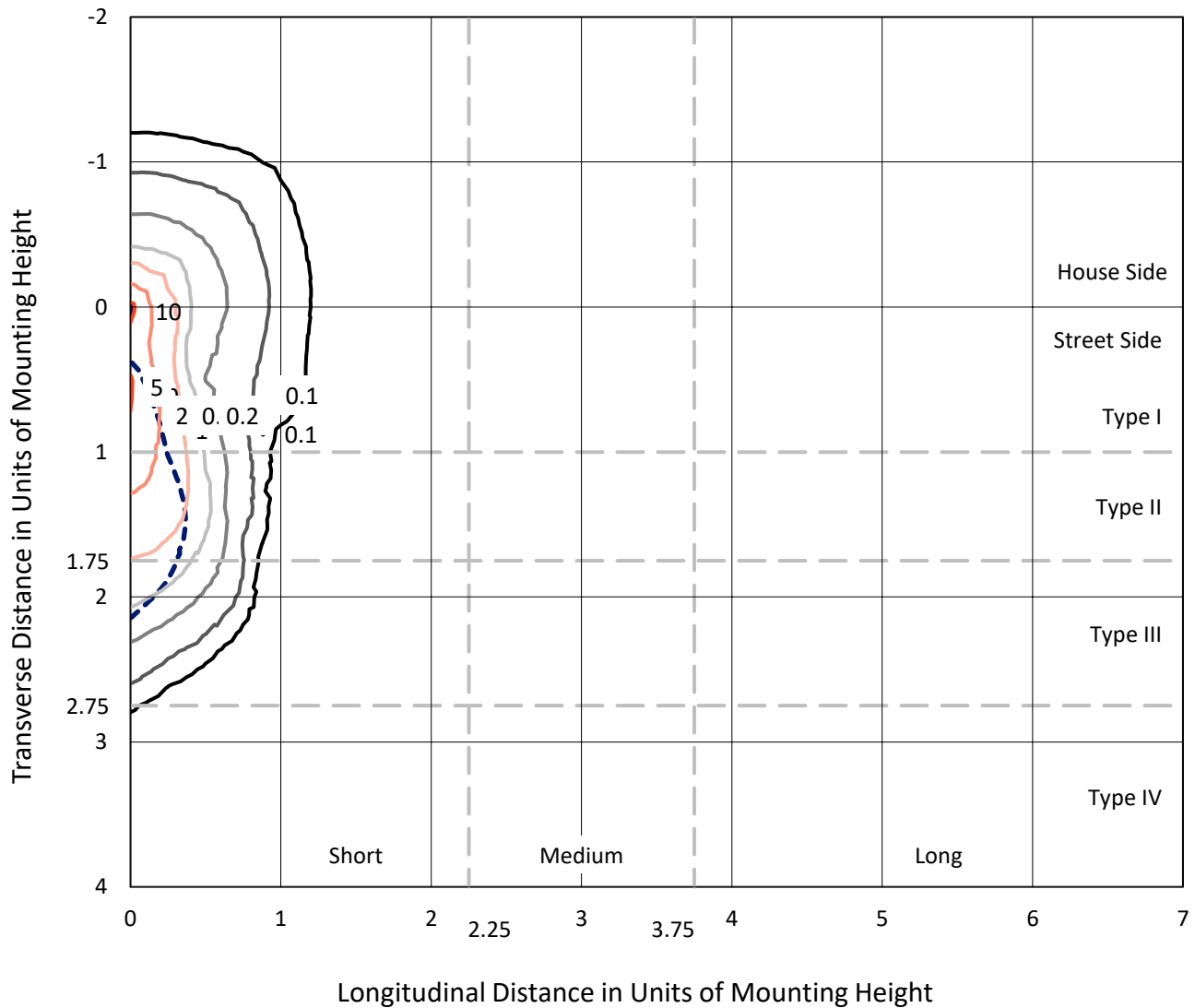
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

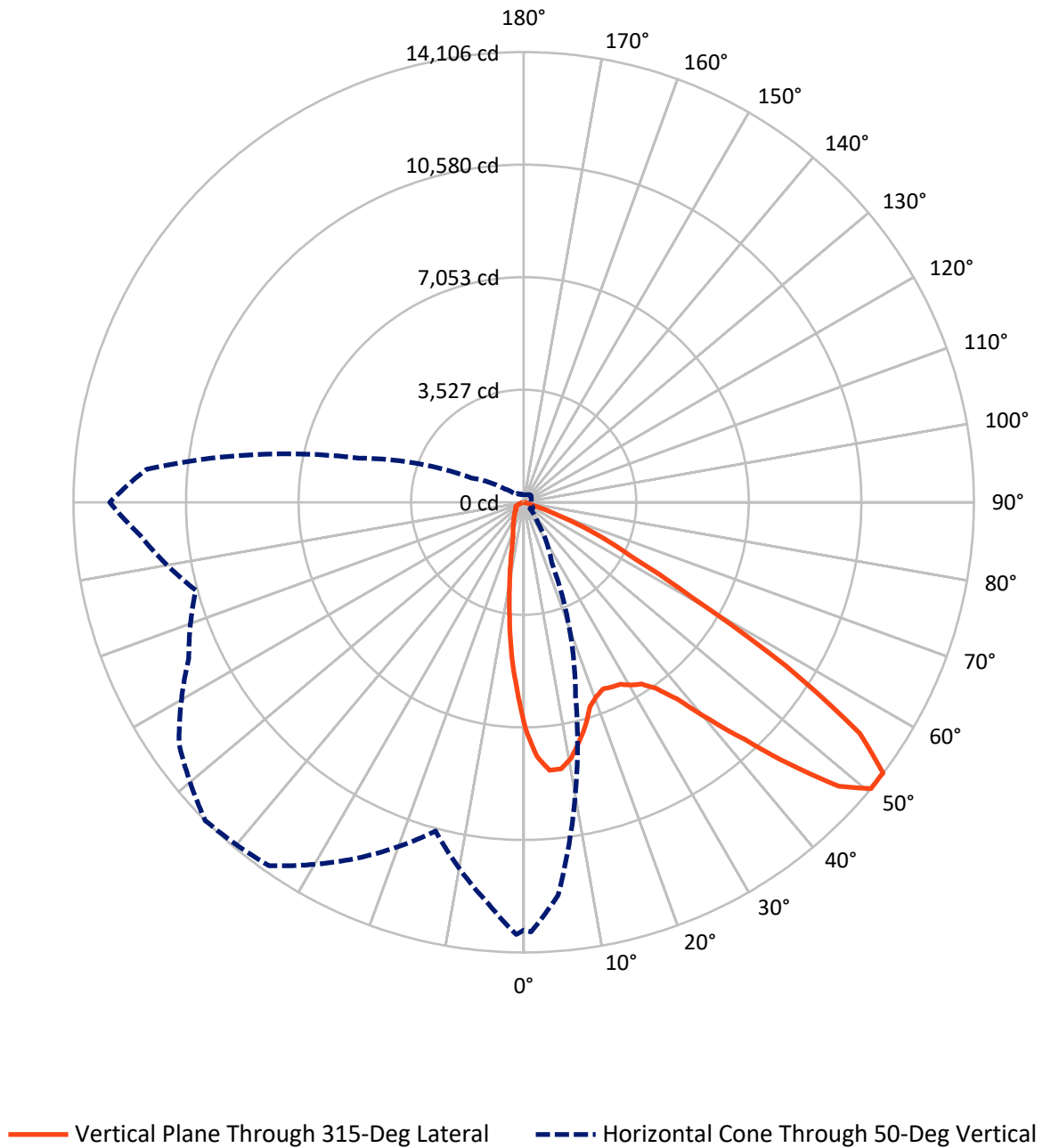


Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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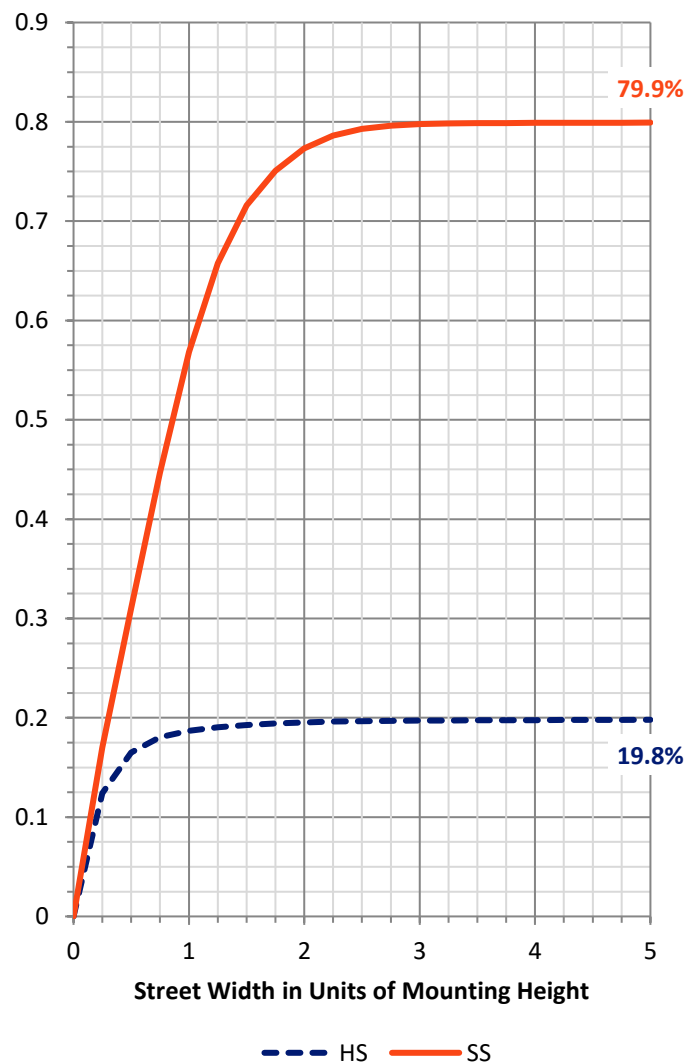
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2802.8	0.0	2802.8
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	11190.2	0.0	11190.2
	% Fixture	80.0	0.0	80.0
Total	Lumens	13993.0	0.0	13993.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.2	3.7
10°-20°	1028.0	7.3
20°-30°	1544.4	11.0
30°-40°	2318.0	16.6
40°-50°	3257.8	23.3
50°-60°	3514.1	25.1
60°-70°	1631.6	11.7
70°-80°	153.5	1.1
80°-90°	28.3	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°	13993.0	100.0
0°-180°	13993.0	100.0

Coefficient of Utilization



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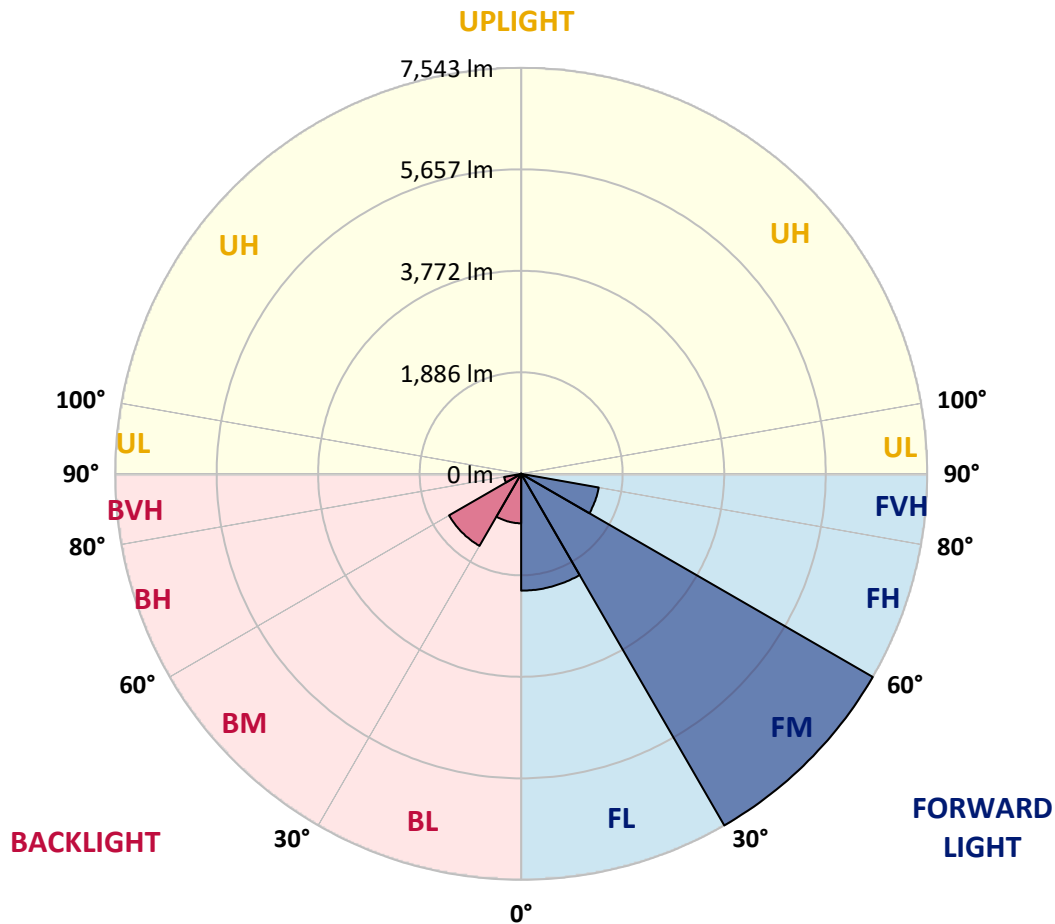
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2170.9	15.5			
FM	(30°-60°)	7543.3	53.9			
FH	(60°-80°)	1463.3	10.5			G1/1800
FVH	(80°-90°)	12.7	0.1			G1/100
BL	(0°-30°)	918.7	6.6	B2/1000		
BM	(30°-60°)	1546.7	11.1	B2/2500		
BH	(60°-80°)	321.8	2.3	B1/500		G1/500
BVH	(80°-90°)	15.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2
2.5°	7376.6	7262.8	7118.4	6999.0	6821.4	6463.2	6366.0	6249.4	6152.3	6021.8	5838.6
5°	6707.5	6671.4	6604.8	6155.1	5830.2	5397.1	5041.8	4891.8	4694.7	4533.7	4417.1
7.5°	6196.7	6052.3	5841.3	5388.8	4869.6	4406.0	4011.7	3781.3	3520.3	3431.5	3273.3
10°	5649.8	5683.1	5372.1	4736.4	4108.9	3734.1	3489.8	3267.7	3031.7	2876.2	2651.4
12.5°	5474.9	5366.6	5127.8	4342.1	3806.3	3456.5	3159.4	2884.6	2634.7	2384.8	2168.3
15°	5588.7	5422.1	5089.0	4258.8	3573.1	3137.2	2765.2	2393.2	2162.7	1843.5	1618.6
17.5°	5996.8	5863.5	5416.6	4347.7	3453.7	2831.8	2279.3	1896.2	1543.6	1254.9	1141.1
20°	6677.0	6488.2	5927.4	4461.5	3276.0	2462.6	1849.0	1377.0	1043.9	921.7	857.9
22.5°	7343.3	7240.6	6532.6	4680.8	3117.8	2135.0	1388.1	927.3	780.1	757.9	716.3
25°	8612.1	8303.9	7457.1	5077.8	2995.6	1826.8	1046.7	746.8	660.8	644.1	649.7
27.5°	9367.2	9109.0	8312.2	5341.6	2859.6	1590.8	885.6	685.7	627.4	591.4	577.5
30°	10091.8	9792.0	8737.0	5497.1	2568.1	1341.0	785.7	658.0	644.1	591.4	574.7
32.5°	10649.9	10355.6	9350.6	5730.3	2448.7	1179.9	646.9	513.6	477.5	472.0	521.9
35°	11505.0	11191.3	9875.3	5858.0	2357.1	1096.6	560.8	458.1	416.4	399.8	402.6
37.5°	12301.8	12088.0	10361.1	5908.0	2259.9	1071.7	502.5	410.9	374.8	363.7	360.9
40°	12968.1	12490.6	10822.0	5960.7	2218.3	1024.5	466.4	374.8	349.8	333.2	333.2
42.5°	13273.5	12787.6	11338.4	5930.2	2207.2	949.5	466.4	344.3	324.8	308.2	305.4
45°	13206.8	13009.7	11568.8	5916.3	2207.2	874.5	424.8	335.9	308.2	286.0	280.4
47.5°	13379.0	13120.8	11857.6	5974.6	2162.7	821.8	358.1	352.6	291.5	263.7	258.2
50°	13409.5	13459.5	12360.1	6277.2	2065.6	755.2	280.4	347.0	280.4	238.8	233.2
52°	13609.4	13298.5	12512.8	6438.2	1962.8	705.2	236.0	297.1	269.3	222.1	216.6
52.5°	13334.6	13537.2	12548.9	6496.5	1973.9	671.9	227.7	291.5	263.7	222.1	208.2
55°	13026.4	13220.7	12401.7	6621.5	1810.1	527.5	177.7	211.0	238.8	194.3	186.0
57.5°	11321.7	11518.9	10777.6	6063.4	1474.2	372.0	147.1	158.2	211.0	180.5	172.1
60°	10064.1	9922.5	9045.2	5058.4	1046.7	208.2	116.6	122.2	230.4	166.6	163.8
62.5°	9197.9	8895.3	7559.9	3906.2	638.5	138.8	91.6	94.4	177.7	155.5	155.5
65°	6804.7	6466.0	5022.3	2362.6	313.7	97.2	69.4	75.0	111.1	133.3	133.3
67.5°	3884.0	3753.6	2426.5	1066.1	130.5	61.1	52.7	58.3	86.1	108.3	102.7
70°	1785.2	1601.9	932.8	224.9	61.1	41.6	41.6	47.2	69.4	80.5	75.0
72.5°	521.9	494.2	227.7	36.1	25.0	25.0	27.8	36.1	52.7	61.1	55.5
75°	38.9	25.0	16.7	11.1	11.1	16.7	22.2	36.1	52.7	58.3	47.2
77.5°	2.8	5.6	2.8	2.8	8.3	16.7	25.0	44.4	69.4	72.2	52.7
80°	2.8	2.8	0.0	2.8	8.3	16.7	27.8	50.0	77.7	83.3	44.4
82.5°	0.0	0.0	0.0	2.8	11.1	22.2	33.3	52.7	72.2	88.8	47.2
85°	0.0	0.0	0.0	2.8	16.7	30.5	38.9	13.9	8.3	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°	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2
2.5°	5969.0	5896.9	5869.1	5894.1	5885.7	5877.4	6030.1	5996.8	5991.2	6041.2	6030.1
5°	4480.9	4353.2	4703.0	4561.5	4708.6	4797.4	4814.1	4822.4	4925.2	4816.9	4958.5
7.5°	3192.7	3226.1	3223.3	3317.7	3487.0	3636.9	3725.8	3656.4	3650.8	3636.9	3575.9
10°	2551.4	2493.1	2482.0	2459.8	2512.5	2640.3	2748.5	2662.5	2601.4	2684.7	2659.7
12.5°	2085.0	2004.5	1960.1	1871.2	1874.0	1960.1	1960.1	1960.1	2021.1	2068.3	2104.4
15°	1599.1	1532.5	1532.5	1443.7	1424.2	1427.0	1471.4	1477.0	1574.2	1601.9	1615.8
17.5°	1118.8	1082.8	1124.4	1160.5	1138.3	1143.8	1160.5	1166.0	1179.9	1168.8	1196.6
20°	860.7	855.1	866.2	930.1	977.3	1005.0	985.6	957.8	941.2	902.3	902.3
22.5°	730.2	741.3	760.7	813.5	874.5	891.2	869.0	805.1	755.2	749.6	752.4
25°	649.7	660.8	691.3	724.6	757.9	785.7	763.5	716.3	688.5	663.5	663.5
27.5°	599.7	605.2	621.9	646.9	674.6	696.9	688.5	663.5	633.0	621.9	596.9
30°	560.8	569.1	588.6	594.1	619.1	630.2	616.3	610.8	591.4	577.5	569.1
32.5°	541.4	538.6	552.5	558.0	560.8	569.1	552.5	560.8	558.0	535.8	527.5
35°	408.1	430.3	466.4	497.0	505.3	516.4	513.6	502.5	472.0	447.0	416.4
37.5°	366.5	380.4	399.8	424.8	458.1	472.0	466.4	438.7	402.6	385.9	380.4
40°	338.7	347.0	363.7	380.4	413.7	438.7	419.2	394.2	366.5	352.6	344.3
42.5°	313.7	316.5	324.8	341.5	366.5	405.3	372.0	338.7	327.6	319.3	313.7
45°	286.0	286.0	297.1	305.4	333.2	369.2	335.9	305.4	299.8	294.3	291.5
47.5°	263.7	266.5	272.1	283.2	305.4	330.4	308.2	283.2	269.3	266.5	261.0
50°	236.0	238.8	249.9	261.0	288.7	302.6	288.7	261.0	247.1	238.8	238.8
52°	213.8	222.1	233.2	255.4	274.9	297.1	280.4	249.9	233.2	224.9	219.3
52.5°	211.0	216.6	227.7	252.6	274.9	294.3	277.6	247.1	227.7	222.1	216.6
55°	188.8	197.1	216.6	247.1	272.1	294.3	272.1	244.3	216.6	202.7	197.1
57.5°	180.5	186.0	211.0	249.9	269.3	294.3	272.1	244.3	216.6	191.6	186.0
60°	172.1	183.2	211.0	241.5	266.5	297.1	274.9	241.5	211.0	180.5	180.5
62.5°	163.8	172.1	208.2	236.0	255.4	286.0	263.7	236.0	202.7	172.1	169.4
65°	141.6	155.5	183.2	197.1	219.3	247.1	224.9	205.4	177.7	152.7	149.9
67.5°	108.3	113.8	136.0	152.7	166.6	191.6	180.5	155.5	136.0	116.6	116.6
70°	75.0	80.5	97.2	105.5	119.4	133.3	124.9	105.5	91.6	80.5	77.7
72.5°	52.7	55.5	61.1	66.6	72.2	77.7	75.0	61.1	52.7	50.0	47.2
75°	41.6	47.2	50.0	47.2	44.4	41.6	41.6	36.1	30.5	27.8	27.8
77.5°	41.6	44.4	41.6	36.1	30.5	27.8	25.0	22.2	16.7	13.9	16.7
80°	36.1	36.1	36.1	30.5	27.8	25.0	22.2	19.4	16.7	13.9	13.9
82.5°	38.9	38.9	36.1	30.5	30.5	25.0	25.0	22.2	19.4	13.9	13.9
85°	0.0	0.0	0.0	5.6	13.9	25.0	25.0	22.2	19.4	16.7	16.7
87.5°	0.0	0.0	0.0	0.0	2.8	5.6	11.1	13.9	16.7	16.7	16.7
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°	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2
2.5°	6130.1	6235.6	6435.5	6635.3	6757.5	6901.9	7162.8	7301.7	7482.1	7571.0	7745.9
5°	4939.0	5188.9	5277.7	5505.4	5749.7	5994.0	6382.7	6810.3	7165.6	7409.9	7726.4
7.5°	3603.6	3661.9	4006.2	4158.9	4558.7	5002.9	5533.2	6071.8	6521.5	6921.3	7162.8
10°	2701.3	2915.1	3131.7	3423.2	3745.2	4203.3	4711.4	5305.5	5888.5	6288.3	6593.7
12.5°	2171.1	2340.4	2629.2	2942.9	3339.9	3642.5	4153.3	4741.9	5497.1	5888.5	6291.1
15°	1643.6	1860.1	2187.7	2512.5	2931.8	3251.0	3767.4	4508.7	5480.4	6019.0	6366.0
17.5°	1218.8	1365.9	1660.2	2023.9	2451.5	2901.2	3598.1	4483.7	5666.4	6307.7	6665.9
20°	932.8	982.8	1168.8	1493.6	1957.3	2545.9	3323.2	4592.0	6216.1	7010.1	7373.8
22.5°	755.2	777.4	849.5	1074.4	1524.2	2234.9	3192.7	4667.0	6835.2	7851.4	8337.2
25°	658.0	652.4	699.6	796.8	1191.0	1943.4	3026.2	4950.1	7593.2	8839.7	9275.6
27.5°	599.7	599.7	621.9	691.3	988.4	1754.6	2920.7	5152.8	8356.7	9708.7	9944.7
30°	569.1	574.7	638.5	660.8	821.8	1529.7	2745.8	5358.3	9086.8	10264.0	10588.8
32.5°	527.5	505.3	491.4	546.9	691.3	1327.1	2570.9	5444.3	9678.2	10944.2	11221.8
35°	405.3	394.2	410.9	452.5	594.1	1154.9	2376.5	5541.5	10358.4	11732.6	11788.2
37.5°	366.5	363.7	374.8	410.9	499.7	1005.0	2237.7	5516.5	10877.5	12385.1	12235.1
40°	338.7	338.7	347.0	377.6	447.0	899.5	2093.3	5494.3	11380.0	13118.0	12679.3
42.5°	316.5	316.5	330.4	349.8	424.8	830.1	1985.1	5463.8	11802.0	13567.8	12940.3
45°	286.0	294.3	316.5	335.9	430.3	782.9	1904.5	5347.1	11946.4	13562.2	12815.4
47.5°	263.7	274.9	297.1	324.8	388.7	769.0	1849.0	5244.4	11896.4	13229.1	12423.9
50°	238.8	252.6	283.2	330.4	330.4	741.3	1790.7	5336.0	11860.3	12970.9	12049.1
52°	222.1	233.2	272.1	322.1	288.7	683.0	1754.6	5513.7	12007.5	12937.5	11882.6
52.5°	219.3	227.7	263.7	316.5	274.9	671.9	1729.6	5555.4	12054.7	12854.3	11996.4
55°	194.3	205.4	241.5	247.1	224.9	552.5	1649.1	5649.8	11821.5	12690.5	11888.1
57.5°	183.2	188.8	213.8	202.7	194.3	416.4	1418.7	5502.6	10500.0	11271.8	11060.8
60°	169.4	174.9	199.9	158.2	163.8	291.5	1066.1	4778.0	8431.6	9392.2	9772.6
62.5°	163.8	161.0	188.8	127.7	138.8	211.0	752.4	3884.0	6496.5	7732.0	8390.0
65°	144.4	141.6	136.0	108.3	119.4	163.8	449.8	2534.8	4578.1	5849.7	6210.6
67.5°	111.1	116.6	99.9	86.1	99.9	127.7	249.9	1135.5	2401.5	3509.2	3800.8
70°	77.7	83.3	80.5	75.0	88.8	105.5	144.4	388.7	993.9	1843.5	2032.2
72.5°	47.2	58.3	61.1	63.9	77.7	91.6	102.7	124.9	263.7	652.4	810.7
75°	27.8	38.9	47.2	55.5	63.9	77.7	86.1	88.8	91.6	122.2	197.1
77.5°	19.4	27.8	41.6	52.7	63.9	77.7	91.6	97.2	91.6	86.1	91.6
80°	16.7	27.8	38.9	50.0	66.6	80.5	91.6	91.6	88.8	77.7	83.3
82.5°	16.7	27.8	41.6	52.7	63.9	77.7	88.8	91.6	83.3	77.7	80.5
85°	19.4	30.5	44.4	55.5	69.4	63.9	58.3	47.2	44.4	36.1	38.9
87.5°	19.4	27.8	27.8	30.5	33.3	33.3	33.3	30.5	25.0	22.2	22.2
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°	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2
2.5°	7754.2	7976.3	7968.0	7973.5	7940.2	7715.3	7607.1	7332.2	7409.9	7376.6
5°	8051.3	8270.6	8459.4	8437.2	8181.7	7876.4	7423.8	6996.3	6879.7	6707.5
7.5°	7754.2	8281.7	8456.6	8431.6	8054.0	7662.6	6940.7	6513.2	6310.5	6196.7
10°	7282.2	7893.0	8109.6	8154.0	7898.6	7304.4	6640.9	5955.2	5846.9	5649.8
12.5°	7012.9	7457.1	7590.4	7709.8	7620.9	7176.7	6413.2	5755.3	5605.3	5474.9
15°	6793.6	7057.3	7112.9	7248.9	7301.7	7062.9	6532.6	5971.8	5602.6	5588.7
17.5°	6996.3	6888.0	6685.3	6727.0	6893.5	7065.7	6840.8	6399.4	6041.2	5996.8
20°	7332.2	6854.7	6396.6	6499.3	6638.1	7165.6	7307.2	6996.3	6790.8	6677.0
22.5°	7718.1	6913.0	6305.0	6354.9	6618.7	7390.5	8062.4	7890.2	7507.1	7343.3
25°	8431.6	7074.0	6377.2	6410.5	6771.4	7704.2	8745.3	8873.0	8645.4	8612.1
27.5°	9128.5	7490.4	6535.4	6460.4	6849.1	8009.6	9159.0	9844.7	9445.0	9367.2
30°	9483.8	7829.2	6771.4	6643.7	7171.2	8195.6	9408.9	10477.7	10127.9	10091.8
32.5°	10028.0	8137.3	6954.6	6790.8	7351.6	8426.1	9875.3	11169.0	10830.3	10649.9
35°	10255.6	8473.3	7357.2	7165.6	7868.0	8748.1	10114.0	11785.4	11679.9	11505.0
37.5°	10694.3	8834.2	7831.9	7820.8	8492.7	9167.3	10544.4	12623.8	12604.4	12301.8
40°	10730.4	9228.4	8581.5	8931.3	9458.8	9897.5	10922.0	12857.0	13173.5	12968.1
42.5°	10785.9	9919.7	9878.1	10166.8	10619.3	10524.9	10935.8	12912.6	13395.6	13273.5
45°	10810.9	10611.0	11196.8	11729.9	11918.6	11346.7	10805.3	12807.1	13512.2	13206.8
47.5°	10611.0	11205.1	12262.9	13292.9	13348.4	11852.0	10749.8	12698.8	13581.6	13379.0
50°	10638.8	11577.2	13184.6	14106.4	13903.7	12299.0	10663.8	12632.2	13545.6	13409.5
52°	10572.1	11585.5	13315.1	14089.7	13948.1	12051.9	10516.6	12376.7	13512.2	13609.4
52.5°	10647.1	11535.5	13179.1	14100.8	13917.6	12174.1	10497.2	12518.3	13531.7	13334.6
55°	10388.9	10941.4	12382.3	12773.7	12746.0	11049.7	9900.3	12049.1	13023.6	13026.4
57.5°	9389.4	9483.8	9711.5	9703.2	9575.4	8687.0	8467.7	11080.2	11610.5	11321.7
60°	8273.4	6943.5	6330.0	6080.1	5938.5	5794.1	7490.4	10136.3	10186.2	10064.1
62.5°	7149.0	4814.1	3997.9	3928.5	3961.8	4489.3	7240.6	9761.5	9461.6	9197.9
65°	5769.1	3509.2	2904.0	2812.4	3137.2	3706.4	5860.8	7484.9	7024.0	6804.7
67.5°	3623.1	2559.7	1962.8	1790.7	2182.2	2551.4	3850.7	4703.0	4186.7	3884.0
70°	2148.9	1429.8	888.4	796.8	896.7	1360.4	2157.2	2346.0	1940.6	1785.2
72.5°	846.8	524.7	247.1	211.0	219.3	477.5	794.0	774.6	585.8	521.9
75°	227.7	158.2	86.1	69.4	58.3	88.8	127.7	83.3	30.5	38.9
77.5°	105.5	94.4	75.0	58.3	44.4	33.3	16.7	5.6	5.6	2.8
80°	91.6	80.5	69.4	58.3	44.4	27.8	13.9	2.8	2.8	2.8
82.5°	86.1	75.0	63.9	52.7	41.6	27.8	13.9	2.8	0.0	0.0
85°	36.1	47.2	52.7	50.0	44.4	27.8	13.9	2.8	0.0	0.0
87.5°	19.4	16.7	13.9	11.1	8.3	5.6	5.6	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)