

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: P533957

Luminaire Tested: **GALN-SA9B-830-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533957
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-SA9B-830-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 22662 lumens
Efficiency: N/A
Efficacy: 62.3 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): 364
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



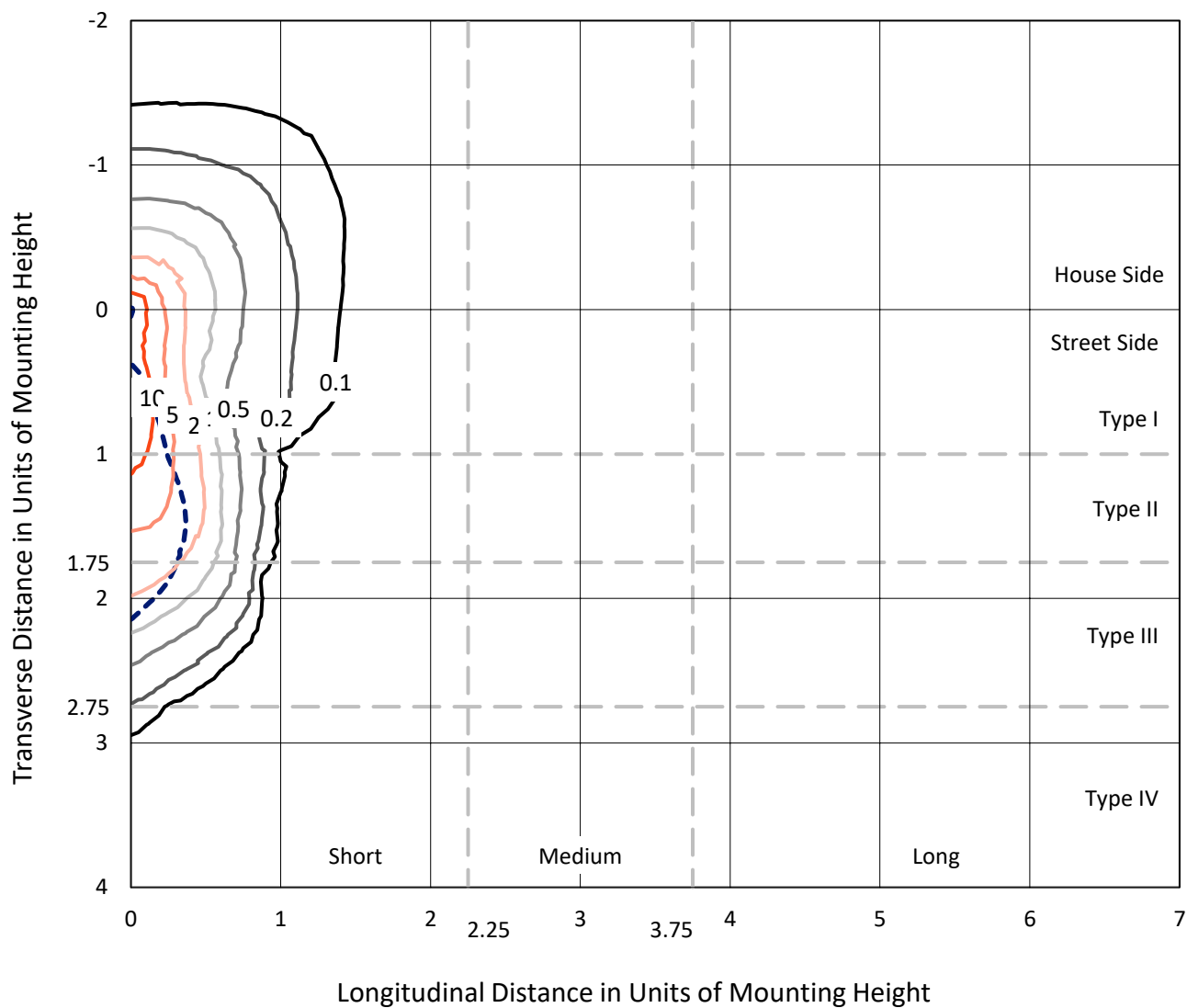
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



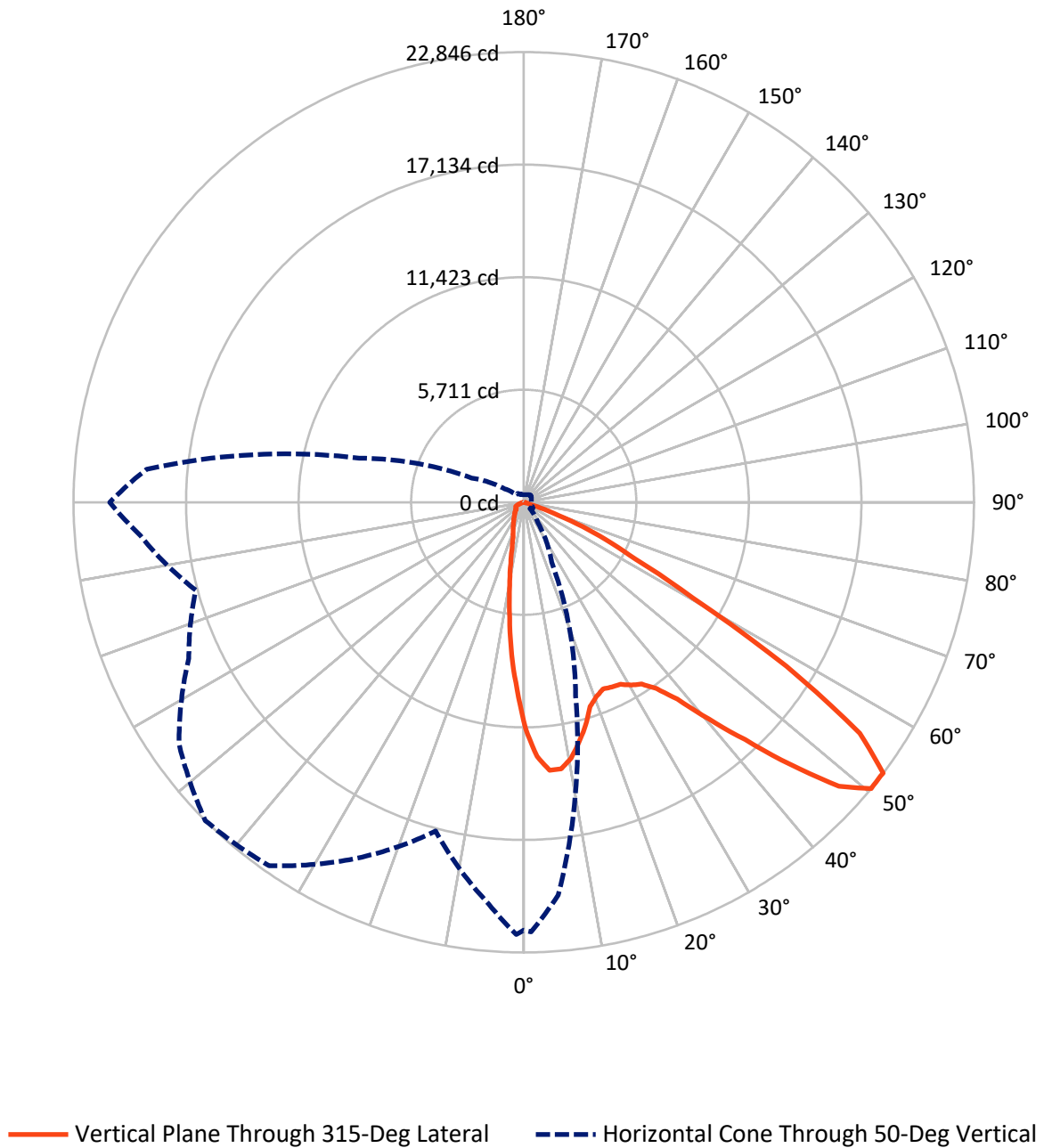
Based on 25 foot mounting height. Maximum calculated value = 18.4 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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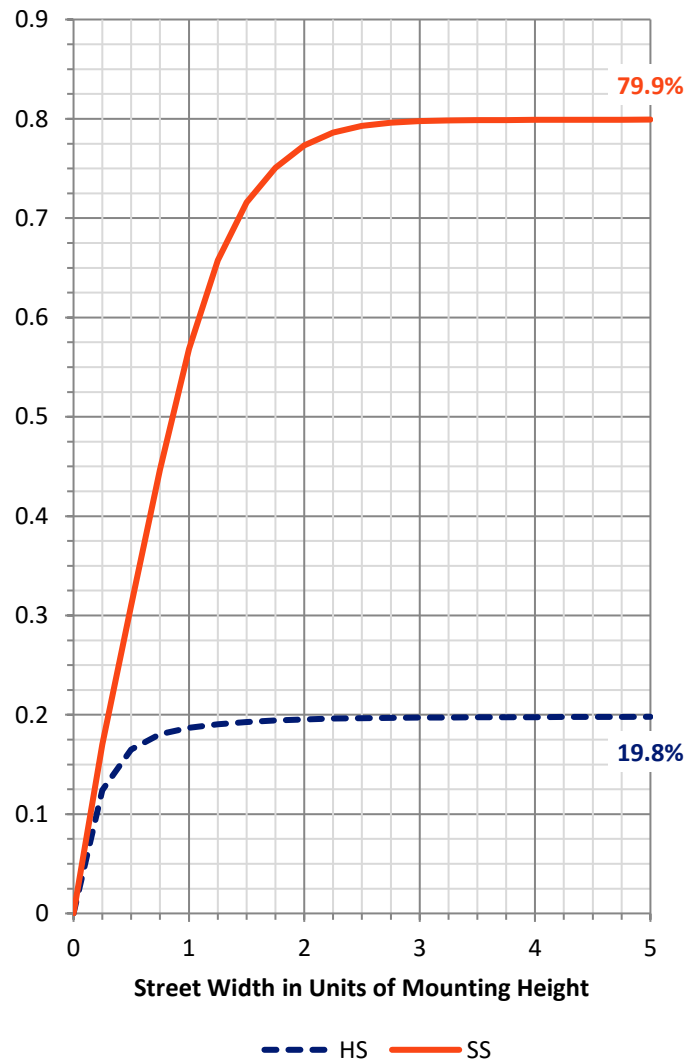
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4539.2	0.0	4539.2
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	18122.8	0.0	18122.8
	% Fixture	80.0	0.0	80.0
Total	Lumens	22662.0	0.0	22662.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	837.7	3.7
10°-20°	1664.9	7.3
20°-30°	2501.1	11.0
30°-40°	3754.1	16.6
40°-50°	5276.1	23.3
50°-60°	5691.2	25.1
60°-70°	2642.4	11.7
70°-80°	248.6	1.1
80°-90°	45.8	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°	22662.0	100.0
0°-180°	22662.0	100.0

Coefficient of Utilization



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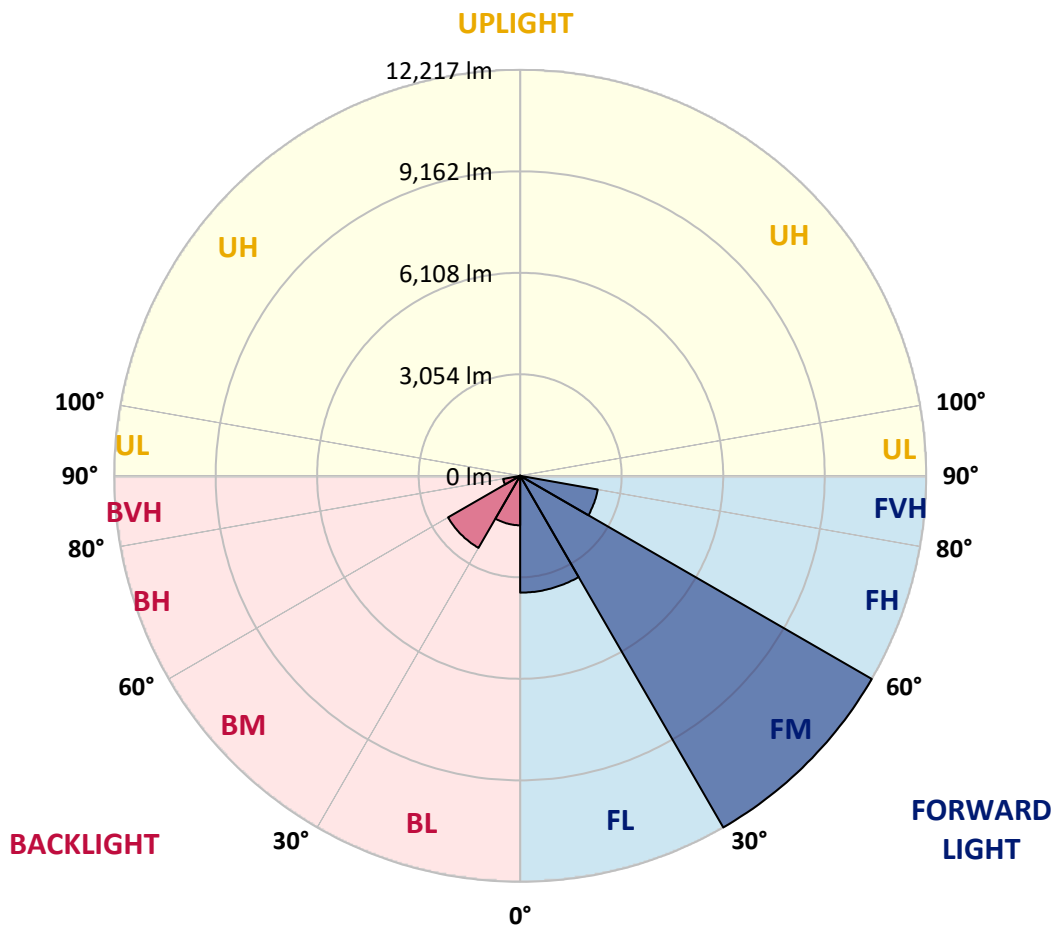
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3515.8	15.5			
FM	(30°-60°)	12216.5	53.9			
FH	(60°-80°)	2369.8	10.5			G2/5000
FVH	(80°-90°)	20.6	0.1			G1/100
BL	(0°-30°)	1487.8	6.6	B3/2500		
BM	(30°-60°)	2505.0	11.1	B3/5000		
BH	(60°-80°)	521.2	2.3	B2/1000		G2/1000
BVH	(80°-90°)	25.2	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°	11492.5	11492.5	11492.5	11492.5	11492.5	11492.5	11492.5	11492.5	11492.5	11492.5	11492.5
2.5°	11946.6	11762.3	11528.5	11335.1	11047.4	10467.3	10310.0	10121.1	9963.8	9752.4	9455.7
5°	10863.0	10804.6	10696.6	9968.3	9442.2	8740.8	8165.2	7922.4	7603.2	7342.4	7153.6
7.5°	10035.7	9801.9	9460.2	8727.3	7886.5	7135.6	6497.1	6123.9	5701.3	5557.4	5301.1
10°	9149.9	9203.9	8700.3	7670.7	6654.5	6047.5	5651.8	5292.1	4909.9	4658.1	4293.9
12.5°	8866.7	8691.3	8304.6	7032.2	6164.4	5597.9	5116.8	4671.6	4267.0	3862.3	3511.6
15°	9051.0	8781.2	8241.7	6897.3	5786.7	5080.8	4478.3	3875.8	3502.6	2985.5	2621.3
17.5°	9712.0	9496.1	8772.2	7041.2	5593.4	4586.2	3691.4	3071.0	2499.9	2032.3	1848.0
20°	10813.6	10507.8	9599.6	7225.5	5305.6	3988.2	2994.5	2230.2	1690.6	1492.8	1389.4
22.5°	11892.7	11726.3	10579.7	7580.7	5049.3	3457.6	2248.1	1501.8	1263.5	1227.5	1160.0
25°	13947.5	13448.4	12077.0	8223.7	4851.5	2958.6	1695.1	1209.5	1070.1	1043.1	1052.1
27.5°	15170.4	14752.3	13461.9	8650.8	4631.2	2576.4	1434.3	1110.6	1016.2	957.7	935.2
30°	16344.0	15858.4	14149.8	8902.6	4159.1	2171.7	1272.4	1065.6	1043.1	957.7	930.7
32.5°	17247.7	16771.1	15143.5	9280.3	3965.7	1910.9	1047.6	831.8	773.4	764.4	845.3
35°	18632.6	18124.5	15993.3	9487.1	3817.3	1776.0	908.2	741.9	674.4	647.5	652.0
37.5°	19923.0	19576.8	16780.1	9568.1	3660.0	1735.6	813.8	665.4	607.0	589.0	584.5
40°	21002.1	20228.8	17526.5	9653.5	3592.5	1659.1	755.4	607.0	566.5	539.6	539.6
42.5°	21496.7	20709.9	18362.8	9604.1	3574.5	1537.7	755.4	557.5	526.1	499.1	494.6
45°	21388.8	21069.6	18736.0	9581.6	3574.5	1416.3	687.9	544.0	499.1	463.1	454.1
47.5°	21667.6	21249.4	19203.6	9676.0	3502.6	1330.9	580.0	571.0	472.1	427.1	418.2
50°	21717.0	21798.0	20017.4	10166.1	3345.2	1223.0	454.1	562.0	454.1	386.7	377.7
52°	22040.8	21537.2	20264.7	10426.9	3178.9	1142.1	382.2	481.1	436.1	359.7	350.7
52.5°	21595.6	21923.9	20323.2	10521.3	3196.9	1088.1	368.7	472.1	427.1	359.7	337.2
55°	21096.5	21411.3	20084.9	10723.6	2931.6	854.3	287.8	341.7	386.7	314.7	301.3
57.5°	18335.8	18655.1	17454.6	9819.9	2387.5	602.5	238.3	256.3	341.7	292.3	278.8
60°	16299.0	16069.7	14648.9	8192.2	1695.1	337.2	188.8	197.8	373.2	269.8	265.3
62.5°	14896.2	14406.1	12243.4	6326.3	1034.1	224.8	148.4	152.9	287.8	251.8	251.8
65°	11020.4	10471.8	8133.8	3826.3	508.1	157.4	112.4	121.4	179.9	215.8	215.8
67.5°	6290.3	6079.0	3929.7	1726.6	211.3	98.9	85.4	94.4	139.4	175.4	166.4
70°	2891.1	2594.4	1510.7	364.2	98.9	67.4	67.4	76.4	112.4	130.4	121.4
72.5°	845.3	800.3	368.7	58.5	40.5	40.5	45.0	58.5	85.4	98.9	89.9
75°	62.9	40.5	27.0	18.0	18.0	27.0	36.0	58.5	85.4	94.4	76.4
77.5°	4.5	9.0	4.5	4.5	13.5	27.0	40.5	71.9	112.4	116.9	85.4
80°	4.5	4.5	0.0	4.5	13.5	27.0	45.0	80.9	125.9	134.9	71.9
82.5°	0.0	0.0	0.0	4.5	18.0	36.0	54.0	85.4	116.9	143.9	76.4
85°	0.0	0.0	0.0	4.5	27.0	49.5	62.9	22.5	13.5	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°	11492.5	11492.5	11492.5	11492.5	11492.5	11492.5	11492.5	11492.5	11492.5	11492.5	11492.5
2.5°	9667.0	9550.1	9505.1	9545.6	9532.1	9518.6	9765.9	9712.0	9703.0	9783.9	9765.9
5°	7257.0	7050.2	7616.7	7387.4	7625.7	7769.6	7796.5	7810.0	7976.4	7801.0	8030.4
7.5°	5170.7	5224.7	5220.2	5373.1	5647.3	5890.1	6034.0	5921.6	5912.6	5890.1	5791.2
10°	4132.1	4037.7	4019.7	3983.7	4069.1	4276.0	4451.3	4311.9	4213.0	4347.9	4307.4
12.5°	3376.7	3246.3	3174.4	3030.5	3035.0	3174.4	3174.4	3174.4	3273.3	3349.7	3408.2
15°	2589.9	2481.9	2481.9	2338.1	2306.6	2311.1	2383.0	2392.0	2549.4	2594.4	2616.8
17.5°	1812.0	1753.5	1821.0	1879.4	1843.5	1852.5	1879.4	1888.4	1910.9	1892.9	1937.9
20°	1393.8	1384.9	1402.8	1506.3	1582.7	1627.7	1596.2	1551.2	1524.2	1461.3	1461.3
22.5°	1182.5	1200.5	1232.0	1317.4	1416.3	1443.3	1407.3	1303.9	1223.0	1214.0	1218.5
25°	1052.1	1070.1	1119.6	1173.5	1227.5	1272.4	1236.5	1160.0	1115.1	1074.6	1074.6
27.5°	971.2	980.2	1007.2	1047.6	1092.6	1128.6	1115.1	1074.6	1025.2	1007.2	966.7
30°	908.2	921.7	953.2	962.2	1002.7	1020.7	998.2	989.2	957.7	935.2	921.7
32.5°	876.8	872.3	894.8	903.8	908.2	921.7	894.8	908.2	903.8	867.8	854.3
35°	661.0	696.9	755.4	804.8	818.3	836.3	831.8	813.8	764.4	723.9	674.4
37.5°	593.5	616.0	647.5	687.9	741.9	764.4	755.4	710.4	652.0	625.0	616.0
40°	548.5	562.0	589.0	616.0	669.9	710.4	678.9	638.5	593.5	571.0	557.5
42.5°	508.1	512.6	526.1	553.0	593.5	656.5	602.5	548.5	530.6	517.1	508.1
45°	463.1	463.1	481.1	494.6	539.6	598.0	544.0	494.6	485.6	476.6	472.1
47.5°	427.1	431.6	440.6	458.6	494.6	535.1	499.1	458.6	436.1	431.6	422.7
50°	382.2	386.7	404.7	422.7	467.6	490.1	467.6	422.7	400.2	386.7	386.7
52°	346.2	359.7	377.7	413.7	445.1	481.1	454.1	404.7	377.7	364.2	355.2
52.5°	341.7	350.7	368.7	409.2	445.1	476.6	449.6	400.2	368.7	359.7	350.7
55°	305.7	319.2	350.7	400.2	440.6	476.6	440.6	395.7	350.7	328.2	319.2
57.5°	292.3	301.3	341.7	404.7	436.1	476.6	440.6	395.7	350.7	310.2	301.3
60°	278.8	296.8	341.7	391.2	431.6	481.1	445.1	391.2	341.7	292.3	292.3
62.5°	265.3	278.8	337.2	382.2	413.7	463.1	427.1	382.2	328.2	278.8	274.3
65°	229.3	251.8	296.8	319.2	355.2	400.2	364.2	332.7	287.8	247.3	242.8
67.5°	175.4	184.3	220.3	247.3	269.8	310.2	292.3	251.8	220.3	188.8	188.8
70°	121.4	130.4	157.4	170.9	193.3	215.8	202.3	170.9	148.4	130.4	125.9
72.5°	85.4	89.9	98.9	107.9	116.9	125.9	121.4	98.9	85.4	80.9	76.4
75°	67.4	76.4	80.9	76.4	71.9	67.4	67.4	58.5	49.5	45.0	45.0
77.5°	67.4	71.9	67.4	58.5	49.5	45.0	40.5	36.0	27.0	22.5	27.0
80°	58.5	58.5	58.5	49.5	45.0	40.5	36.0	31.5	27.0	22.5	22.5
82.5°	62.9	62.9	58.5	49.5	49.5	40.5	40.5	36.0	31.5	22.5	22.5
85°	0.0	0.0	0.0	9.0	22.5	40.5	40.5	36.0	31.5	27.0	27.0
87.5°	0.0	0.0	0.0	0.0	4.5	9.0	18.0	22.5	27.0	27.0	27.0
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°	11492.5	11492.5	11492.5	11492.5	11492.5	11492.5	11492.5	11492.5	11492.5	11492.5	11492.5
2.5°	9927.8	10098.6	10422.4	10746.1	10943.9	11177.8	11600.4	11825.2	12117.5	12261.4	12544.6
5°	7998.9	8403.5	8547.4	8916.1	9311.8	9707.5	10336.9	11029.4	11604.9	12000.6	12513.1
7.5°	5836.2	5930.6	6488.1	6735.4	7382.9	8102.3	8961.1	9833.4	10561.8	11209.2	11600.4
10°	4374.9	4721.1	5071.8	5543.9	6065.5	6807.4	7630.2	8592.4	9536.6	10184.1	10678.7
12.5°	3516.1	3790.4	4258.0	4766.1	5409.0	5899.1	6726.4	7679.6	8902.6	9536.6	10188.6
15°	2661.8	3012.5	3543.1	4069.1	4748.1	5265.1	6101.5	7302.0	8875.7	9747.9	10310.0
17.5°	1973.9	2212.2	2688.8	3277.8	3970.2	4698.6	5827.2	7261.5	9176.9	10215.5	10795.6
20°	1510.7	1591.7	1892.9	2419.0	3169.9	4123.1	5382.0	7436.8	10067.2	11353.1	11942.1
22.5°	1223.0	1259.0	1375.9	1740.1	2468.5	3619.5	5170.7	7558.2	11069.8	12715.5	13502.3
25°	1065.6	1056.6	1133.1	1290.4	1928.9	3147.4	4900.9	8016.9	12297.3	14316.2	15022.1
27.5°	971.2	971.2	1007.2	1119.6	1600.7	2841.6	4730.1	8345.1	13533.8	15723.5	16105.7
30°	921.7	930.7	1034.1	1070.1	1330.9	2477.5	4446.8	8677.8	14716.3	16622.7	17148.8
32.5°	854.3	818.3	795.8	885.8	1119.6	2149.2	4163.6	8817.2	15674.0	17724.3	18174.0
35°	656.5	638.5	665.4	732.9	962.2	1870.5	3848.8	8974.6	16775.6	19001.3	19091.2
37.5°	593.5	589.0	607.0	665.4	809.3	1627.7	3624.0	8934.1	17616.4	20057.9	19815.1
40°	548.5	548.5	562.0	611.5	723.9	1456.8	3390.2	8898.1	18430.3	21244.9	20534.5
42.5°	512.6	512.6	535.1	566.5	687.9	1344.4	3214.8	8848.7	19113.7	21973.3	20957.2
45°	463.1	476.6	512.6	544.0	696.9	1268.0	3084.4	8659.8	19347.5	21964.3	20754.8
47.5°	427.1	445.1	481.1	526.1	629.5	1245.5	2994.5	8493.5	19266.6	21424.8	20120.9
50°	386.7	409.2	458.6	535.1	535.1	1200.5	2900.1	8641.8	19208.1	21006.6	19513.9
52°	359.7	377.7	440.6	521.6	467.6	1106.1	2841.6	8929.6	19446.4	20952.7	19244.1
52.5°	355.2	368.7	427.1	512.6	445.1	1088.1	2801.2	8997.1	19522.8	20817.8	19428.4
55°	314.7	332.7	391.2	400.2	364.2	894.8	2670.8	9149.9	19145.2	20552.5	19253.1
57.5°	296.8	305.7	346.2	328.2	314.7	674.4	2297.6	8911.6	17004.9	18254.9	17913.2
60°	274.3	283.3	323.7	256.3	265.3	472.1	1726.6	7738.1	13655.2	15210.9	15826.9
62.5°	265.3	260.8	305.7	206.8	224.8	341.7	1218.5	6290.3	10521.3	12522.1	13587.8
65°	233.8	229.3	220.3	175.4	193.3	265.3	728.4	4105.1	7414.4	9473.7	10058.2
67.5°	179.9	188.8	161.9	139.4	161.9	206.8	404.7	1839.0	3889.3	5683.3	6155.4
70°	125.9	134.9	130.4	121.4	143.9	170.9	233.8	629.5	1609.7	2985.5	3291.3
72.5°	76.4	94.4	98.9	103.4	125.9	148.4	166.4	202.3	427.1	1056.6	1312.9
75°	45.0	62.9	76.4	89.9	103.4	125.9	139.4	143.9	148.4	197.8	319.2
77.5°	31.5	45.0	67.4	85.4	103.4	125.9	148.4	157.4	148.4	139.4	148.4
80°	27.0	45.0	62.9	80.9	107.9	130.4	148.4	148.4	143.9	125.9	134.9
82.5°	27.0	45.0	67.4	85.4	103.4	125.9	143.9	148.4	134.9	125.9	130.4
85°	31.5	49.5	71.9	89.9	112.4	103.4	94.4	76.4	71.9	58.5	62.9
87.5°	31.5	45.0	45.0	49.5	54.0	54.0	54.0	49.5	40.5	36.0	36.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11492.5	11492.5	11492.5	11492.5	11492.5	11492.5	11492.5	11492.5	11492.5	11492.5
2.5°	12558.1	12917.8	12904.3	12913.3	12859.4	12495.2	12319.8	11874.7	12000.6	11946.6
5°	13039.2	13394.4	13700.2	13664.2	13250.5	12755.9	12023.1	11330.6	11141.8	10863.0
7.5°	12558.1	13412.4	13695.7	13655.2	13043.7	12409.7	11240.7	10548.3	10220.0	10035.7
10°	11793.7	12782.9	13133.6	13205.6	12791.9	11829.7	10755.1	9644.5	9469.2	9149.9
12.5°	11357.6	12077.0	12292.8	12486.2	12342.3	11622.9	10386.4	9320.8	9078.0	8866.7
15°	11002.4	11429.5	11519.5	11739.8	11825.2	11438.5	10579.7	9671.5	9073.5	9051.0
17.5°	11330.6	11155.3	10827.0	10894.5	11164.3	11443.0	11078.8	10363.9	9783.9	9712.0
20°	11874.7	11101.3	10359.4	10525.8	10750.6	11604.9	11834.2	11330.6	10997.9	10813.6
22.5°	12499.7	11195.7	10211.1	10292.0	10719.1	11969.1	13057.2	12778.4	12157.9	11892.7
25°	13655.2	11456.5	10328.0	10381.9	10966.4	12477.2	14163.3	14370.1	14001.4	13947.5
27.5°	14783.8	12131.0	10584.2	10462.8	11092.3	12971.8	14833.2	15943.8	15296.3	15170.4
30°	15359.3	12679.5	10966.4	10759.6	11613.9	13273.0	15237.9	16969.0	16402.4	16344.0
32.5°	16240.6	13178.6	11263.2	10997.9	11906.1	13646.2	15993.3	18088.5	17540.0	17247.7
35°	16609.3	13722.6	11915.1	11604.9	12742.5	14167.8	16379.9	19086.7	18915.8	18632.6
37.5°	17319.7	14307.2	12684.0	12666.0	13754.1	14846.7	17076.9	20444.6	20413.1	19923.0
40°	17378.1	14945.6	13898.0	14464.5	15318.8	16029.2	17688.4	20822.3	21334.8	21002.1
42.5°	17468.0	16065.2	15997.8	16465.4	17198.3	17045.4	17710.8	20912.2	21694.5	21496.7
45°	17508.5	17184.8	18133.5	18996.8	19302.5	18376.3	17499.5	20741.3	21883.4	21388.8
47.5°	17184.8	18147.0	19860.1	21528.2	21618.1	19194.6	17409.6	20566.0	21995.8	21667.6
50°	17229.7	18749.5	21352.8	22845.6	22517.4	19918.5	17270.2	20458.1	21937.3	21717.0
52°	17121.8	18763.0	21564.2	22818.6	22589.3	19518.3	17031.9	20044.4	21883.4	22040.8
52.5°	17243.2	18682.0	21343.8	22836.6	22539.8	19716.2	17000.4	20273.7	21914.9	21595.6
55°	16825.1	17719.8	20053.4	20687.4	20642.4	17895.2	16033.7	19513.9	21092.0	21096.5
57.5°	15206.4	15359.3	15728.0	15714.5	15507.7	14068.9	13713.7	17944.7	18803.4	18335.8
60°	13398.9	11245.2	10251.5	9846.9	9617.5	9383.7	12131.0	16415.9	16496.8	16299.0
62.5°	11577.9	7796.5	6474.6	6362.2	6416.2	7270.5	11726.3	15808.9	15323.3	14896.2
65°	9343.3	5683.3	4703.1	4554.7	5080.8	6002.5	9491.6	12122.0	11375.6	11020.4
67.5°	5867.6	4145.6	3178.9	2900.1	3534.1	4132.1	6236.3	7616.7	6780.4	6290.3
70°	3480.1	2315.6	1438.8	1290.4	1452.3	2203.2	3493.6	3799.4	3142.9	2891.1
72.5°	1371.4	849.8	400.2	341.7	355.2	773.4	1285.9	1254.5	948.7	845.3
75°	368.7	256.3	139.4	112.4	94.4	143.9	206.8	134.9	49.5	62.9
77.5°	170.9	152.9	121.4	94.4	71.9	54.0	27.0	9.0	9.0	4.5
80°	148.4	130.4	112.4	94.4	71.9	45.0	22.5	4.5	4.5	4.5
82.5°	139.4	121.4	103.4	85.4	67.4	45.0	22.5	4.5	0.0	0.0
85°	58.5	76.4	85.4	80.9	71.9	45.0	22.5	4.5	0.0	0.0
87.5°	31.5	27.0	22.5	18.0	13.5	9.0	9.0	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

(END OF REPORT)