

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: P529277

Luminaire Tested: **GALN-SA4B-830-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529277
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-SA4B-830-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 9889 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 164
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



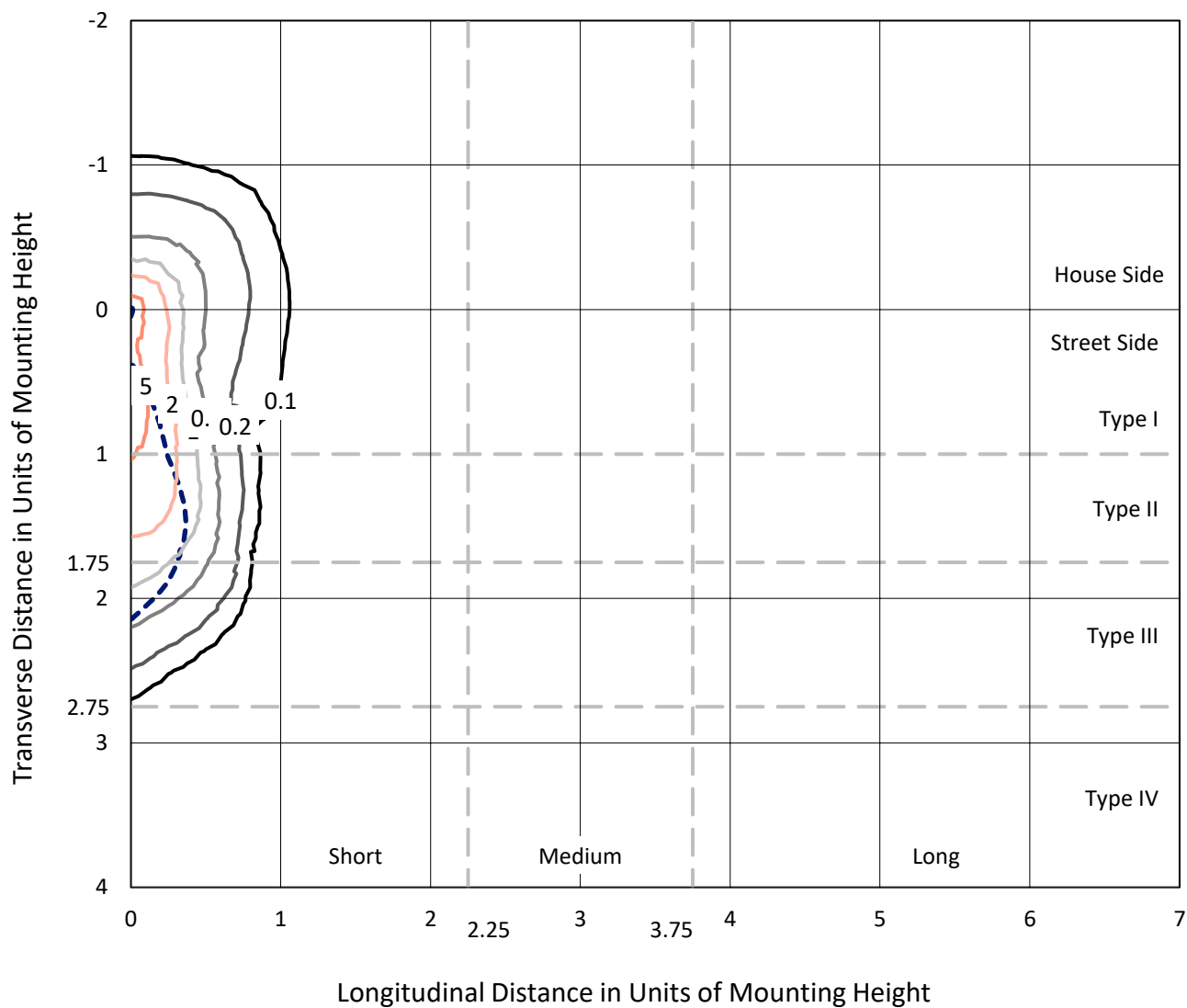
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



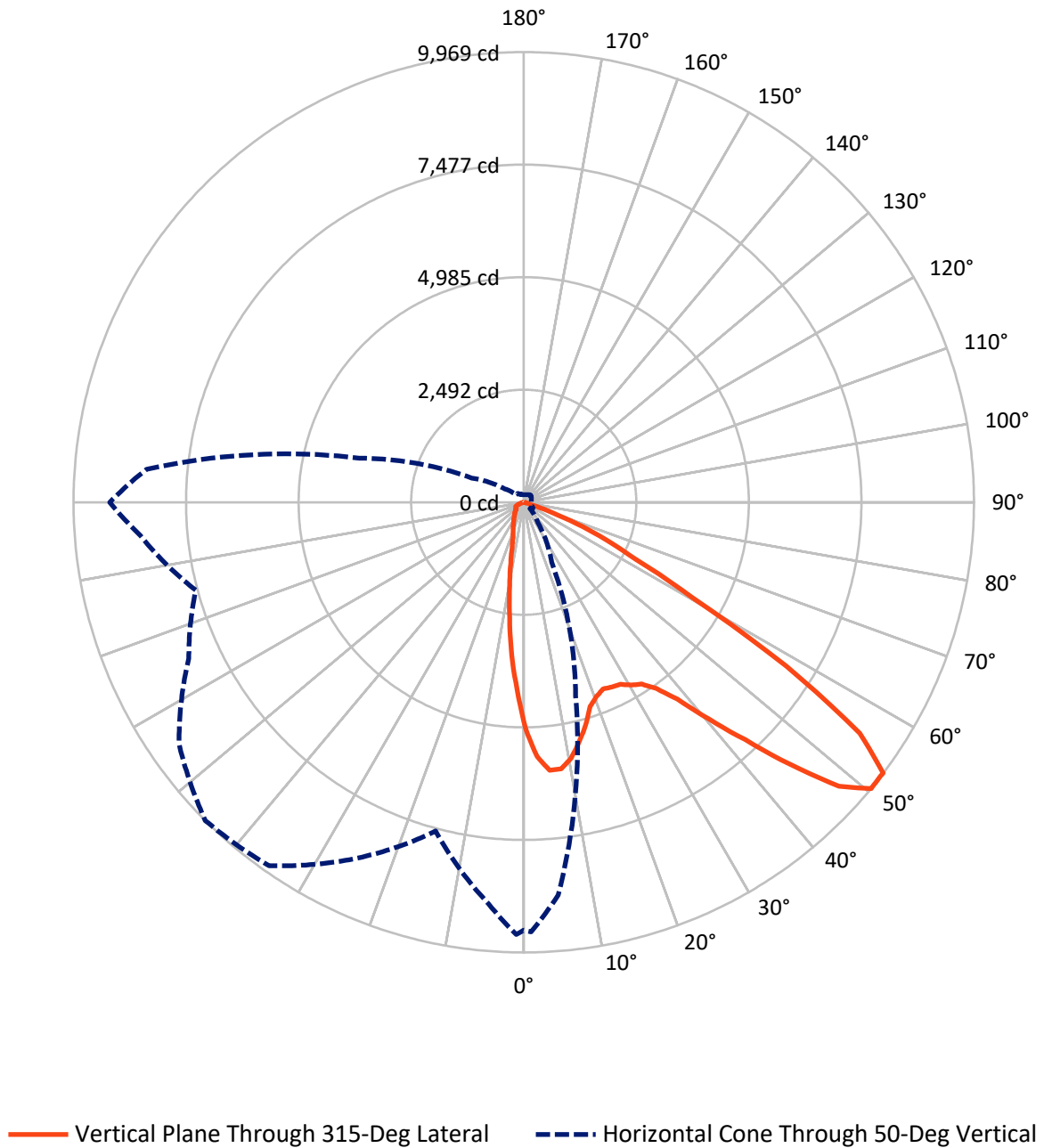
Based on 25 foot mounting height. Maximum calculated value = 8 fc

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	1980.8	0.0	1980.8
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	7908.2	0.0	7908.2
	% Fixture	80.0	0.0	80.0
Total	Lumens	9889.0	0.0	9889.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.5	3.7
10°-20°	726.5	7.3
20°-30°	1091.4	11.0
30°-40°	1638.2	16.6
40°-50°	2302.3	23.3
50°-60°	2483.5	25.1
60°-70°	1153.1	11.7
70°-80°	108.5	1.1
80°-90°	20.0	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°	9889.0	100.0
0°-180°	9889.0	100.0

Coefficient of Utilization



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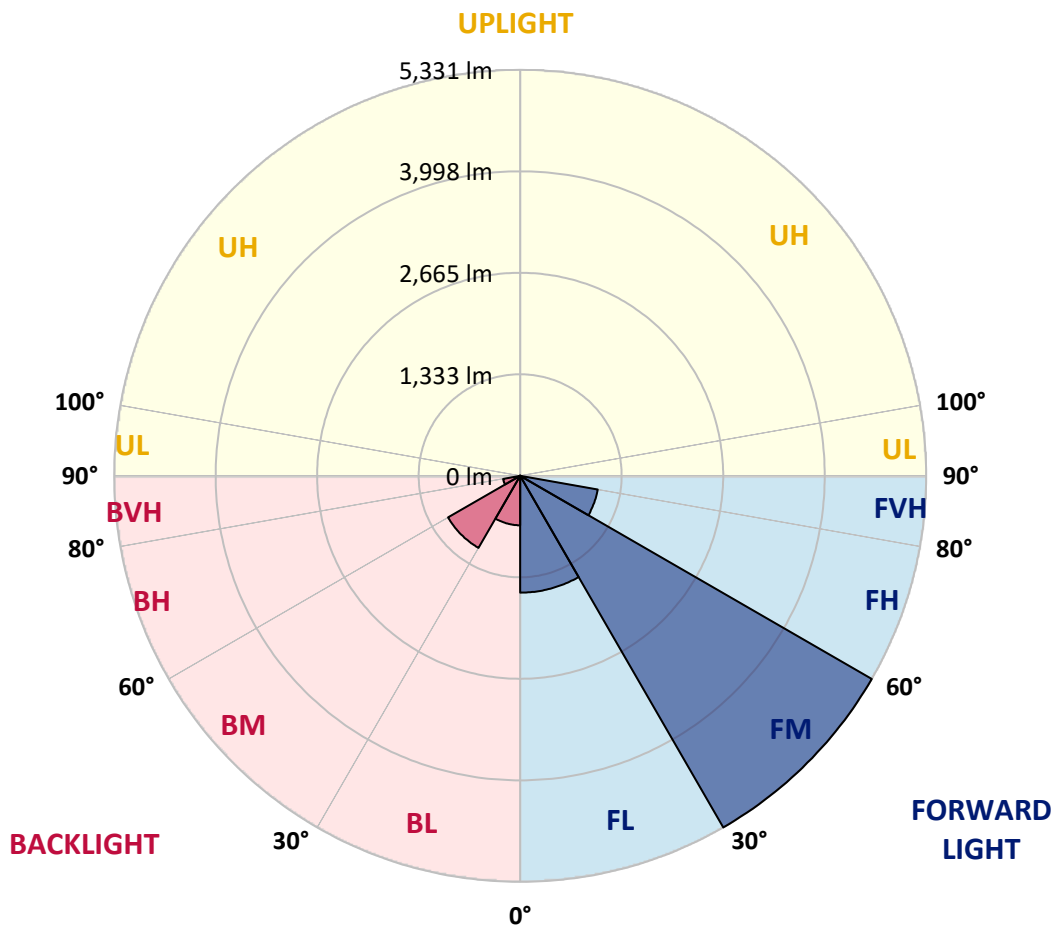
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1534.2	15.5			
FM	(30°-60°)	5330.9	53.9			
FH	(60°-80°)	1034.1	10.5			G1/1800
FVH	(80°-90°)	9.0	0.1			G0/10
BL	(0°-30°)	649.2	6.6	B2/1000		
BM	(30°-60°)	1093.1	11.1	B2/2500		
BH	(60°-80°)	227.4	2.3	B1/500		G1/500
BVH	(80°-90°)	11.0	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°	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0
2.5°	5213.1	5132.7	5030.7	4946.3	4820.7	4567.6	4499.0	4416.5	4347.9	4255.7	4126.2
5°	4740.3	4714.8	4667.7	4349.8	4120.3	3814.2	3563.1	3457.1	3317.8	3204.0	3121.6
7.5°	4379.3	4277.2	4128.1	3808.3	3441.4	3113.8	2835.1	2672.3	2487.9	2425.1	2313.2
10°	3992.7	4016.3	3796.5	3347.2	2903.8	2638.9	2466.3	2309.3	2142.5	2032.7	1873.7
12.5°	3869.1	3792.6	3623.9	3068.6	2690.0	2442.7	2232.8	2038.6	1862.0	1685.4	1532.4
15°	3949.6	3831.9	3596.4	3009.8	2525.1	2217.1	1954.2	1691.3	1528.4	1302.8	1143.9
17.5°	4238.0	4143.8	3827.9	3072.6	2440.8	2001.3	1610.8	1340.1	1090.9	886.8	806.4
20°	4718.7	4585.3	4189.0	3153.0	2315.2	1740.3	1306.7	973.2	737.7	651.4	606.3
22.5°	5189.6	5117.0	4616.7	3308.0	2203.4	1508.8	981.0	655.3	551.3	535.6	506.2
25°	6086.2	5868.5	5270.0	3588.6	2117.0	1291.0	739.7	527.8	467.0	455.2	459.1
27.5°	6619.9	6437.4	5874.3	3775.0	2020.9	1124.2	625.9	484.6	443.4	417.9	408.1
30°	7132.0	6920.1	6174.5	3884.8	1814.9	947.7	555.3	465.0	455.2	417.9	406.1
32.5°	7526.4	7318.4	6608.1	4049.6	1730.5	833.9	457.2	363.0	337.5	333.5	368.9
35°	8130.7	7909.0	6979.0	4139.9	1665.8	775.0	396.3	323.7	294.3	282.5	284.5
37.5°	8693.8	8542.7	7322.3	4175.2	1597.1	757.3	355.1	290.4	264.9	257.0	255.1
40°	9164.7	8827.2	7648.0	4212.5	1567.7	724.0	329.6	264.9	247.2	235.4	235.4
42.5°	9380.5	9037.1	8013.0	4190.9	1559.8	671.0	329.6	243.3	229.6	217.8	215.8
45°	9333.4	9194.1	8175.8	4181.1	1559.8	618.0	300.2	237.4	217.8	202.1	198.2
47.5°	9455.1	9272.6	8379.9	4222.3	1528.4	580.8	253.1	249.2	206.0	186.4	182.5
50°	9476.6	9512.0	8735.0	4436.2	1459.8	533.7	198.2	245.3	198.2	168.7	164.8
52°	9617.9	9398.2	8842.9	4550.0	1387.2	498.4	166.8	209.9	190.3	157.0	153.0
52.5°	9423.7	9566.9	8868.4	4591.2	1395.0	474.8	160.9	206.0	186.4	157.0	147.2
55°	9205.9	9343.2	8764.4	4679.5	1279.2	372.8	125.6	149.1	168.7	137.3	131.5
57.5°	8001.2	8140.5	7616.6	4285.1	1041.8	262.9	104.0	111.8	149.1	127.5	121.6
60°	7112.4	7012.3	6392.3	3574.8	739.7	147.2	82.4	86.3	162.8	117.7	115.8
62.5°	6500.2	6286.4	5342.6	2760.6	451.3	98.1	64.7	66.7	125.6	109.9	109.9
65°	4809.0	4569.6	3549.3	1669.7	221.7	68.7	49.1	53.0	78.5	94.2	94.2
67.5°	2744.9	2652.7	1714.8	753.4	92.2	43.2	37.3	41.2	60.8	76.5	72.6
70°	1261.6	1132.1	659.2	158.9	43.2	29.4	29.4	33.4	49.1	56.9	53.0
72.5°	368.9	349.2	160.9	25.5	17.7	17.7	19.6	25.5	37.3	43.2	39.2
75°	27.5	17.7	11.8	7.8	7.8	11.8	15.7	25.5	37.3	41.2	33.4
77.5°	2.0	3.9	2.0	2.0	5.9	11.8	17.7	31.4	49.1	51.0	37.3
80°	2.0	2.0	0.0	2.0	5.9	11.8	19.6	35.3	54.9	58.9	31.4
82.5°	0.0	0.0	0.0	2.0	7.8	15.7	23.5	37.3	51.0	62.8	33.4
85°	0.0	0.0	0.0	2.0	11.8	21.6	27.5	9.8	5.9	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°	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0
2.5°	4218.4	4167.4	4147.7	4165.4	4159.5	4153.6	4261.5	4238.0	4234.1	4269.4	4261.5
5°	3166.7	3076.5	3323.7	3223.6	3327.6	3390.4	3402.2	3408.1	3480.7	3404.1	3504.2
7.5°	2256.3	2279.9	2277.9	2344.6	2464.3	2570.3	2633.1	2584.0	2580.1	2570.3	2527.1
10°	1803.1	1761.9	1754.1	1738.4	1775.6	1865.9	1942.4	1881.6	1838.4	1897.3	1879.6
12.5°	1473.5	1416.6	1385.2	1322.4	1324.4	1385.2	1385.2	1385.2	1428.4	1461.7	1487.2
15°	1130.1	1083.0	1083.0	1020.3	1006.5	1008.5	1039.9	1043.8	1112.5	1132.1	1141.9
17.5°	790.7	765.2	794.6	820.1	804.4	808.4	820.1	824.1	833.9	826.0	845.6
20°	608.2	604.3	612.2	657.3	690.6	710.3	696.5	676.9	665.1	637.7	637.7
22.5°	516.0	523.9	537.6	574.9	618.0	629.8	614.1	569.0	533.7	529.8	531.7
25°	459.1	467.0	488.5	512.1	535.6	555.3	539.6	506.2	486.6	468.9	468.9
27.5°	423.8	427.7	439.5	457.2	476.8	492.5	486.6	468.9	447.3	439.5	421.8
30°	396.3	402.2	416.0	419.9	437.5	445.4	435.6	431.6	417.9	408.1	402.2
32.5°	382.6	380.6	390.4	394.4	396.3	402.2	390.4	396.3	394.4	378.7	372.8
35°	288.4	304.1	329.6	351.2	357.1	364.9	363.0	355.1	333.5	315.9	294.3
37.5°	259.0	268.8	282.5	300.2	323.7	333.5	329.6	310.0	284.5	272.7	268.8
40°	239.4	245.3	257.0	268.8	292.3	310.0	296.3	278.6	259.0	249.2	243.3
42.5°	221.7	223.7	229.6	241.3	259.0	286.5	262.9	239.4	231.5	225.6	221.7
45°	202.1	202.1	209.9	215.8	235.4	261.0	237.4	215.8	211.9	208.0	206.0
47.5°	186.4	188.4	192.3	200.1	215.8	233.5	217.8	200.1	190.3	188.4	184.4
50°	166.8	168.7	176.6	184.4	204.1	213.9	204.1	184.4	174.6	168.7	168.7
52°	151.1	157.0	164.8	180.5	194.2	209.9	198.2	176.6	164.8	158.9	155.0
52.5°	149.1	153.0	160.9	178.5	194.2	208.0	196.2	174.6	160.9	157.0	153.0
55°	133.4	139.3	153.0	174.6	192.3	208.0	192.3	172.7	153.0	143.2	139.3
57.5°	127.5	131.5	149.1	176.6	190.3	208.0	192.3	172.7	153.0	135.4	131.5
60°	121.6	129.5	149.1	170.7	188.4	209.9	194.2	170.7	149.1	127.5	127.5
62.5°	115.8	121.6	147.2	166.8	180.5	202.1	186.4	166.8	143.2	121.6	119.7
65°	100.1	109.9	129.5	139.3	155.0	174.6	158.9	145.2	125.6	107.9	106.0
67.5°	76.5	80.4	96.1	107.9	117.7	135.4	127.5	109.9	96.1	82.4	82.4
70°	53.0	56.9	68.7	74.6	84.4	94.2	88.3	74.6	64.7	56.9	54.9
72.5°	37.3	39.2	43.2	47.1	51.0	54.9	53.0	43.2	37.3	35.3	33.4
75°	29.4	33.4	35.3	33.4	31.4	29.4	29.4	25.5	21.6	19.6	19.6
77.5°	29.4	31.4	29.4	25.5	21.6	19.6	17.7	15.7	11.8	9.8	11.8
80°	25.5	25.5	25.5	21.6	19.6	17.7	15.7	13.7	11.8	9.8	9.8
82.5°	27.5	27.5	25.5	21.6	21.6	17.7	17.7	15.7	13.7	9.8	9.8
85°	0.0	0.0	0.0	3.9	9.8	17.7	17.7	15.7	13.7	11.8	11.8
87.5°	0.0	0.0	0.0	0.0	2.0	3.9	7.8	9.8	11.8	11.8	11.8
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°	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0
2.5°	4332.2	4406.7	4548.0	4689.3	4775.6	4877.6	5062.1	5160.2	5287.7	5350.5	5474.1
5°	3490.5	3667.0	3729.8	3890.7	4063.4	4236.0	4510.7	4812.9	5064.0	5236.7	5460.4
7.5°	2546.7	2587.9	2831.2	2939.1	3221.7	3535.6	3910.3	4291.0	4608.8	4891.4	5062.1
10°	1909.1	2060.1	2213.2	2419.2	2646.8	2970.5	3329.6	3749.5	4161.5	4444.0	4659.8
12.5°	1534.3	1654.0	1858.1	2079.8	2360.3	2574.2	2935.2	3351.2	3884.8	4161.5	4446.0
15°	1161.5	1314.6	1546.1	1775.6	2071.9	2297.5	2662.5	3186.3	3873.1	4253.7	4499.0
17.5°	861.3	965.3	1173.3	1430.3	1732.5	2050.3	2542.8	3168.7	4004.5	4457.8	4710.9
20°	659.2	694.6	826.0	1055.6	1383.2	1799.2	2348.6	3245.2	4393.0	4954.1	5211.2
22.5°	533.7	549.4	600.4	759.3	1077.2	1579.4	2256.3	3298.2	4830.5	5548.6	5892.0
25°	465.0	461.1	494.4	563.1	841.7	1373.4	2138.6	3498.3	5366.2	6247.1	6555.2
27.5°	423.8	423.8	439.5	488.5	698.5	1240.0	2064.1	3641.5	5905.7	6861.2	7028.0
30°	402.2	406.1	451.3	467.0	580.8	1081.1	1940.5	3786.7	6421.8	7253.7	7483.2
32.5°	372.8	357.1	347.3	386.5	488.5	937.9	1816.8	3847.6	6839.7	7734.4	7930.6
35°	286.5	278.6	290.4	319.8	419.9	816.2	1679.5	3916.2	7320.4	8291.6	8330.8
37.5°	259.0	257.0	264.9	290.4	353.2	710.3	1581.4	3898.6	7687.3	8752.7	8646.7
40°	239.4	239.4	245.3	266.8	315.9	635.7	1479.4	3882.9	8042.4	9270.6	8960.6
42.5°	223.7	223.7	233.5	247.2	300.2	586.6	1402.9	3861.3	8340.6	9588.5	9145.1
45°	202.1	208.0	223.7	237.4	304.1	553.3	1346.0	3778.9	8442.7	9584.6	9056.8
47.5°	186.4	194.2	209.9	229.6	274.7	543.5	1306.7	3706.3	8407.3	9349.1	8780.1
50°	168.7	178.5	200.1	233.5	233.5	523.9	1265.5	3771.0	8381.8	9166.6	8515.2
52°	157.0	164.8	192.3	227.6	204.1	482.7	1240.0	3896.6	8485.8	9143.1	8397.5
52.5°	155.0	160.9	186.4	223.7	194.2	474.8	1222.3	3926.0	8519.2	9084.2	8478.0
55°	137.3	145.2	170.7	174.6	158.9	390.4	1165.5	3992.7	8354.4	8968.5	8401.4
57.5°	129.5	133.4	151.1	143.2	137.3	294.3	1002.6	3888.8	7420.4	7965.9	7816.8
60°	119.7	123.6	141.3	111.8	115.8	206.0	753.4	3376.7	5958.7	6637.6	6906.4
62.5°	115.8	113.8	133.4	90.3	98.1	149.1	531.7	2744.9	4591.2	5464.3	5929.3
65°	102.0	100.1	96.1	76.5	84.4	115.8	317.9	1791.3	3235.4	4134.0	4389.1
67.5°	78.5	82.4	70.6	60.8	70.6	90.3	176.6	802.5	1697.2	2480.0	2686.0
70°	54.9	58.9	56.9	53.0	62.8	74.6	102.0	274.7	702.4	1302.8	1436.2
72.5°	33.4	41.2	43.2	45.1	54.9	64.7	72.6	88.3	186.4	461.1	572.9
75°	19.6	27.5	33.4	39.2	45.1	54.9	60.8	62.8	64.7	86.3	139.3
77.5°	13.7	19.6	29.4	37.3	45.1	54.9	64.7	68.7	64.7	60.8	64.7
80°	11.8	19.6	27.5	35.3	47.1	56.9	64.7	64.7	62.8	54.9	58.9
82.5°	11.8	19.6	29.4	37.3	45.1	54.9	62.8	64.7	58.9	54.9	56.9
85°	13.7	21.6	31.4	39.2	49.1	45.1	41.2	33.4	31.4	25.5	27.5
87.5°	13.7	19.6	19.6	21.6	23.5	23.5	23.5	21.6	17.7	15.7	15.7
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°	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0
2.5°	5480.0	5636.9	5631.0	5635.0	5611.4	5452.5	5376.0	5181.7	5236.7	5213.1
5°	5689.9	5844.9	5978.3	5962.6	5782.1	5566.3	5246.5	4944.3	4861.9	4740.3
7.5°	5480.0	5852.8	5976.4	5958.7	5691.9	5415.2	4905.1	4602.9	4459.7	4379.3
10°	5146.4	5578.1	5731.1	5762.5	5582.0	5162.1	4693.2	4208.6	4132.1	3992.7
12.5°	4956.1	5270.0	5364.2	5448.6	5385.8	5071.9	4532.3	4067.3	3961.4	3869.1
15°	4801.1	4987.5	5026.7	5122.9	5160.2	4991.4	4616.7	4220.3	3959.4	3949.6
17.5°	4944.3	4867.8	4724.6	4754.0	4871.7	4993.4	4834.5	4522.5	4269.4	4238.0
20°	5181.7	4844.3	4520.5	4593.1	4691.2	5064.0	5164.1	4944.3	4799.1	4718.7
22.5°	5454.5	4885.5	4455.8	4491.1	4677.5	5222.9	5697.8	5576.1	5305.4	5189.6
25°	5958.7	4999.3	4506.8	4530.3	4785.4	5444.7	6180.4	6270.7	6109.8	6086.2
27.5°	6451.2	5293.6	4618.6	4565.7	4840.3	5660.5	6472.8	6957.4	6674.9	6619.9
30°	6702.3	5532.9	4785.4	4695.2	5067.9	5791.9	6649.3	7404.7	7157.5	7132.0
32.5°	7086.9	5750.7	4914.9	4799.1	5195.5	5954.8	6979.0	7893.3	7653.9	7526.4
35°	7247.8	5988.1	5199.4	5064.0	5560.4	6182.4	7147.7	8328.9	8254.3	8130.7
37.5°	7557.8	6243.2	5534.9	5527.1	6001.9	6478.7	7451.8	8921.4	8907.7	8693.8
40°	7583.3	6521.8	6064.7	6311.9	6684.7	6994.7	7718.7	9086.2	9309.9	9164.7
42.5°	7622.5	7010.4	6980.9	7185.0	7504.8	7438.1	7728.5	9125.4	9466.8	9380.5
45°	7640.2	7498.9	7912.9	8289.6	8423.0	8018.8	7636.3	9050.9	9549.2	9333.4
47.5°	7498.9	7918.8	8666.3	9394.2	9433.5	8375.9	7597.0	8974.4	9598.3	9455.1
50°	7518.5	8181.7	9317.7	9969.1	9825.9	8691.8	7536.2	8927.3	9572.8	9476.6
52°	7471.4	8187.6	9409.9	9957.3	9857.3	8517.2	7432.2	8746.8	9549.2	9617.9
52.5°	7524.4	8152.3	9313.8	9965.2	9835.7	8603.5	7418.5	8846.8	9563.0	9423.7
55°	7341.9	7732.4	8750.7	9027.3	9007.7	7808.9	6996.6	8515.2	9203.9	9205.9
57.5°	6635.6	6702.3	6863.2	6857.3	6767.1	6139.2	5984.2	7830.5	8205.2	8001.2
60°	5846.9	4907.1	4473.4	4296.9	4196.8	4094.8	5293.6	7163.4	7198.7	7112.4
62.5°	5052.2	3402.2	2825.3	2776.3	2799.8	3172.6	5117.0	6898.5	6686.6	6500.2
65°	4077.1	2480.0	2052.3	1987.5	2217.1	2619.3	4141.9	5289.7	4964.0	4809.0
67.5°	2560.5	1809.0	1387.2	1265.5	1542.2	1803.1	2721.3	3323.7	2958.8	2744.9
70°	1518.6	1010.4	627.9	563.1	633.7	961.4	1524.5	1657.9	1371.5	1261.6
72.5°	598.4	370.8	174.6	149.1	155.0	337.5	561.1	547.4	414.0	368.9
75°	160.9	111.8	60.8	49.1	41.2	62.8	90.3	58.9	21.6	27.5
77.5°	74.6	66.7	53.0	41.2	31.4	23.5	11.8	3.9	3.9	2.0
80°	64.7	56.9	49.1	41.2	31.4	19.6	9.8	2.0	2.0	2.0
82.5°	60.8	53.0	45.1	37.3	29.4	19.6	9.8	2.0	0.0	0.0
85°	25.5	33.4	37.3	35.3	31.4	19.6	9.8	2.0	0.0	0.0
87.5°	13.7	11.8	9.8	7.8	5.9	3.9	3.9	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)