

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: P527741

Luminaire Tested: **GALN-SA2D-735-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8012 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

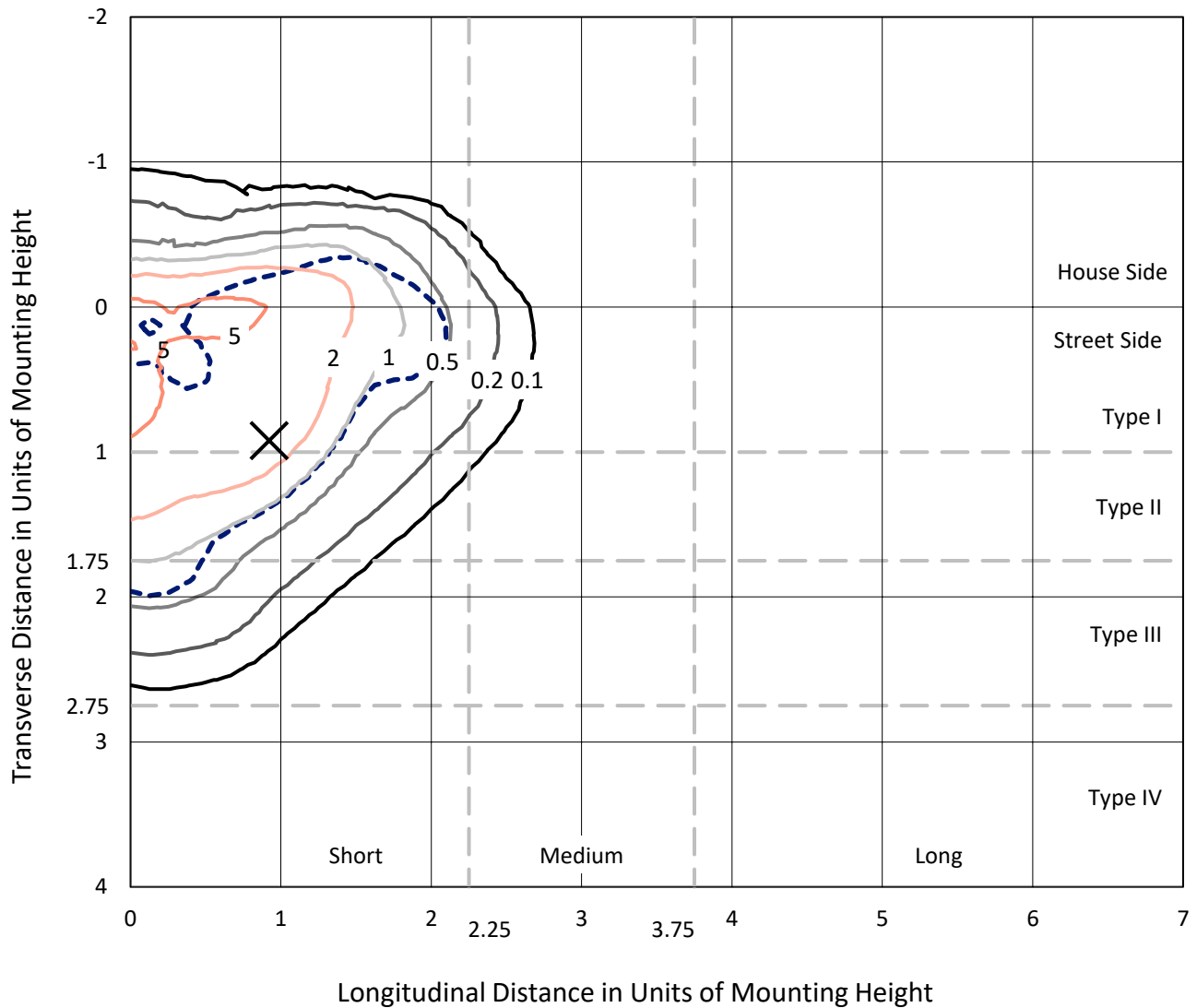
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

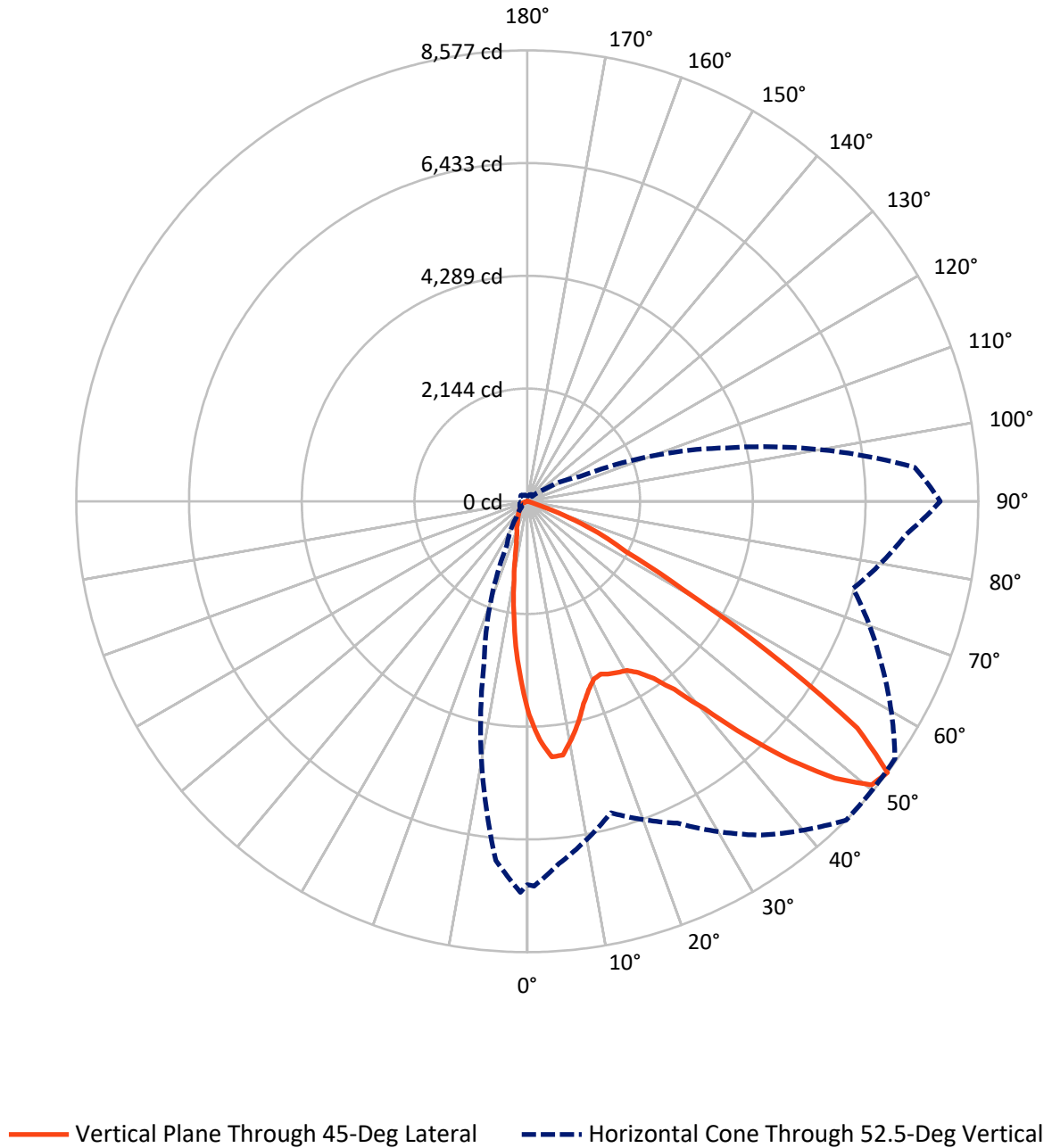
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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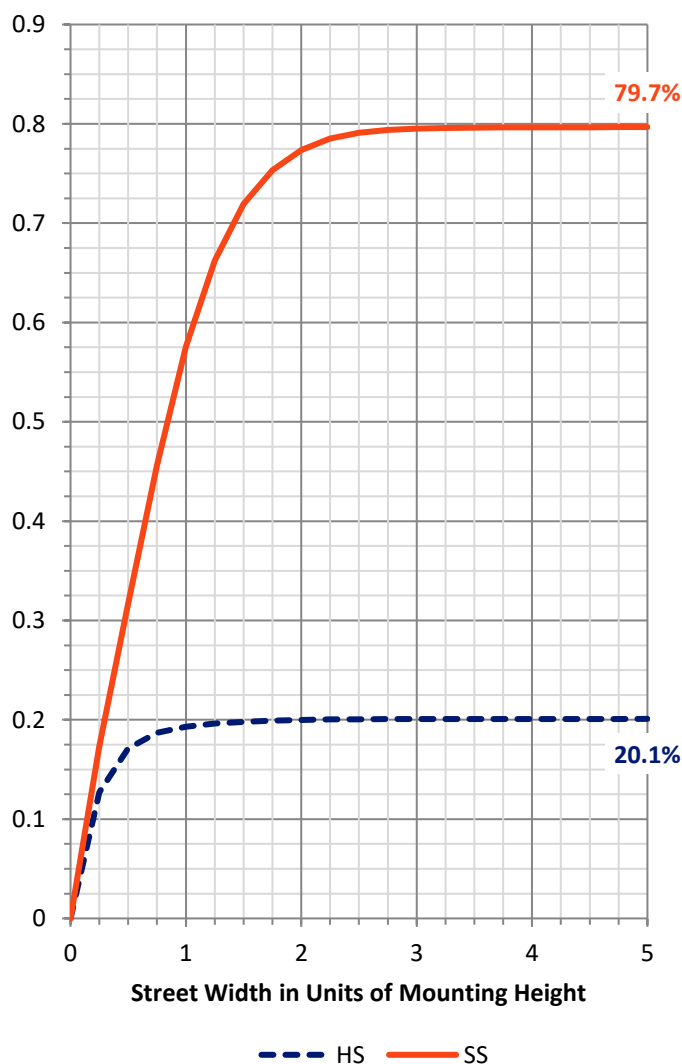
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1626.0	0.0	1626.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	6386.0	0.0	6386.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	8012.0	0.0	8012.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.3	3.7
10°-20°	584.5	7.3
20°-30°	889.6	11.1
30°-40°	1329.5	16.6
40°-50°	1893.4	23.6
50°-60°	2035.3	25.4
60°-70°	901.9	11.3
70°-80°	73.0	0.9
80°-90°	8.5	0.1
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°	8012.0	100.0
0°-180°	8012.0	100.0

Coefficient of Utilization

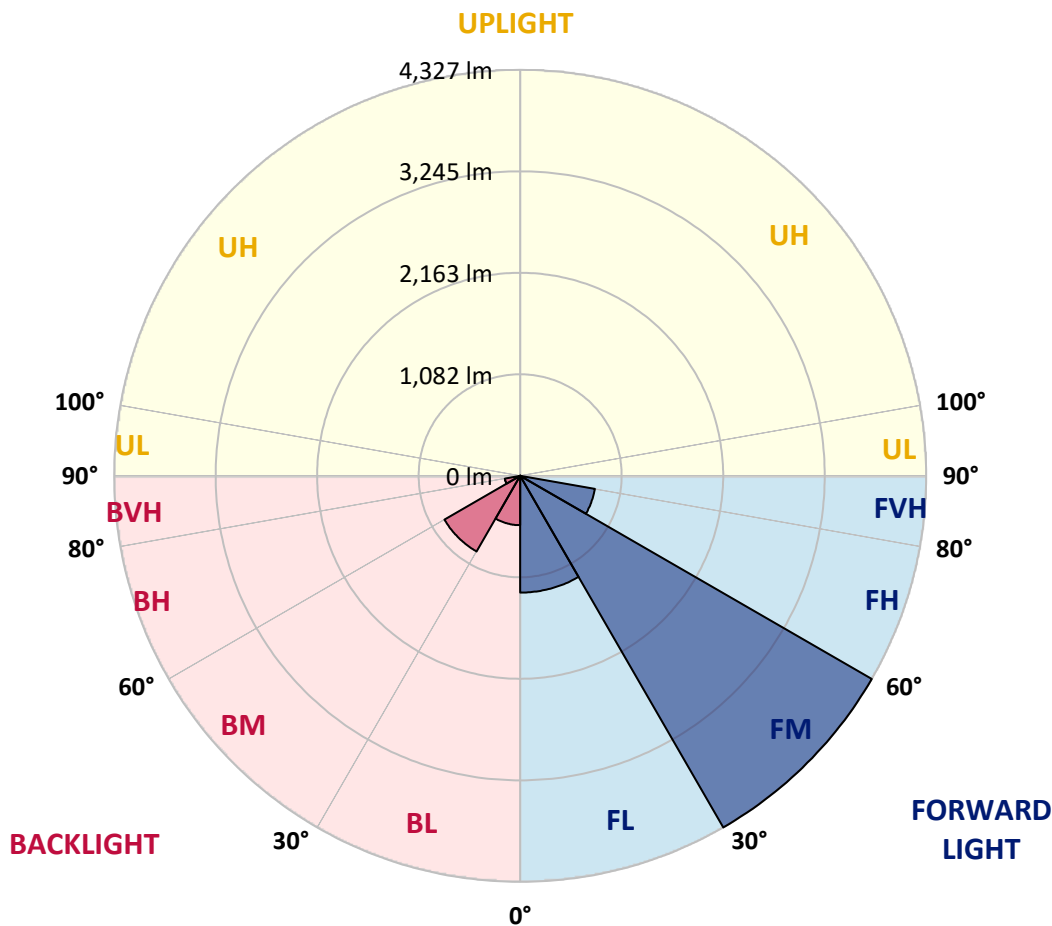


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1244.4	15.5			
FM (30°-60°)	4326.7	54.0			
FH (60°-80°)	808.5	10.1			G1/1800
FVH (80°-90°)	6.3	0.1			G0/10
BL (0°-30°)	525.9	6.6	B2/1000		
BM (30°-60°)	931.5	11.6	B1/1000		
BH (60°-80°)	166.4	2.1	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
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°	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5
2.5°	4298.8	4311.4	4380.8	4467.4	4513.1	4617.1	4544.7	4563.6	4524.2	4385.5	4276.8
5°	4168.0	4166.5	4254.7	4469.0	4672.3	4878.7	4885.0	4774.7	4580.9	4368.2	4064.0
7.5°	3774.1	3835.5	3926.9	4268.9	4645.5	4799.9	4874.0	4744.8	4447.0	4142.8	3813.5
10°	3476.3	3507.8	3662.2	4075.1	4350.8	4557.3	4603.0	4528.9	4300.4	3920.6	3551.9
12.5°	3304.5	3320.2	3501.5	3848.1	4139.7	4292.5	4314.6	4349.3	4185.4	3829.2	3386.4
15°	3306.1	3318.7	3562.9	3852.9	3967.9	3926.9	3999.4	3997.8	4068.8	3811.9	3525.1
17.5°	3544.0	3558.2	3778.8	3922.2	3871.8	3775.7	3770.9	3843.4	3993.1	4027.8	3734.7
20°	3953.7	3986.8	4149.1	4141.2	3857.6	3663.8	3610.2	3665.4	4013.6	4210.6	4157.0
22.5°	4505.3	4551.0	4664.4	4447.0	3922.2	3588.1	3570.8	3678.0	4149.1	4618.7	4636.1
25°	5145.0	5222.3	5277.4	4998.5	4152.3	3718.9	3637.0	3821.4	4331.9	5061.5	5245.9
27.5°	5568.9	5649.3	5636.7	5238.0	4306.7	3753.6	3684.3	3856.0	4491.1	5167.1	5564.2
30°	5899.9	5948.7	6037.0	5367.2	4461.1	3851.3	3733.1	4002.6	4543.1	5349.9	5948.7
32.5°	6285.9	6319.0	6325.3	5595.7	4699.1	3974.2	3884.4	4185.4	4773.1	5524.8	6289.1
35°	6675.2	6724.0	6621.6	5877.8	4845.6	4202.7	4136.5	4502.1	4957.5	5706.0	6664.1
37.5°	7097.5	7122.7	6886.3	5994.4	5055.2	4574.6	4538.4	4844.1	5277.4	6033.8	7080.1
40°	7452.0	7475.7	7168.4	6137.8	5275.8	5094.6	5187.6	5496.4	5712.3	6246.5	7288.2
42.5°	7649.0	7704.2	7262.9	6059.0	5718.6	5684.0	6096.8	6205.6	6216.6	6306.4	7474.1
45°	7702.6	7677.4	7106.9	6123.6	6106.3	6653.1	7028.1	7171.5	6717.7	6416.7	7521.4
47.5°	7455.2	7488.3	6876.9	6066.9	6615.3	7387.4	7872.8	8139.1	7091.2	6320.6	7404.8
50°	7255.1	7212.5	6802.8	6025.9	6752.4	7734.1	8482.6	8542.5	7434.7	6438.8	7277.1
52.5°	7294.5	7321.2	6921.0	6134.7	6755.5	7754.6	8577.2	8536.2	7445.7	6412.0	7231.4
55°	7378.0	7259.8	6870.6	5895.1	6303.3	7182.6	7612.8	7549.7	6872.1	6126.8	7119.5
57.5°	6366.3	6549.1	6317.5	5263.2	5173.4	5411.4	5403.5	5597.3	5126.1	5272.7	6481.3
60°	5167.1	5198.6	5285.3	4502.1	3580.3	3498.3	3384.9	3261.9	3449.5	4508.4	5895.1
62.5°	4544.7	4506.8	4815.7	4095.5	2527.6	2116.3	2097.4	2173.1	2661.6	4300.4	5529.5
65°	3302.9	3350.2	3574.0	3178.4	1897.3	1615.2	1586.8	1810.6	2154.1	3446.3	4220.0
67.5°	2017.0	2108.4	2128.9	1960.3	1287.4	1022.7	981.7	1185.0	1555.3	2229.8	2474.0
70°	931.3	1041.6	1145.6	1070.0	745.4	420.7	397.1	498.0	784.8	1282.7	1312.7
72.5°	282.1	283.6	397.1	414.4	241.1	94.5	83.5	110.3	266.3	423.9	446.0
75°	20.5	22.1	53.6	61.5	45.7	23.6	25.2	29.9	56.7	94.5	70.9
77.5°	1.6	1.6	1.6	7.9	14.2	15.8	20.5	23.6	29.9	34.7	31.5
80°	1.6	0.0	1.6	6.3	11.0	15.8	18.9	22.1	23.6	26.8	23.6
82.5°	0.0	0.0	0.0	4.7	11.0	15.8	17.3	23.6	26.8	31.5	26.8
85°	0.0	0.0	0.0	4.7	11.0	17.3	15.8	7.9	0.0	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°	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5
2.5°	4295.7	4234.2	4094.0	4023.1	3856.0	3832.4	3668.5	3641.7	3586.6	3556.6	3484.1
5°	3930.1	3856.0	3627.5	3435.3	3211.5	3055.5	2935.7	2827.0	2764.0	2705.7	2732.5
7.5°	3632.3	3416.4	3162.7	2841.2	2582.8	2415.7	2232.9	2083.2	1995.0	1935.1	1949.3
10°	3320.2	3180.0	2827.0	2466.2	2154.1	2036.0	1892.6	1777.5	1653.0	1545.9	1495.5
12.5°	3222.5	3014.5	2571.7	2204.6	1968.2	1853.2	1689.3	1556.9	1397.7	1267.0	1221.3
15°	3239.9	3039.8	2502.4	2110.0	1831.1	1632.5	1437.1	1273.3	1098.3	1006.9	959.7
17.5°	3522.0	3175.3	2548.1	2010.7	1640.4	1364.7	1123.6	915.5	784.8	690.2	669.7
20°	3868.6	3468.4	2645.8	1938.3	1484.4	1085.7	821.0	641.4	532.6	516.9	512.1
22.5°	4376.0	3947.4	2855.4	1889.4	1293.7	846.2	562.6	466.4	436.5	433.3	434.9
25°	5085.2	4547.8	3083.9	1848.4	1150.3	652.4	460.1	395.5	386.1	381.3	389.2
27.5°	5392.4	4910.2	3205.2	1760.2	1019.6	587.8	453.8	392.4	365.6	357.7	362.4
30°	5772.2	5151.3	3395.9	1608.9	827.3	483.8	423.9	427.0	414.4	375.0	362.4
32.5°	6276.5	5452.3	3492.0	1501.8	739.1	400.3	310.4	285.2	318.3	324.6	335.6
35°	6599.5	5758.0	3540.9	1438.7	693.4	342.0	263.2	239.5	231.6	233.2	239.5
37.5°	7199.9	6170.9	3602.3	1372.5	658.7	297.8	237.9	215.9	204.9	204.9	211.2
40°	7559.2	6498.7	3685.8	1336.3	624.0	271.0	215.9	197.0	187.5	187.5	190.7
42.5°	7649.0	6661.0	3657.5	1323.7	584.6	264.7	197.0	182.8	171.8	170.2	168.6
45°	7809.7	6908.4	3662.2	1309.5	543.7	241.1	185.9	170.2	154.4	152.9	151.3
47.5°	7986.2	7086.4	3671.7	1254.4	504.3	201.7	193.8	157.6	138.7	135.5	135.5
50°	7835.0	7228.3	3753.6	1199.2	453.8	163.9	190.7	148.1	122.9	118.2	119.8
52.5°	7853.9	7395.3	3926.9	1122.0	390.8	130.8	154.4	140.2	111.9	104.0	105.6
55°	7551.3	7218.8	3950.6	1040.0	305.7	100.9	118.2	122.9	94.5	91.4	91.4
57.5°	6500.2	6112.6	3485.7	843.1	201.7	83.5	85.1	107.2	81.9	78.8	80.4
60°	5562.6	4907.1	2805.0	556.3	126.1	66.2	61.5	108.7	72.5	70.9	75.6
62.5°	5071.0	4032.5	2127.4	345.1	86.7	50.4	42.5	88.2	63.0	63.0	69.3
65°	3663.8	2708.8	1237.0	181.2	61.5	39.4	31.5	50.4	52.0	53.6	56.7
67.5°	2269.2	1367.8	521.6	88.2	41.0	26.8	20.5	31.5	34.7	34.7	37.8
70°	1120.4	545.2	173.3	50.4	31.5	22.1	14.2	17.3	17.3	15.8	17.3
72.5°	346.7	163.9	44.1	31.5	22.1	14.2	7.9	6.3	3.2	0.0	1.6
75°	39.4	31.5	28.4	22.1	14.2	6.3	1.6	0.0	0.0	0.0	0.0
77.5°	23.6	26.8	26.8	22.1	14.2	4.7	0.0	0.0	0.0	0.0	0.0
80°	18.9	20.5	22.1	20.5	12.6	6.3	0.0	0.0	0.0	0.0	0.0
82.5°	23.6	26.8	29.9	26.8	17.3	7.9	3.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	4.7	1.6	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5
2.5°	3454.2	3419.5	3468.4	3395.9	3394.3	3395.9	3375.4	3356.5	3386.4	3466.8	3474.7
5°	2636.3	2710.4	2734.0	2811.3	2768.7	2705.7	2718.3	2675.7	2779.7	2825.4	2789.2
7.5°	1919.3	1914.6	2073.8	2083.2	2103.7	2105.3	2102.1	2018.6	1933.5	1952.4	2009.2
10°	1489.1	1408.8	1486.0	1478.1	1528.5	1514.4	1534.8	1445.0	1475.0	1475.0	1511.2
12.5°	1213.4	1128.3	1114.1	1093.6	1114.1	1122.0	1129.9	1112.5	1163.0	1186.6	1211.8
15°	926.6	879.3	866.7	827.3	833.6	855.7	874.6	882.5	866.7	902.9	906.1
17.5°	672.9	671.3	679.2	677.6	671.3	666.6	665.0	644.5	638.2	641.4	654.0
20°	510.6	523.2	550.0	576.7	590.9	573.6	550.0	515.3	501.1	504.3	505.8
22.5°	436.5	455.4	491.7	521.6	535.8	504.3	461.7	431.8	425.5	423.9	422.3
25°	395.5	417.6	444.4	453.8	452.3	433.3	401.8	389.2	386.1	382.9	368.7
27.5°	373.5	381.3	386.1	397.1	401.8	389.2	381.3	362.4	359.3	359.3	349.8
30°	360.9	356.1	362.4	354.6	360.9	351.4	353.0	353.0	345.1	348.3	348.3
32.5°	335.6	337.2	337.2	321.5	326.2	315.2	326.2	335.6	337.2	338.8	351.4
35°	245.8	274.2	288.4	288.4	293.1	285.2	283.6	272.6	258.4	244.3	237.9
37.5°	215.9	226.9	245.8	256.9	264.7	258.4	244.3	226.9	219.0	212.7	206.4
40°	192.2	201.7	214.3	226.9	242.7	234.8	212.7	204.9	195.4	195.4	189.1
42.5°	173.3	178.1	185.9	204.9	222.2	206.4	190.7	184.4	179.6	178.1	176.5
45°	156.0	157.6	165.5	181.2	201.7	185.9	170.2	162.3	163.9	165.5	163.9
47.5°	140.2	143.4	148.1	167.0	179.6	171.8	154.4	149.7	149.7	149.7	151.3
50°	121.3	129.2	138.7	154.4	163.9	159.2	145.0	138.7	135.5	135.5	137.1
52.5°	108.7	115.0	127.6	146.6	159.2	151.3	137.1	127.6	121.3	119.8	122.9
55°	94.5	105.6	126.1	140.2	157.6	149.7	133.9	122.9	111.9	110.3	110.3
57.5°	85.1	102.4	121.3	138.7	152.9	146.6	133.9	119.8	105.6	104.0	104.0
60°	80.4	99.3	118.2	133.9	152.9	143.4	132.4	116.6	100.9	100.9	99.3
62.5°	75.6	93.0	111.9	127.6	146.6	138.7	127.6	111.9	96.1	96.1	93.0
65°	63.0	80.4	93.0	107.2	127.6	119.8	108.7	97.7	85.1	81.9	83.5
67.5°	44.1	55.2	67.8	81.9	94.5	91.4	86.7	78.8	67.8	66.2	64.6
70°	22.1	29.9	41.0	55.2	66.2	63.0	59.9	53.6	47.3	45.7	45.7
72.5°	3.2	9.5	17.3	25.2	34.7	36.2	34.7	33.1	31.5	29.9	31.5
75°	0.0	0.0	0.0	6.3	14.2	17.3	20.5	23.6	23.6	20.5	25.2
77.5°	0.0	0.0	0.0	0.0	1.6	7.9	15.8	20.5	25.2	22.1	29.9
80°	0.0	0.0	0.0	0.0	1.6	9.5	15.8	22.1	25.2	22.1	31.5
82.5°	0.0	0.0	0.0	0.0	1.6	11.0	15.8	20.5	23.6	22.1	28.4
85°	0.0	0.0	0.0	0.0	4.7	9.5	6.3	3.2	1.6	1.6	4.7
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5
2.5°	3518.8	3630.7	3750.4	3796.1	3938.0	4045.1	4117.6	4273.6	4297.3	4298.8
5°	2827.0	2883.7	3088.6	3184.7	3395.9	3559.8	3734.7	3986.8	4155.4	4168.0
7.5°	2009.2	2166.7	2253.4	2504.0	2764.0	3020.8	3280.9	3574.0	3769.4	3774.1
10°	1616.8	1719.2	1873.6	2061.2	2280.2	2541.8	2888.5	3228.8	3427.4	3476.3
12.5°	1301.6	1481.3	1657.8	1851.6	2018.6	2215.6	2589.1	3042.9	3206.8	3304.5
15°	1002.2	1166.1	1374.1	1601.0	1790.1	2053.3	2478.8	2997.2	3273.0	3306.1
17.5°	739.1	885.6	1077.9	1292.2	1575.8	1949.3	2497.7	3228.8	3488.9	3544.0
20°	531.1	616.1	767.4	1016.4	1377.3	1827.9	2516.6	3463.6	3859.2	3953.7
22.5°	420.7	455.4	554.7	775.3	1155.1	1700.3	2650.5	3912.8	4368.2	4505.3
25°	365.6	384.5	431.8	611.4	1014.8	1687.7	2864.8	4451.7	5045.8	5145.0
27.5°	353.0	356.1	397.1	561.0	939.2	1604.2	2946.8	4834.6	5468.1	5568.9
30°	371.9	422.3	425.5	474.3	798.9	1438.7	2989.3	5204.9	5825.8	5899.9
32.5°	321.5	305.7	316.7	367.2	702.8	1342.6	3069.7	5528.0	6233.9	6285.9
35°	223.8	234.8	260.0	318.3	614.6	1241.7	3090.2	5884.1	6621.6	6675.2
37.5°	206.4	212.7	233.2	271.0	540.5	1185.0	3061.8	6144.1	7023.4	7097.5
40°	192.2	200.1	211.2	245.8	485.4	1122.0	3022.4	6378.9	7269.2	7452.0
42.5°	181.2	187.5	197.0	234.8	438.1	1058.9	2967.3	6709.8	7489.9	7649.0
45°	168.6	178.1	189.1	228.5	411.3	1016.4	2926.3	6689.3	7617.5	7702.6
47.5°	156.0	171.8	184.4	212.7	403.4	995.9	2943.6	6612.1	7513.5	7455.2
50°	143.4	163.9	185.9	176.5	384.5	954.9	2964.1	6717.7	7266.1	7255.1
52.5°	132.4	156.0	173.3	145.0	342.0	915.5	3162.7	6856.4	7441.0	7294.5
55°	116.6	140.2	138.7	116.6	277.3	885.6	3318.7	6859.5	7322.8	7378.0
57.5°	105.6	124.5	108.7	97.7	204.9	740.6	3065.0	5751.7	6268.6	6366.3
60°	97.7	121.3	81.9	77.2	133.9	534.2	2675.7	4454.8	4982.7	5167.1
62.5°	89.8	115.0	64.6	63.0	93.0	379.8	2199.8	3728.4	4294.1	4544.7
65°	78.8	81.9	52.0	48.9	66.2	204.9	1339.4	2567.0	3209.9	3302.9
67.5°	64.6	63.0	42.5	39.4	44.1	99.3	590.9	1285.9	1861.0	2017.0
70°	52.0	52.0	36.2	31.5	31.5	45.7	154.4	512.1	841.5	931.3
72.5°	37.8	39.4	28.4	25.2	23.6	22.1	25.2	102.4	220.6	282.1
75°	33.1	34.7	28.4	22.1	17.3	14.2	11.0	9.5	12.6	20.5
77.5°	36.2	36.2	29.9	20.5	15.8	11.0	6.3	3.2	3.2	1.6
80°	45.7	47.3	39.4	26.8	18.9	12.6	7.9	3.2	1.6	1.6
82.5°	48.9	53.6	44.1	33.1	23.6	14.2	7.9	1.6	0.0	0.0
85°	12.6	20.5	34.7	29.9	23.6	14.2	7.9	1.6	0.0	0.0
87.5°	0.0	1.6	4.7	4.7	6.3	6.3	4.7	1.6	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)