

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: P529121

Luminaire Tested: **GALN-SA4B-730-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529121
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-730-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 11333 lumens
Efficiency: N/A
Efficacy: 69.1 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

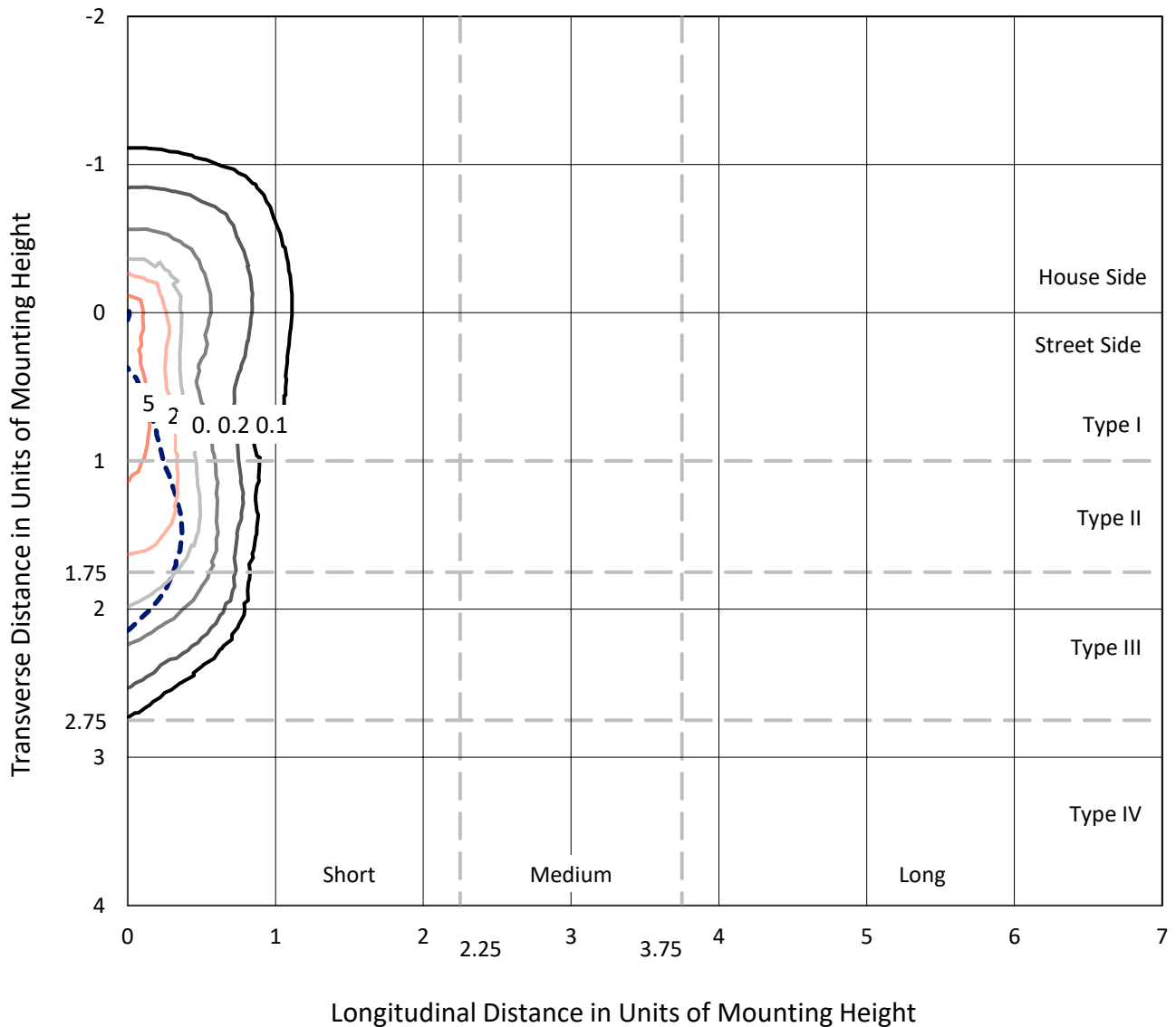




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Iso-Footcandle Lines of Horizontal Illumination

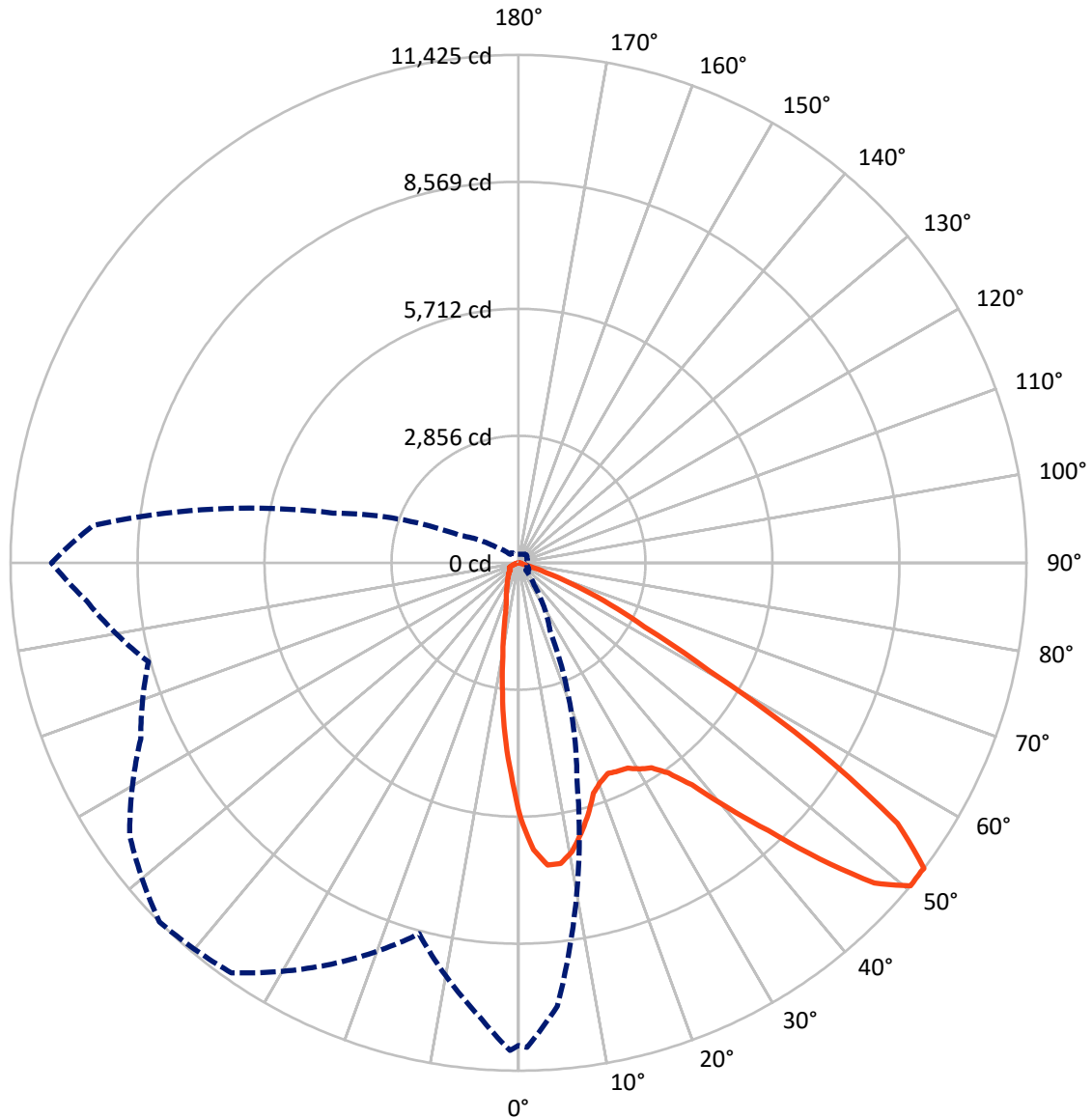
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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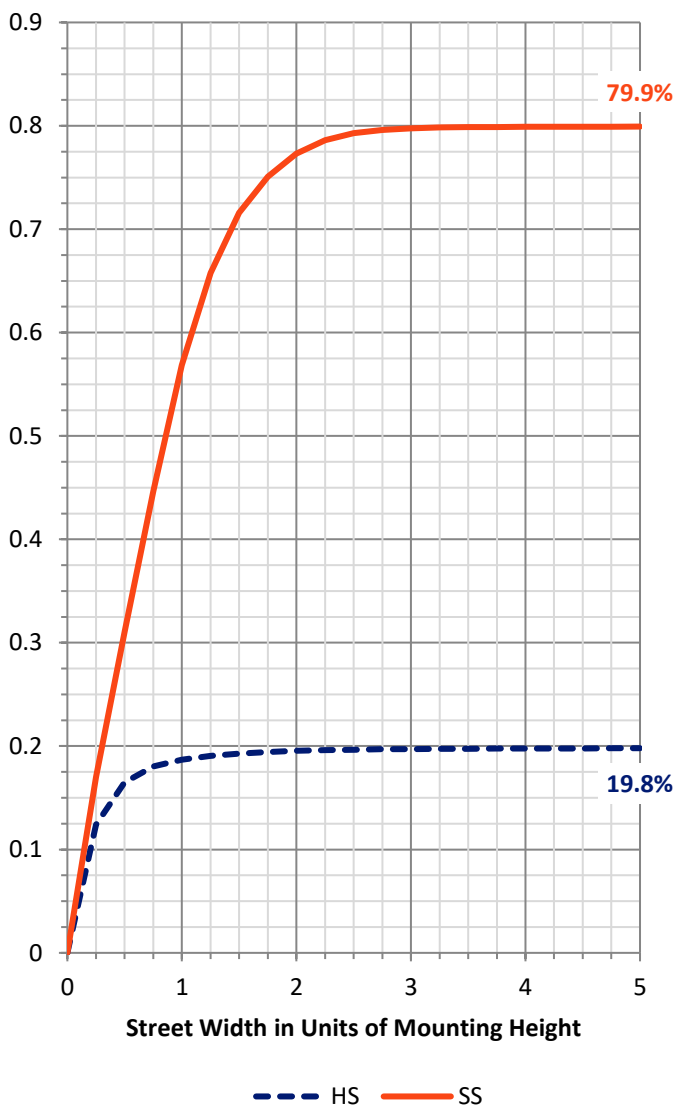
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2270.0	0.0	2270.0
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	9063.0	0.0	9063.0
	% Fixture	80.0	0.0	80.0
Total	Lumens	11333.0	0.0	11333.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.9	3.7
10°-20°	832.6	7.3
20°-30°	1250.8	11.0
30°-40°	1877.4	16.6
40°-50°	2638.5	23.3
50°-60°	2846.1	25.1
60°-70°	1321.4	11.7
70°-80°	124.3	1.1
80°-90°	22.9	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°	11333.0	100.0
0°-180°	11333.0	100.0

Coefficient of Utilization

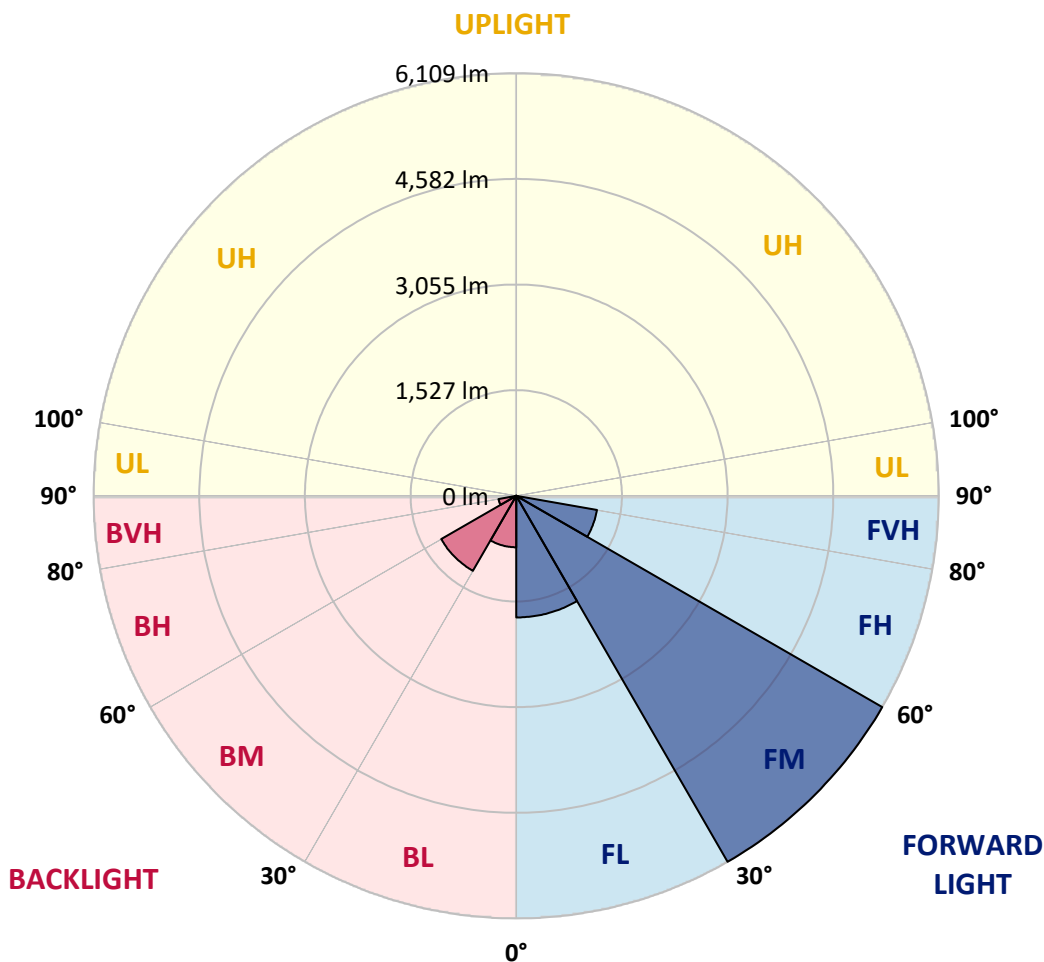


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1758.2	15.5			
FM	(30°-60°)	6109.3	53.9			
FH	(60°-80°)	1185.1	10.5			G1/1800
FVH	(80°-90°)	10.3	0.1			G1/100
BL	(0°-30°)	744.0	6.6	B2/1000		
BM	(30°-60°)	1252.7	11.1	B2/2500		
BH	(60°-80°)	260.7	2.3	B1/500		G1/500
BVH	(80°-90°)	12.6	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°	5747.3	5747.3	5747.3	5747.3	5747.3	5747.3	5747.3	5747.3	5747.3	5747.3	5747.3
2.5°	5974.4	5882.2	5765.2	5668.6	5524.7	5234.6	5155.9	5061.5	4982.8	4877.1	4728.7
5°	5432.5	5403.2	5349.3	4985.0	4721.9	4371.2	4083.3	3961.9	3802.3	3671.9	3577.4
7.5°	5018.7	4901.8	4730.9	4364.4	3943.9	3568.4	3249.1	3062.5	2851.1	2779.2	2651.0
10°	4575.8	4602.8	4350.9	3836.0	3327.8	3024.3	2826.4	2646.5	2455.4	2329.5	2147.4
12.5°	4434.1	4346.4	4153.0	3516.7	3082.7	2799.4	2558.8	2336.2	2133.9	1931.5	1756.1
15°	4526.3	4391.4	4121.6	3449.3	2893.9	2540.8	2239.5	1938.2	1751.6	1493.0	1310.9
17.5°	4856.8	4748.9	4386.9	3521.2	2797.2	2293.5	1846.0	1535.8	1250.2	1016.3	924.1
20°	5407.7	5254.8	4800.6	3613.4	2653.3	1994.5	1497.5	1115.3	845.4	746.5	694.8
22.5°	5947.4	5864.2	5290.8	3791.0	2525.1	1729.1	1124.3	751.0	631.8	613.9	580.1
25°	6975.0	6725.4	6039.6	4112.6	2426.2	1479.5	847.7	604.9	535.2	521.7	526.2
27.5°	7586.6	7377.4	6732.1	4326.2	2316.0	1288.4	717.3	555.4	508.2	478.9	467.7
30°	8173.4	7930.6	7076.1	4452.1	2079.9	1086.0	636.3	532.9	521.7	478.9	465.4
32.5°	8625.4	8387.0	7573.1	4641.0	1983.2	955.6	523.9	416.0	386.7	382.3	422.7
35°	9317.9	9063.9	7998.0	4744.4	1909.0	888.2	454.2	371.0	337.3	323.8	326.0
37.5°	9963.3	9790.1	8391.5	4784.9	1830.3	867.9	407.0	332.8	303.6	294.6	292.3
40°	10502.9	10116.2	8764.8	4827.6	1796.6	829.7	377.8	303.6	283.3	269.8	269.8
42.5°	10750.3	10356.8	9183.0	4802.9	1787.6	769.0	377.8	278.8	263.1	249.6	247.3
45°	10696.3	10536.6	9369.7	4791.6	1787.6	708.3	344.0	272.1	249.6	231.6	227.1
47.5°	10835.7	10626.6	9603.5	4838.9	1751.6	665.6	290.1	285.6	236.1	213.6	209.1
50°	10860.4	10900.9	10010.5	5083.9	1672.9	611.6	227.1	281.1	227.1	193.4	188.9
52°	11022.3	10770.5	10134.2	5214.4	1589.7	571.1	191.1	240.6	218.1	179.9	175.4
52.5°	10799.7	10963.9	10163.4	5261.6	1598.7	544.1	184.4	236.1	213.6	179.9	168.6
55°	10550.1	10707.5	10044.2	5362.8	1466.0	427.2	143.9	170.9	193.4	157.4	150.7
57.5°	9169.5	9329.2	8728.8	4910.8	1194.0	301.3	119.2	128.2	170.9	146.2	139.4
60°	8150.9	8036.3	7325.7	4096.8	847.7	168.6	94.4	98.9	186.6	134.9	132.7
62.5°	7449.4	7204.3	6122.8	3163.7	517.2	112.4	74.2	76.5	143.9	125.9	125.9
65°	5511.2	5236.8	4067.6	1913.5	254.1	78.7	56.2	60.7	89.9	107.9	107.9
67.5°	3145.7	3040.0	1965.2	863.4	105.7	49.5	42.7	47.2	69.7	87.7	83.2
70°	1445.8	1297.4	755.5	182.1	49.5	33.7	33.7	38.2	56.2	65.2	60.7
72.5°	422.7	400.2	184.4	29.2	20.2	20.2	22.5	29.2	42.7	49.5	45.0
75°	31.5	20.2	13.5	9.0	9.0	13.5	18.0	29.2	42.7	47.2	38.2
77.5°	2.2	4.5	2.2	2.2	6.7	13.5	20.2	36.0	56.2	58.5	42.7
80°	2.2	2.2	0.0	2.2	6.7	13.5	22.5	40.5	63.0	67.5	36.0
82.5°	0.0	0.0	0.0	2.2	9.0	18.0	27.0	42.7	58.5	72.0	38.2
85°	0.0	0.0	0.0	2.2	13.5	24.7	31.5	11.2	6.7	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°	5747.3	5747.3	5747.3	5747.3	5747.3	5747.3	5747.3	5747.3	5747.3	5747.3	5747.3
2.5°	4834.4	4775.9	4753.4	4773.6	4766.9	4760.2	4883.8	4856.8	4852.3	4892.8	4883.8
5°	3629.1	3525.7	3809.0	3694.3	3813.5	3885.5	3899.0	3905.7	3988.9	3901.2	4015.9
7.5°	2585.8	2612.8	2610.6	2687.0	2824.2	2945.6	3017.5	2961.3	2956.8	2945.6	2896.1
10°	2066.4	2019.2	2010.2	1992.2	2034.9	2138.4	2226.1	2156.3	2106.9	2174.3	2154.1
12.5°	1688.7	1623.4	1587.5	1515.5	1517.8	1587.5	1587.5	1587.5	1636.9	1675.2	1704.4
15°	1295.2	1241.2	1241.2	1169.2	1153.5	1155.7	1191.7	1196.2	1274.9	1297.4	1308.6
17.5°	906.2	876.9	910.7	939.9	921.9	926.4	939.9	944.4	955.6	946.6	969.1
20°	697.0	692.5	701.5	753.3	791.5	814.0	798.2	775.7	762.3	730.8	730.8
22.5°	591.4	600.4	616.1	658.8	708.3	721.8	703.8	652.1	611.6	607.1	609.4
25°	526.2	535.2	559.9	586.9	613.9	636.3	618.3	580.1	557.6	537.4	537.4
27.5°	485.7	490.2	503.7	523.9	546.4	564.4	557.6	537.4	512.7	503.7	483.4
30°	454.2	461.0	476.7	481.2	501.4	510.4	499.2	494.7	478.9	467.7	461.0
32.5°	438.5	436.2	447.5	452.0	454.2	461.0	447.5	454.2	452.0	434.0	427.2
35°	330.5	348.5	377.8	402.5	409.2	418.2	416.0	407.0	382.3	362.0	337.3
37.5°	296.8	308.0	323.8	344.0	371.0	382.3	377.8	355.3	326.0	312.5	308.0
40°	274.3	281.1	294.6	308.0	335.0	355.3	339.5	319.3	296.8	285.6	278.8
42.5°	254.1	256.3	263.1	276.6	296.8	328.3	301.3	274.3	265.3	258.6	254.1
45°	231.6	231.6	240.6	247.3	269.8	299.1	272.1	247.3	242.8	238.3	236.1
47.5°	213.6	215.9	220.4	229.4	247.3	267.6	249.6	229.4	218.1	215.9	211.4
50°	191.1	193.4	202.4	211.4	233.8	245.1	233.8	211.4	200.1	193.4	193.4
52°	173.1	179.9	188.9	206.9	222.6	240.6	227.1	202.4	188.9	182.1	177.6
52.5°	170.9	175.4	184.4	204.6	222.6	238.3	224.9	200.1	184.4	179.9	175.4
55°	152.9	159.6	175.4	200.1	220.4	238.3	220.4	197.9	175.4	164.1	159.6
57.5°	146.2	150.7	170.9	202.4	218.1	238.3	220.4	197.9	175.4	155.1	150.7
60°	139.4	148.4	170.9	195.6	215.9	240.6	222.6	195.6	170.9	146.2	146.2
62.5°	132.7	139.4	168.6	191.1	206.9	231.6	213.6	191.1	164.1	139.4	137.2
65°	114.7	125.9	148.4	159.6	177.6	200.1	182.1	166.4	143.9	123.7	121.4
67.5°	87.7	92.2	110.2	123.7	134.9	155.1	146.2	125.9	110.2	94.4	94.4
70°	60.7	65.2	78.7	85.4	96.7	107.9	101.2	85.4	74.2	65.2	63.0
72.5°	42.7	45.0	49.5	54.0	58.5	63.0	60.7	49.5	42.7	40.5	38.2
75°	33.7	38.2	40.5	38.2	36.0	33.7	33.7	29.2	24.7	22.5	22.5
77.5°	33.7	36.0	33.7	29.2	24.7	22.5	20.2	18.0	13.5	11.2	13.5
80°	29.2	29.2	29.2	24.7	22.5	20.2	18.0	15.7	13.5	11.2	11.2
82.5°	31.5	31.5	29.2	24.7	24.7	20.2	20.2	18.0	15.7	11.2	11.2
85°	0.0	0.0	0.0	4.5	11.2	20.2	20.2	18.0	15.7	13.5	13.5
87.5°	0.0	0.0	0.0	0.0	2.2	4.5	9.0	11.2	13.5	13.5	13.5
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°	5747.3	5747.3	5747.3	5747.3	5747.3	5747.3	5747.3	5747.3	5747.3	5747.3	5747.3
2.5°	4964.8	5050.2	5212.1	5374.0	5472.9	5589.9	5801.2	5913.7	6059.8	6131.8	6273.4
5°	4000.1	4202.5	4274.5	4458.8	4656.7	4854.6	5169.4	5515.7	5803.5	6001.3	6257.7
7.5°	2918.6	2965.8	3244.6	3368.3	3692.1	4051.9	4481.3	4917.5	5281.8	5605.6	5801.2
10°	2187.8	2361.0	2536.3	2772.4	3033.3	3404.3	3815.8	4297.0	4769.1	5092.9	5340.3
12.5°	1758.4	1895.5	2129.4	2383.4	2705.0	2950.1	3363.8	3840.5	4452.1	4769.1	5095.2
15°	1331.1	1506.5	1771.8	2034.9	2374.5	2633.0	3051.3	3651.6	4438.6	4874.8	5155.9
17.5°	987.1	1106.3	1344.6	1639.2	1985.5	2349.7	2914.1	3631.4	4589.3	5108.7	5398.7
20°	755.5	796.0	946.6	1209.7	1585.2	2061.9	2691.5	3719.1	5034.5	5677.6	5972.1
22.5°	611.6	629.6	688.1	870.2	1234.4	1810.1	2585.8	3779.8	5535.9	6358.9	6752.4
25°	532.9	528.4	566.6	645.3	964.6	1574.0	2450.9	4009.1	6149.7	7159.3	7512.4
27.5°	485.7	485.7	503.7	559.9	800.5	1421.1	2365.5	4173.3	6768.1	7863.1	8054.3
30°	461.0	465.4	517.2	535.2	665.6	1238.9	2223.8	4339.7	7359.5	8312.8	8575.9
32.5°	427.2	409.2	398.0	443.0	559.9	1074.8	2082.1	4409.4	7838.4	8863.7	9088.6
35°	328.3	319.3	332.8	366.5	481.2	935.4	1924.7	4488.1	8389.3	9502.3	9547.3
37.5°	296.8	294.6	303.6	332.8	404.7	814.0	1812.3	4467.8	8809.8	10030.7	9909.3
40°	274.3	274.3	281.1	305.8	362.0	728.5	1695.4	4449.9	9216.8	10624.3	10269.1
42.5°	256.3	256.3	267.6	283.3	344.0	672.3	1607.7	4425.1	9558.5	10988.6	10480.4
45°	231.6	238.3	256.3	272.1	348.5	634.1	1542.5	4330.7	9675.5	10984.1	10379.2
47.5°	213.6	222.6	240.6	263.1	314.8	622.8	1497.5	4247.5	9635.0	10714.3	10062.2
50°	193.4	204.6	229.4	267.6	267.6	600.4	1450.3	4321.7	9605.7	10505.2	9758.6
52°	179.9	188.9	220.4	260.8	233.8	553.1	1421.1	4465.6	9724.9	10478.2	9623.7
52.5°	177.6	184.4	213.6	256.3	222.6	544.1	1400.8	4499.3	9763.1	10410.7	9715.9
55°	157.4	166.4	195.6	200.1	182.1	447.5	1335.6	4575.8	9574.3	10278.1	9628.2
57.5°	148.4	152.9	173.1	164.1	157.4	337.3	1149.0	4456.6	8504.0	9129.1	8958.2
60°	137.2	141.7	161.9	128.2	132.7	236.1	863.4	3869.7	6828.8	7606.8	7914.8
62.5°	132.7	130.4	152.9	103.4	112.4	170.9	609.4	3145.7	5261.6	6262.2	6795.1
65°	116.9	114.7	110.2	87.7	96.7	132.7	364.3	2052.9	3707.8	4737.7	5030.0
67.5°	89.9	94.4	80.9	69.7	80.9	103.4	202.4	919.7	1945.0	2842.2	3078.2
70°	63.0	67.5	65.2	60.7	72.0	85.4	116.9	314.8	805.0	1493.0	1645.9
72.5°	38.2	47.2	49.5	51.7	63.0	74.2	83.2	101.2	213.6	528.4	656.6
75°	22.5	31.5	38.2	45.0	51.7	63.0	69.7	72.0	74.2	98.9	159.6
77.5°	15.7	22.5	33.7	42.7	51.7	63.0	74.2	78.7	74.2	69.7	74.2
80°	13.5	22.5	31.5	40.5	54.0	65.2	74.2	74.2	72.0	63.0	67.5
82.5°	13.5	22.5	33.7	42.7	51.7	63.0	72.0	74.2	67.5	63.0	65.2
85°	15.7	24.7	36.0	45.0	56.2	51.7	47.2	38.2	36.0	29.2	31.5
87.5°	15.7	22.5	22.5	24.7	27.0	27.0	27.0	24.7	20.2	18.0	18.0
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°	5747.3	5747.3	5747.3	5747.3	5747.3	5747.3	5747.3	5747.3	5747.3	5747.3
2.5°	6280.2	6460.0	6453.3	6457.8	6430.8	6248.7	6161.0	5938.4	6001.3	5974.4
5°	6520.8	6698.4	6851.3	6833.3	6626.4	6379.1	6012.6	5666.3	5571.9	5432.5
7.5°	6280.2	6707.4	6849.0	6828.8	6523.0	6206.0	5621.3	5275.1	5110.9	5018.7
10°	5897.9	6392.6	6568.0	6604.0	6397.1	5915.9	5378.5	4823.1	4735.4	4575.8
12.5°	5679.8	6039.6	6147.5	6244.2	6172.2	5812.5	5194.1	4661.2	4539.8	4434.1
15°	5502.2	5715.8	5760.8	5870.9	5913.7	5720.3	5290.8	4836.6	4537.5	4526.3
17.5°	5666.3	5578.6	5414.5	5448.2	5583.1	5722.5	5540.4	5182.9	4892.8	4856.8
20°	5938.4	5551.6	5180.6	5263.8	5376.3	5803.5	5918.1	5666.3	5499.9	5407.7
22.5°	6250.9	5598.9	5106.4	5146.9	5360.5	5985.6	6529.8	6390.3	6080.0	5947.4
25°	6828.8	5729.3	5164.9	5191.9	5484.2	6239.7	7082.9	7186.3	7001.9	6975.0
27.5°	7393.2	6066.6	5293.1	5232.3	5547.1	6487.0	7417.9	7973.3	7649.5	7586.6
30°	7681.0	6340.9	5484.2	5380.7	5808.0	6637.7	7620.3	8486.0	8202.7	8173.4
32.5°	8121.7	6590.5	5632.6	5499.9	5954.1	6824.3	7998.0	9045.9	8771.5	8625.4
35°	8306.1	6862.5	5958.6	5803.5	6372.4	7085.1	8191.4	9545.0	9459.6	9317.9
37.5°	8661.4	7154.8	6343.1	6334.1	6878.3	7424.7	8539.9	10224.1	10208.4	9963.3
40°	8690.6	7474.1	6950.2	7233.5	7660.8	8016.0	8845.7	10413.0	10669.3	10502.9
42.5°	8735.6	8034.0	8000.3	8234.1	8600.7	8524.2	8857.0	10457.9	10849.2	10750.3
45°	8755.8	8593.9	9068.3	9500.1	9653.0	9189.8	8751.3	10372.5	10943.6	10696.3
47.5°	8593.9	9075.1	9931.8	10766.0	10811.0	9599.0	8706.3	10284.8	10999.8	10835.7
50°	8616.4	9376.4	10678.3	11424.8	11260.7	9961.0	8636.6	10230.8	10970.6	10860.4
52°	8562.4	9383.1	10784.0	11411.3	11296.6	9760.9	8517.5	10024.0	10943.6	11022.3
52.5°	8623.1	9342.7	10673.8	11420.3	11271.9	9859.8	8501.7	10138.7	10959.4	10799.7
55°	8414.0	8861.5	10028.5	10345.5	10323.0	8949.2	8018.3	9758.6	10547.9	10550.1
57.5°	7604.6	7681.0	7865.4	7858.6	7755.2	7035.7	6858.0	8973.9	9403.4	9169.5
60°	6700.6	5623.6	5126.7	4924.3	4809.6	4692.7	6066.6	8209.4	8249.9	8150.9
62.5°	5790.0	3899.0	3237.9	3181.7	3208.7	3635.9	5864.2	7905.9	7663.0	7449.4
65°	4672.5	2842.2	2352.0	2277.8	2540.8	3001.8	4746.7	6062.1	5688.8	5511.2
67.5°	2934.3	2073.2	1589.7	1450.3	1767.3	2066.4	3118.7	3809.0	3390.8	3145.7
70°	1740.4	1158.0	719.5	645.3	726.3	1101.8	1747.1	1900.0	1571.7	1445.8
72.5°	685.8	425.0	200.1	170.9	177.6	386.7	643.1	627.3	474.4	422.7
75°	184.4	128.2	69.7	56.2	47.2	72.0	103.4	67.5	24.7	31.5
77.5°	85.4	76.5	60.7	47.2	36.0	27.0	13.5	4.5	4.5	2.2
80°	74.2	65.2	56.2	47.2	36.0	22.5	11.2	2.2	2.2	2.2
82.5°	69.7	60.7	51.7	42.7	33.7	22.5	11.2	2.2	0.0	0.0
85°	29.2	38.2	42.7	40.5	36.0	22.5	11.2	2.2	0.0	0.0
87.5°	15.7	13.5	11.2	9.0	6.7	4.5	4.5	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)