

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: P531667

Luminaire Tested: **GALN-SA7A-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531667
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-SA7A-727-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA 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: 14727 lumens
Efficiency: N/A
Efficacy: 68.5 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

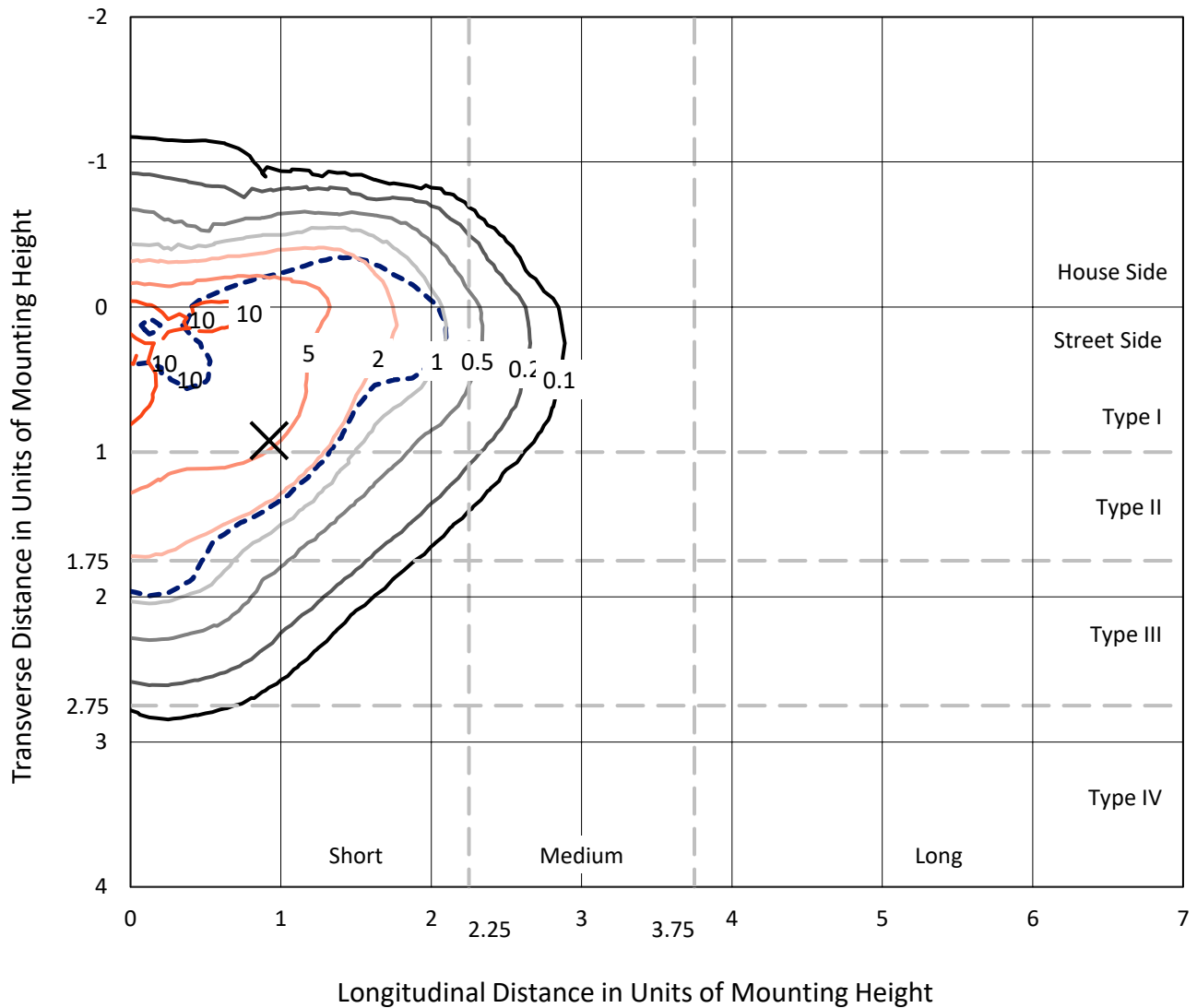
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

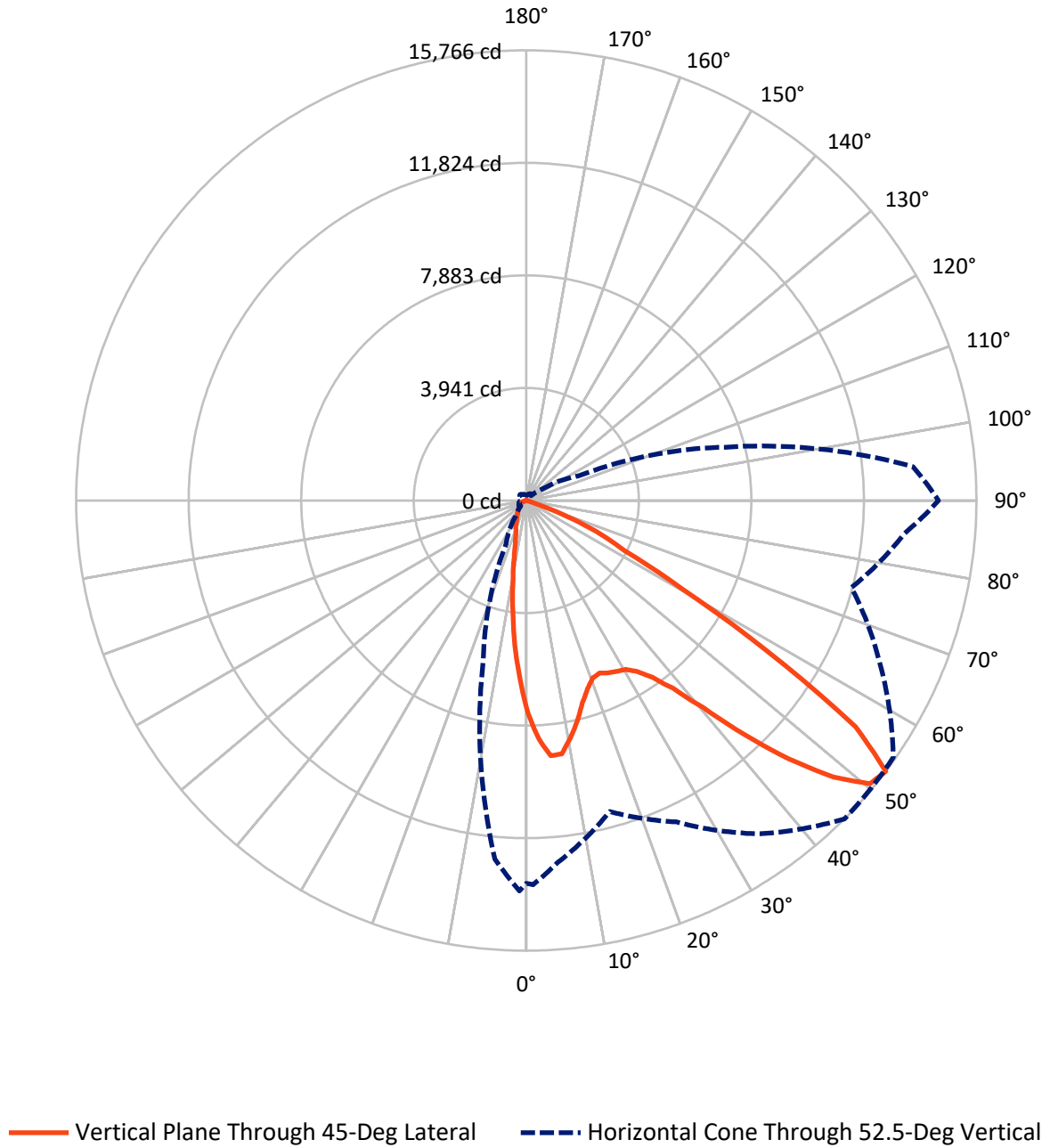
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	2988.9	0.0	2988.9
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	11738.2	0.0	11738.2
	% Fixture	79.7	0.0	79.7
Total	Lumens	14727.0	0.0	14727.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.6	3.7
10°-20°	1074.4	7.3
20°-30°	1635.1	11.1
30°-40°	2443.9	16.6
40°-50°	3480.3	23.6
50°-60°	3741.2	25.4
60°-70°	1657.8	11.3
70°-80°	134.1	0.9
80°-90°	15.6	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°	14727.0	100.0
0°-180°	14727.0	100.0

Coefficient of Utilization



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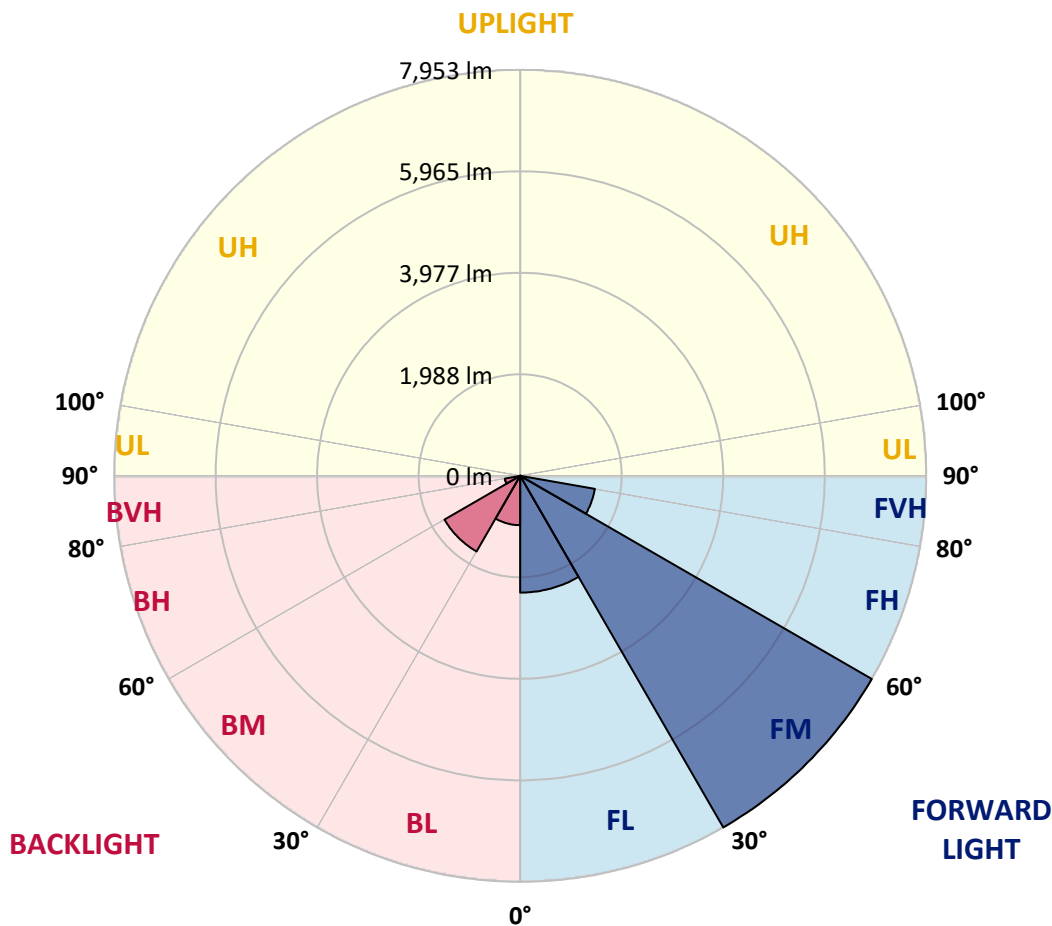
CATALOG NUMBER: GALN-SA7A-727-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2287.4	15.5			
FM (30°-60°)	7953.0	54.0			
FH (60°-80°)	1486.1	10.1			G1/1800
FVH (80°-90°)	11.6	0.1			G1/100
BL (0°-30°)	966.7	6.6	B2/1000		
BM (30°-60°)	1712.3	11.6	B2/2500		
BH (60°-80°)	305.8	2.1	B1/500		G1/500
BVH (80°-90°)	4.1	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°	7467.3	7467.3	7467.3	7467.3	7467.3	7467.3	7467.3	7467.3	7467.3	7467.3	7467.3
2.5°	7901.8	7924.9	8052.4	8211.7	8295.7	8486.9	8353.6	8388.4	8316.0	8061.1	7861.2
5°	7661.3	7658.4	7820.7	8214.6	8588.2	8967.7	8979.3	8776.5	8420.2	8029.2	7470.2
7.5°	6937.2	7050.2	7218.2	7846.7	8539.0	8822.9	8959.0	8721.5	8174.0	7615.0	7009.6
10°	6389.8	6447.7	6731.6	7490.4	7997.3	8376.8	8460.8	8324.6	7904.7	7206.6	6528.8
12.5°	6074.0	6103.0	6436.1	7073.3	7609.2	7890.2	7930.7	7994.4	7693.2	7038.6	6224.7
15°	6076.9	6100.1	6549.1	7082.0	7293.5	7218.2	7351.4	7348.5	7478.9	7006.7	6479.6
17.5°	6514.3	6540.4	6945.9	7209.5	7116.8	6940.1	6931.4	7064.7	7339.8	7403.5	6864.8
20°	7267.4	7328.2	7626.6	7612.1	7090.7	6734.4	6636.0	6737.3	7377.5	7739.5	7641.1
22.5°	8281.2	8365.2	8573.8	8174.0	7209.5	6595.4	6563.6	6760.5	7626.6	8489.8	8521.6
25°	9457.2	9599.1	9700.5	9187.8	7632.4	6835.8	6685.2	7024.1	7962.6	9303.7	9642.6
27.5°	10236.4	10384.1	10360.9	9628.1	7916.2	6899.6	6772.1	7087.8	8255.1	9497.7	10227.7
30°	10844.6	10934.4	11096.6	9865.6	8200.1	7079.1	6861.9	7357.2	8350.7	9833.7	10934.4
32.5°	11554.3	11615.1	11626.7	10285.6	8637.5	7305.1	7140.0	7693.2	8773.6	10155.3	11560.1
35°	12269.7	12359.5	12171.3	10804.1	8906.9	7725.1	7603.4	8275.4	9112.5	10488.4	12249.5
37.5°	13046.0	13092.3	12657.9	11018.4	9292.1	8408.6	8342.0	8904.0	9700.5	11090.8	13014.1
40°	13697.7	13741.2	13176.3	11282.0	9697.6	9364.5	9535.4	10103.1	10499.9	11481.9	13396.5
42.5°	14059.8	14161.2	13350.1	11137.2	10511.5	10447.8	11206.7	11406.6	11426.8	11591.9	13738.3
45°	14158.3	14111.9	13063.4	11255.9	11224.1	12229.2	12918.6	13182.1	12347.9	11794.7	13825.2
47.5°	13703.5	13764.3	12640.5	11151.7	12159.7	13579.0	14471.1	14960.6	13034.4	11618.0	13610.8
50°	13335.7	13257.5	12504.4	11076.4	12411.7	14216.2	15592.1	15702.1	13665.9	11835.3	13376.2
52.5°	13408.1	13457.3	12721.6	11276.2	12417.5	14253.9	15765.9	15690.5	13686.1	11786.0	13292.2
55°	13561.6	13344.3	12628.9	10835.9	11586.1	13202.4	13993.2	13877.3	12631.8	11261.7	13086.6
57.5°	11702.0	12038.0	11612.2	9674.4	9509.3	9946.7	9932.2	10288.5	9422.4	9691.8	11913.5
60°	9497.7	9555.7	9715.0	8275.4	6580.9	6430.3	6221.8	5995.8	6340.5	8287.0	10835.9
62.5°	8353.6	8284.1	8851.8	7528.1	4646.0	3890.0	3855.3	3994.3	4892.3	7904.7	10163.9
65°	6071.1	6158.0	6569.3	5842.3	3487.4	2969.0	2916.8	3328.1	3959.6	6334.7	7756.9
67.5°	3707.6	3875.6	3913.2	3603.3	2366.5	1879.9	1804.5	2178.2	2858.9	4098.6	4547.6
70°	1711.9	1914.6	2105.8	1966.7	1370.1	773.4	729.9	915.3	1442.5	2357.8	2412.8
72.5°	518.5	521.4	729.9	761.8	443.2	173.8	153.5	202.8	489.5	779.2	819.7
75°	37.7	40.6	98.5	113.0	84.0	43.4	46.3	55.0	104.3	173.8	130.3
77.5°	2.9	2.9	2.9	14.5	26.1	29.0	37.7	43.4	55.0	63.7	57.9
80°	2.9	0.0	2.9	11.6	20.3	29.0	34.8	40.6	43.4	49.2	43.4
82.5°	0.0	0.0	0.0	8.7	20.3	29.0	31.9	43.4	49.2	57.9	49.2
85°	0.0	0.0	0.0	8.7	20.3	31.9	29.0	14.5	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°	7467.3	7467.3	7467.3	7467.3	7467.3	7467.3	7467.3	7467.3	7467.3	7467.3	7467.3
2.5°	7896.0	7783.0	7525.2	7394.9	7087.8	7044.4	6743.1	6693.9	6592.5	6537.5	6404.2
5°	7224.0	7087.8	6667.8	6314.5	5903.1	5616.4	5396.2	5196.4	5080.5	4973.4	5022.6
7.5°	6676.5	6279.7	5813.4	5222.5	4747.4	4440.4	4104.4	3829.2	3667.0	3556.9	3583.0
10°	6103.0	5845.2	5196.4	4533.1	3959.6	3742.3	3478.7	3267.3	3038.5	2841.5	2748.8
12.5°	5923.4	5541.1	4727.1	4052.3	3617.8	3406.3	3105.1	2861.8	2569.2	2328.8	2244.8
15°	5955.3	5587.4	4599.7	3878.5	3365.8	3000.8	2641.6	2340.4	2018.9	1850.9	1764.0
17.5°	6473.8	5836.5	4683.7	3696.0	3015.3	2508.4	2065.2	1682.9	1442.5	1268.7	1231.0
20°	7111.0	6375.3	4863.3	3562.7	2728.5	1995.7	1509.1	1178.9	979.0	950.1	941.4
22.5°	8043.7	7255.8	5248.5	3472.9	2378.1	1555.4	1034.1	857.4	802.3	796.5	799.4
25°	9347.1	8359.4	5668.5	3397.6	2114.5	1199.2	845.8	727.0	709.7	701.0	715.4
27.5°	9912.0	9025.6	5891.6	3235.4	1874.1	1080.4	834.2	721.2	672.0	657.5	666.2
30°	10610.0	9468.8	6242.0	2957.4	1520.7	889.2	779.2	785.0	761.8	689.4	666.2
32.5°	11536.9	10022.0	6418.7	2760.4	1358.5	735.7	570.6	524.3	585.1	596.7	617.0
35°	12130.7	10583.9	6508.5	2644.5	1274.5	628.5	483.7	440.3	425.8	428.7	440.3
37.5°	13234.3	11342.8	6621.5	2522.9	1210.8	547.4	437.4	396.8	376.5	376.5	388.1
40°	13894.7	11945.3	6775.0	2456.3	1147.0	498.2	396.8	362.1	344.7	344.7	350.5
42.5°	14059.8	12243.7	6722.9	2433.1	1074.6	486.6	362.1	336.0	315.7	312.8	309.9
45°	14355.2	12698.4	6731.6	2407.0	999.3	443.2	341.8	312.8	283.9	281.0	278.1
47.5°	14679.7	13025.7	6748.9	2305.6	926.9	370.8	356.3	289.7	254.9	249.1	249.1
50°	14401.6	13286.4	6899.6	2204.3	834.2	301.2	350.5	272.3	225.9	217.2	220.1
52.5°	14436.3	13593.5	7218.2	2062.3	718.3	240.4	283.9	257.8	205.7	191.2	194.1
55°	13880.2	13269.0	7261.6	1911.7	561.9	185.4	217.2	225.9	173.8	168.0	168.0
57.5°	11948.2	11235.7	6407.1	1549.6	370.8	153.5	156.4	197.0	150.6	144.8	147.7
60°	10224.8	9019.8	5155.8	1022.5	231.7	121.7	113.0	199.9	133.2	130.3	139.0
62.5°	9321.1	7412.2	3910.3	634.3	159.3	92.7	78.2	162.2	115.9	115.9	127.4
65°	6734.4	4979.1	2273.8	333.1	113.0	72.4	57.9	92.7	95.6	98.5	104.3
67.5°	4171.0	2514.2	958.8	162.2	75.3	49.2	37.7	57.9	63.7	63.7	69.5
70°	2059.4	1002.2	318.6	92.7	57.9	40.6	26.1	31.9	31.9	29.0	31.9
72.5°	637.2	301.2	81.1	57.9	40.6	26.1	14.5	11.6	5.8	0.0	2.9
75°	72.4	57.9	52.1	40.6	26.1	11.6	2.9	0.0	0.0	0.0	0.0
77.5°	43.4	49.2	49.2	40.6	26.1	8.7	0.0	0.0	0.0	0.0	0.0
80°	34.8	37.7	40.6	37.7	23.2	11.6	0.0	0.0	0.0	0.0	0.0
82.5°	43.4	49.2	55.0	49.2	31.9	14.5	5.8	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	8.7	2.9	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°	7467.3	7467.3	7467.3	7467.3	7467.3	7467.3	7467.3	7467.3	7467.3	7467.3	7467.3
2.5°	6349.2	6285.5	6375.3	6242.0	6239.1	6242.0	6204.4	6169.6	6224.7	6372.4	6386.9
5°	4845.9	4982.0	5025.5	5167.4	5089.2	4973.4	4996.5	4918.3	5109.5	5193.5	5126.9
7.5°	3528.0	3519.3	3811.8	3829.2	3866.9	3869.8	3864.0	3710.5	3554.1	3588.8	3693.1
10°	2737.2	2589.5	2731.4	2717.0	2809.6	2783.6	2821.2	2656.1	2711.2	2711.2	2777.8
12.5°	2230.3	2073.9	2047.9	2010.2	2047.9	2062.3	2076.8	2045.0	2137.6	2181.1	2227.4
15°	1703.2	1616.3	1593.1	1520.7	1532.3	1572.8	1607.6	1622.1	1593.1	1659.7	1665.5
17.5°	1236.8	1233.9	1248.4	1245.5	1233.9	1225.2	1222.3	1184.7	1173.1	1178.9	1202.1
20°	938.5	961.7	1010.9	1060.1	1086.2	1054.3	1010.9	947.2	921.1	926.9	929.8
22.5°	802.3	837.1	903.7	958.8	984.8	926.9	848.7	793.7	782.1	779.2	776.3
25°	727.0	767.6	816.8	834.2	831.3	796.5	738.6	715.4	709.7	703.9	677.8
27.5°	686.5	701.0	709.7	729.9	738.6	715.4	701.0	666.2	660.4	660.4	643.0
30°	663.3	654.6	666.2	651.7	663.3	645.9	648.8	648.8	634.3	640.1	640.1
32.5°	617.0	619.9	619.9	590.9	599.6	579.3	599.6	617.0	619.9	622.8	645.9
35°	451.9	504.0	530.1	530.1	538.8	524.3	521.4	501.1	475.0	449.0	437.4
37.5°	396.8	417.1	451.9	472.1	486.6	475.0	449.0	417.1	402.6	391.0	379.4
40°	353.4	370.8	393.9	417.1	446.1	431.6	391.0	376.5	359.2	359.2	347.6
42.5°	318.6	327.3	341.8	376.5	408.4	379.4	350.5	338.9	330.2	327.3	324.4
45°	286.8	289.7	304.1	333.1	370.8	341.8	312.8	298.3	301.2	304.1	301.2
47.5°	257.8	263.6	272.3	307.0	330.2	315.7	283.9	275.2	275.2	275.2	278.1
50°	223.0	237.5	254.9	283.9	301.2	292.6	266.5	254.9	249.1	249.1	252.0
52.5°	199.9	211.4	234.6	269.4	292.6	278.1	252.0	234.6	223.0	220.1	225.9
55°	173.8	194.1	231.7	257.8	289.7	275.2	246.2	225.9	205.7	202.8	202.8
57.5°	156.4	188.3	223.0	254.9	281.0	269.4	246.2	220.1	194.1	191.2	191.2
60°	147.7	182.5	217.2	246.2	281.0	263.6	243.3	214.3	185.4	185.4	182.5
62.5°	139.0	170.9	205.7	234.6	269.4	254.9	234.6	205.7	176.7	176.7	170.9
65°	115.9	147.7	170.9	197.0	234.6	220.1	199.9	179.6	156.4	150.6	153.5
67.5°	81.1	101.4	124.6	150.6	173.8	168.0	159.3	144.8	124.6	121.7	118.8
70°	40.6	55.0	75.3	101.4	121.7	115.9	110.1	98.5	86.9	84.0	84.0
72.5°	5.8	17.4	31.9	46.3	63.7	66.6	63.7	60.8	57.9	55.0	57.9
75°	0.0	0.0	0.0	11.6	26.1	31.9	37.7	43.4	43.4	37.7	46.3
77.5°	0.0	0.0	0.0	0.0	2.9	14.5	29.0	37.7	46.3	40.6	55.0
80°	0.0	0.0	0.0	0.0	2.9	17.4	29.0	40.6	46.3	40.6	57.9
82.5°	0.0	0.0	0.0	0.0	2.9	20.3	29.0	37.7	43.4	40.6	52.1
85°	0.0	0.0	0.0	0.0	8.7	17.4	11.6	5.8	2.9	2.9	8.7
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°	7467.3	7467.3	7467.3	7467.3	7467.3	7467.3	7467.3	7467.3	7467.3	7467.3
2.5°	6468.0	6673.6	6893.8	6977.8	7238.4	7435.4	7568.7	7855.4	7898.9	7901.8
5°	5196.4	5300.7	5677.2	5853.9	6242.0	6543.3	6864.8	7328.2	7638.2	7661.3
7.5°	3693.1	3982.7	4142.0	4602.6	5080.5	5552.7	6030.6	6569.3	6928.5	6937.2
10°	2971.8	3160.1	3444.0	3788.7	4191.3	4672.1	5309.4	5935.0	6300.0	6389.8
12.5°	2392.5	2722.7	3047.2	3403.4	3710.5	4072.5	4759.0	5593.2	5894.5	6074.0
15°	1842.2	2143.4	2525.8	2942.9	3290.5	3774.2	4556.3	5509.2	6016.1	6076.9
17.5°	1358.5	1627.9	1981.2	2375.2	2896.5	3583.0	4591.0	5935.0	6412.9	6514.3
20°	976.1	1132.5	1410.6	1868.3	2531.6	3360.0	4625.8	6366.6	7093.6	7267.4
22.5°	773.4	837.1	1019.6	1425.1	2123.2	3125.4	4872.0	7192.1	8029.2	8281.2
25°	672.0	706.8	793.7	1123.9	1865.4	3102.2	5265.9	8182.7	9274.7	9457.2
27.5°	648.8	654.6	729.9	1031.2	1726.3	2948.7	5416.5	8886.6	10051.0	10236.4
30°	683.6	776.3	782.1	871.9	1468.5	2644.5	5494.7	9567.3	10708.5	10844.6
32.5°	590.9	561.9	582.2	674.9	1291.9	2467.8	5642.5	10161.1	11458.7	11554.3
35°	411.3	431.6	477.9	585.1	1129.6	2282.5	5680.1	10815.7	12171.3	12269.7
37.5°	379.4	391.0	428.7	498.2	993.5	2178.2	5628.0	11293.6	12909.9	13046.0
40°	353.4	367.9	388.1	451.9	892.1	2062.3	5555.6	11725.2	13361.7	13697.7
42.5°	333.1	344.7	362.1	431.6	805.2	1946.5	5454.2	12333.5	13767.2	14059.8
45°	309.9	327.3	347.6	420.0	756.0	1868.3	5378.9	12295.8	14001.9	14158.3
47.5°	286.8	315.7	338.9	391.0	741.5	1830.6	5410.7	12153.9	13810.7	13703.5
50°	263.6	301.2	341.8	324.4	706.8	1755.3	5448.4	12347.9	13355.9	13335.7
52.5°	243.3	286.8	318.6	266.5	628.5	1682.9	5813.4	12602.8	13677.4	13408.1
55°	214.3	257.8	254.9	214.3	509.8	1627.9	6100.1	12608.6	13460.2	13561.6
57.5°	194.1	228.8	199.9	179.6	376.5	1361.4	5633.8	10572.4	11522.4	11702.0
60°	179.6	223.0	150.6	141.9	246.2	981.9	4918.3	8188.5	9158.9	9497.7
62.5°	165.1	211.4	118.8	115.9	170.9	698.1	4043.6	6853.2	7893.1	8353.6
65°	144.8	150.6	95.6	89.8	121.7	376.5	2462.1	4718.5	5900.2	6071.1
67.5°	118.8	115.9	78.2	72.4	81.1	182.5	1086.2	2363.6	3420.8	3707.6
70°	95.6	95.6	66.6	57.9	57.9	84.0	283.9	941.4	1546.8	1711.9
72.5°	69.5	72.4	52.1	46.3	43.4	40.6	46.3	188.3	405.5	518.5
75°	60.8	63.7	52.1	40.6	31.9	26.1	20.3	17.4	23.2	37.7
77.5°	66.6	66.6	55.0	37.7	29.0	20.3	11.6	5.8	5.8	2.9
80°	84.0	86.9	72.4	49.2	34.8	23.2	14.5	5.8	2.9	2.9
82.5°	89.8	98.5	81.1	60.8	43.4	26.1	14.5	2.9	0.0	0.0
85°	23.2	37.7	63.7	55.0	43.4	26.1	14.5	2.9	0.0	0.0
87.5°	0.0	2.9	8.7	8.7	11.6	11.6	8.7	2.9	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)