

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: P458932

Luminaire Tested: **GALN-SA4C-735-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-735-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22332 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

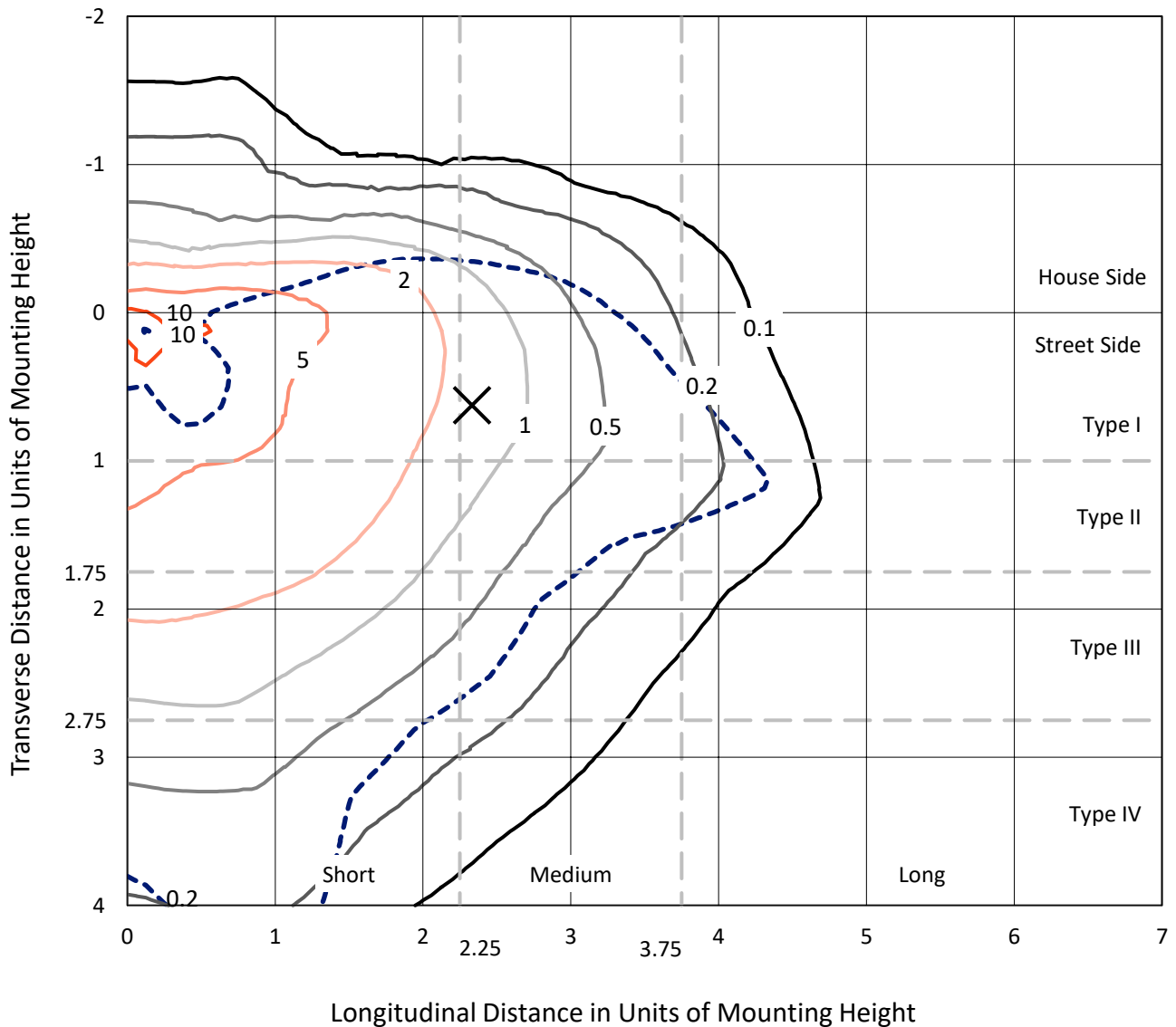
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

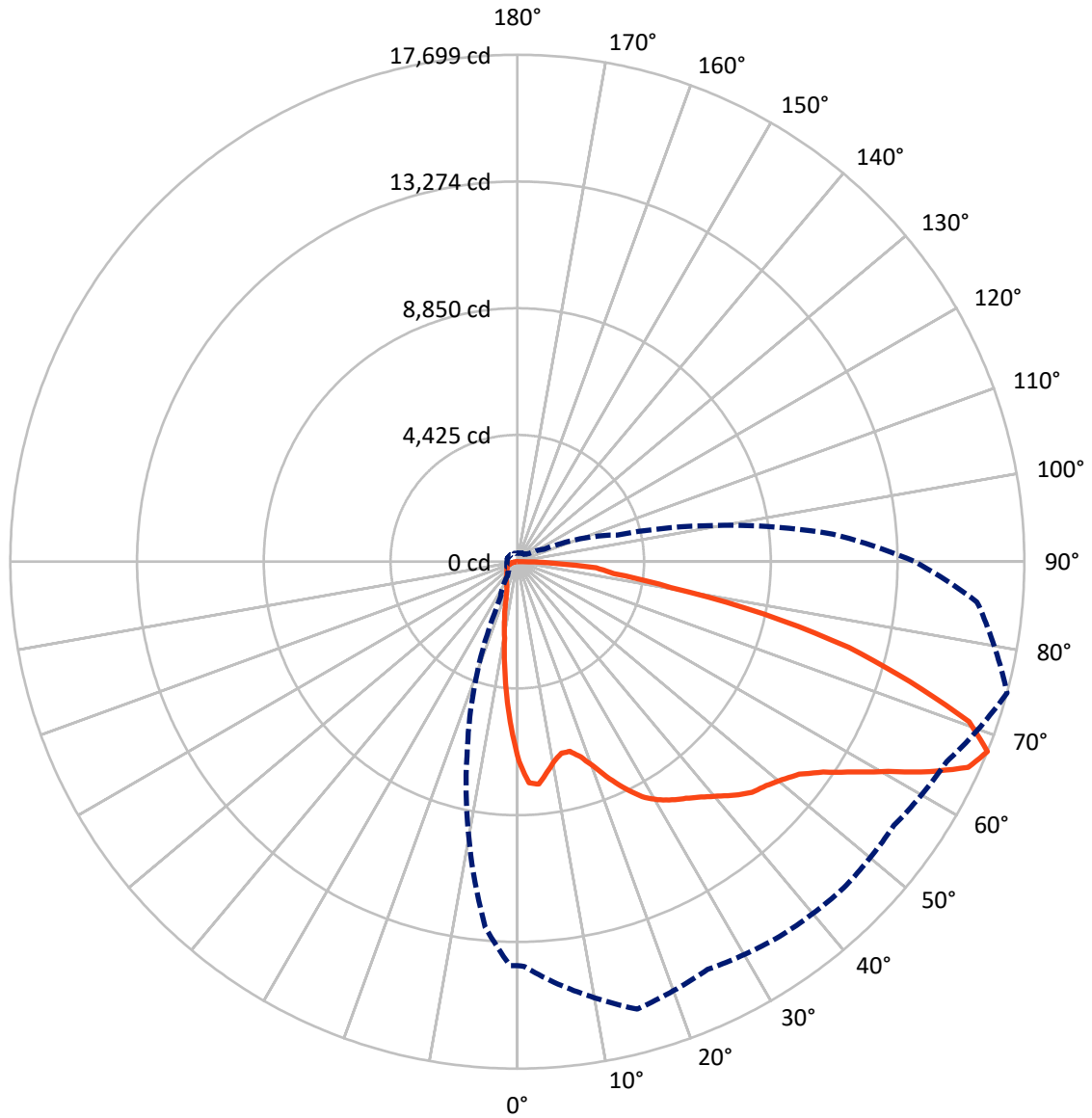
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3774.6	0.0	3774.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	18557.4	0.0	18557.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	22332.0	0.0	22332.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.2	2.4
10°-20°	1103.6	4.9
20°-30°	1588.2	7.1
30°-40°	2287.4	10.2
40°-50°	3213.2	14.4
50°-60°	4481.2	20.1
60°-70°	5327.9	23.9
70°-80°	3137.8	14.1
80°-90°	663.5	3.0
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°	22332.0	100.0
0°-180°	22332.0	100.0

Coefficient of Utilization



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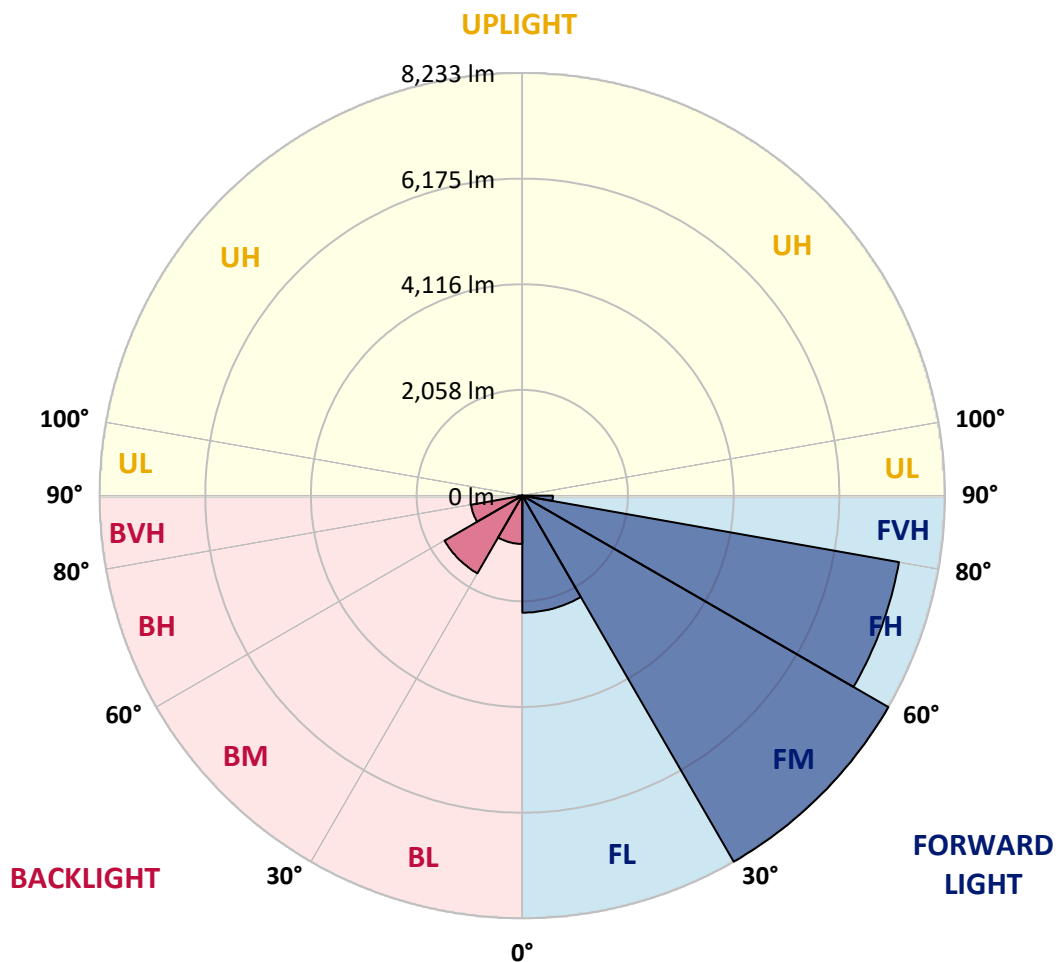
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2279.5	10.2			
FM	(30°-60°)	8233.0	36.9			
FH	(60°-80°)	7450.0	33.4			G3/7500
FVH	(80°-90°)	594.9	2.7			G4/750
BL	(0°-30°)	941.5	4.2	B2/1000		
BM	(30°-60°)	1748.8	7.8	B2/2500		
BH	(60°-80°)	1015.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	68.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6977.0	6977.0	6977.0	6977.0	6977.0	6977.0	6977.0	6977.0	6977.0	6977.0	6977.0
2.5°	7522.7	7532.7	7597.1	7784.7	7913.6	7960.9	7993.8	7932.2	7872.1	7726.0	7505.5
5°	7499.8	7558.5	7726.0	8147.0	8479.3	8622.5	8665.5	8480.7	8175.7	7800.5	7349.4
7.5°	7061.5	7140.3	7398.1	8104.1	8689.8	9024.9	8980.5	8646.8	8096.9	7428.1	6798.0
10°	6541.7	6629.1	6939.8	7793.3	8548.0	9009.2	9009.2	8602.4	7872.1	7077.3	6351.2
12.5°	6129.3	6220.9	6576.1	7474.0	8253.0	8689.8	8762.8	8413.4	7710.3	6855.3	6057.7
15°	5993.2	6082.0	6464.4	7280.6	7940.8	8207.2	8231.5	8117.0	7631.5	6871.1	6044.8
17.5°	6162.2	6276.8	6663.4	7337.9	7654.4	7670.2	7688.8	7779.0	7640.1	7158.9	6305.4
20°	6650.5	6773.7	7177.5	7522.7	7403.8	7240.5	7250.6	7482.6	7741.8	7634.4	6928.4
22.5°	7355.1	7462.5	7876.4	7847.7	7297.8	6961.3	6891.1	7214.8	7892.1	8227.2	7591.4
25°	8115.5	8241.6	8717.0	8330.4	7327.9	6795.2	6750.8	7057.2	8048.2	8781.5	8357.6
27.5°	8986.2	9109.4	9484.6	8817.3	7485.4	6782.3	6729.3	7042.9	8188.6	9294.1	9089.3
30°	9633.5	9746.7	10001.6	9226.8	7678.8	6868.2	6802.3	7156.1	8308.9	9645.0	9802.5
32.5°	10141.9	10259.3	10398.3	9481.7	7933.7	7024.3	6902.6	7362.3	8466.4	9912.8	10331.0
35°	10671.8	10810.7	10800.7	9708.0	8171.4	7204.7	7085.9	7660.1	8714.1	10146.2	11001.2
37.5°	11343.4	11399.3	11327.7	9911.4	8456.4	7529.8	7463.9	8102.7	9066.4	10428.3	11784.5
40°	12025.1	12136.8	11768.8	10157.7	8802.9	8141.3	8134.2	8757.1	9484.6	10759.1	12543.5
42.5°	12609.4	12703.9	12181.2	10372.5	9222.5	8887.4	8941.8	9635.0	10033.1	11142.9	13153.6
45°	13049.0	13133.5	12562.1	10580.1	9775.3	9749.5	10070.3	10575.8	10724.8	11488.1	13511.6
47.5°	13422.8	13504.4	12827.1	10895.2	10458.4	10779.2	11337.7	11556.8	11316.2	11685.7	13912.6
50°	13737.8	13762.2	13008.9	11270.4	11306.2	12040.8	12582.2	12723.9	11900.5	11969.2	14260.6
52.5°	14065.8	14034.3	13322.5	11743.0	12222.7	13238.1	13631.9	13779.4	12460.4	12318.7	14767.5
55°	14800.4	14830.5	14025.7	12338.7	13149.3	14413.8	14932.2	14790.4	13080.5	12961.7	15411.9
57.5°	15688.3	15662.6	15015.3	13271.0	14093.0	15507.9	15894.5	15666.8	13908.3	13845.3	16065.0
60°	16033.5	16067.8	15843.0	14273.4	15023.8	16465.9	16861.2	16507.5	14900.7	14872.0	16557.6
62.5°	15686.9	15880.2	16032.0	15165.6	15817.2	17170.5	17562.9	17159.1	15936.1	16143.7	16902.7
65°	14996.6	15038.2	15555.1	15921.8	16199.6	17286.5	17491.3	17276.5	16801.0	17302.3	16887.0
67.5°	14100.2	14136.0	14741.7	16169.5	15706.9	15969.0	16112.2	16049.2	16533.2	17699.0	16109.4
70°	13246.6	13218.0	13858.1	15538.0	13673.4	13275.3	13394.2	13196.5	14266.3	16729.4	14584.2
72.5°	11585.4	11688.6	12375.9	13782.2	10826.4	10179.2	10438.4	9927.1	10972.5	14327.9	11837.5
75°	9075.0	9099.4	10246.5	11566.8	8167.1	7146.0	7496.9	7283.5	8404.8	11952.1	8174.3
77.5°	6283.9	6229.5	7462.5	8834.4	5824.2	5231.4	5237.1	5135.4	5868.6	8800.1	5553.6
80°	3991.2	3908.1	4671.4	5457.6	4002.6	4281.9	4141.5	4137.3	3820.8	5429.0	3358.2
82.5°	2156.7	2248.3	2951.5	3421.2	2871.3	3309.5	3033.1	2944.3	2622.1	3398.3	2148.1
85°	982.4	1068.3	1573.8	2327.1	2181.0	2205.4	1473.6	1738.5	2169.6	2759.6	1147.1
87.5°	95.9	123.2	325.1	1098.4	744.7	587.1	219.1	422.5	545.6	981.0	91.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6977.0	6977.0	6977.0	6977.0	6977.0	6977.0	6977.0	6977.0	6977.0	6977.0	6977.0
2.5°	7415.3	7340.8	7087.3	6878.2	6656.3	6487.3	6266.7	6119.2	6017.6	5864.3	5845.7
5°	7074.4	6892.6	6451.5	6001.8	5613.7	5321.6	5025.1	4753.0	4592.6	4542.5	4478.1
7.5°	6500.2	6193.7	5626.6	5111.1	4665.7	4230.3	3895.2	3657.5	3498.5	3405.5	3293.8
10°	6027.6	5672.4	4982.2	4350.6	3984.0	3713.4	3418.4	3163.4	2967.2	2799.7	2708.0
12.5°	5709.7	5308.7	4532.5	4019.8	3736.3	3448.4	3103.3	2816.9	2527.6	2337.1	2255.5
15°	5613.7	5189.8	4393.6	3855.1	3448.4	3071.8	2685.1	2311.4	2024.9	1844.5	1784.4
17.5°	5848.6	5335.9	4392.2	3636.0	3110.5	2660.8	2165.3	1814.4	1520.9	1386.2	1343.3
20°	6286.8	5616.6	4405.0	3419.8	2743.8	2110.9	1575.3	1287.4	1147.1	1089.8	1068.3
22.5°	6898.3	6044.8	4443.7	3206.4	2342.9	1621.1	1180.0	1034.0	983.8	973.8	969.5
25°	7651.6	6574.6	4574.0	3014.5	2004.9	1237.3	986.7	920.8	892.2	882.2	880.7
27.5°	8344.7	7259.2	4731.6	2849.8	1678.4	1066.9	892.2	836.3	807.7	806.3	809.1
30°	8970.5	7832.0	4863.3	2665.1	1430.6	948.0	830.6	774.7	747.5	746.1	754.7
32.5°	9511.8	8303.1	4960.7	2483.2	1293.2	875.0	774.7	714.6	691.7	687.4	691.7
35°	10090.4	8772.9	4916.3	2341.4	1214.4	814.8	733.2	674.5	647.3	634.4	634.4
37.5°	10750.5	9256.9	4840.4	2224.0	1178.6	764.7	697.4	640.1	612.9	600.0	598.6
40°	11470.9	9740.9	4735.9	2119.5	1142.8	734.7	673.1	612.9	580.0	567.1	564.2
42.5°	12106.7	10154.8	4649.9	2050.7	1084.1	740.4	651.6	592.9	551.3	534.2	532.7
45°	12659.5	10571.5	4634.2	2010.6	1035.4	731.8	645.9	577.1	528.4	509.8	507.0
47.5°	13092.0	11005.5	4724.4	1987.7	982.4	686.0	683.1	567.1	508.4	488.3	485.5
50°	13619.0	11621.2	4930.6	1940.5	933.7	643.0	721.8	565.7	492.6	466.9	459.7
52.5°	14320.7	12423.2	5209.9	1856.0	863.5	602.9	688.8	565.7	474.0	448.2	439.6
55°	15381.9	13445.7	5483.4	1737.1	764.7	549.9	621.5	548.5	446.8	423.9	418.2
57.5°	16085.0	14193.2	5658.1	1572.4	641.6	511.2	535.6	521.3	419.6	395.3	395.3
60°	16120.8	14393.7	5575.0	1364.8	564.2	475.4	465.4	525.6	395.3	369.5	366.6
62.5°	15708.4	13902.5	5142.6	1178.6	522.7	436.8	421.0	461.1	370.9	345.1	340.8
65°	15063.9	12649.5	4392.2	1089.8	499.8	402.4	379.5	378.1	345.1	320.8	315.1
67.5°	13879.6	11054.1	3608.8	1038.3	488.3	363.7	342.3	335.1	315.1	295.0	292.1
70°	12133.9	9258.3	2894.2	1016.8	482.6	323.6	306.5	297.9	280.7	264.9	263.5
72.5°	9440.2	7509.8	2388.7	1002.4	479.7	286.4	267.8	256.3	246.3	232.0	232.0
75°	6780.9	5524.9	1823.0	903.6	443.9	246.3	226.3	219.1	204.8	193.3	196.2
77.5°	4274.7	3720.5	1200.1	664.5	343.7	197.6	180.4	176.1	164.7	148.9	159.0
80°	2887.1	2616.4	700.3	418.2	216.2	144.6	138.9	137.5	124.6	107.4	108.8
82.5°	1964.8	1927.6	363.7	237.7	124.6	84.5	81.6	84.5	70.2	57.3	57.3
85°	767.6	1048.3	171.8	93.1	40.1	12.9	18.6	20.0	11.5	5.7	7.2
87.5°	14.3	107.4	4.3	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°	6977.0	6977.0	6977.0	6977.0	6977.0	6977.0	6977.0	6977.0	6977.0	6977.0	6977.0
2.5°	5817.1	5804.2	5825.7	5734.0	5752.6	5787.0	5804.2	5814.2	5956.0	5923.0	6013.3
5°	4538.2	4525.3	4608.4	4619.9	4662.8	4654.2	4695.8	4705.8	4757.3	4776.0	4902.0
7.5°	3300.9	3356.8	3451.3	3500.0	3573.0	3595.9	3574.4	3627.4	3520.0	3597.4	3620.3
10°	2652.2	2584.9	2544.8	2656.5	2670.8	2776.8	2733.8	2699.5	2762.5	2765.3	2825.5
12.5°	2208.3	2063.6	1967.7	1999.2	2033.5	2079.4	2086.5	2155.3	2201.1	2244.1	2279.9
15°	1731.4	1681.3	1593.9	1550.9	1599.6	1618.2	1662.6	1719.9	1768.6	1781.5	1830.2
17.5°	1329.0	1337.6	1323.2	1297.5	1327.5	1341.8	1344.7	1346.1	1359.0	1350.4	1422.0
20°	1069.8	1099.8	1135.6	1141.4	1151.4	1158.5	1145.7	1097.0	1098.4	1128.5	1151.4
22.5°	968.1	973.8	1013.9	1026.8	1058.3	1045.4	1008.2	985.3	982.4	989.6	1001.0
25°	887.9	896.5	925.1	945.2	969.5	946.6	919.4	897.9	895.0	902.2	913.7
27.5°	816.3	829.2	854.9	875.0	897.9	876.4	850.6	832.0	830.6	829.2	836.3
30°	759.0	773.3	791.9	814.8	830.6	812.0	787.6	777.6	776.2	773.3	776.2
32.5°	701.7	724.6	743.2	754.7	770.5	756.1	737.5	731.8	721.8	713.2	708.9
35°	637.3	661.6	690.3	704.6	720.3	706.0	693.1	668.8	651.6	650.2	653.0
37.5°	600.0	610.1	633.0	657.3	673.1	665.9	641.6	617.2	612.9	612.9	615.8
40°	567.1	571.4	581.4	612.9	641.6	620.1	590.0	582.9	582.9	581.4	582.9
42.5°	534.2	538.5	538.5	562.8	608.6	574.3	551.3	551.3	551.3	552.8	557.1
45°	504.1	505.5	504.1	521.3	564.2	535.6	519.8	524.1	527.0	529.9	532.7
47.5°	478.3	479.7	478.3	492.6	514.1	502.7	494.1	499.8	505.5	509.8	512.7
50°	455.4	454.0	456.8	465.4	475.4	478.3	472.6	481.2	484.0	489.8	496.9
52.5°	435.3	433.9	436.8	441.1	455.4	455.4	455.4	462.6	468.3	474.0	484.0
55°	412.4	413.9	418.2	423.9	442.5	439.6	441.1	446.8	452.5	461.1	466.9
57.5°	391.0	393.8	399.5	408.1	426.8	425.3	426.8	429.6	436.8	441.1	446.8
60°	366.6	372.3	379.5	385.2	403.8	402.4	409.6	415.3	419.6	419.6	422.5
62.5°	342.3	350.9	358.0	362.3	382.4	383.8	393.8	398.1	401.0	398.1	402.4
65°	317.9	330.8	333.7	339.4	359.4	360.9	372.3	382.4	379.5	376.6	383.8
67.5°	293.6	309.3	307.9	315.1	335.1	338.0	348.0	365.2	359.4	356.6	362.3
70°	266.4	277.8	279.3	283.5	310.8	306.5	322.2	338.0	333.7	335.1	335.1
72.5°	236.3	246.3	246.3	254.9	283.5	276.4	289.3	306.5	306.5	305.0	305.0
75°	200.5	206.2	211.9	224.8	254.9	246.3	254.9	270.7	273.5	270.7	270.7
77.5°	161.8	170.4	173.3	190.5	211.9	210.5	219.1	226.3	232.0	229.1	229.1
80°	114.6	123.2	134.6	153.2	166.1	170.4	174.7	180.4	183.3	183.3	186.2
82.5°	64.4	77.3	87.4	106.0	111.7	133.2	131.8	136.0	131.8	116.0	128.9
85°	14.3	27.2	38.7	48.7	55.9	77.3	81.6	91.7	75.9	70.2	70.2
87.5°	0.0	0.0	0.0	0.0	0.0	11.5	22.9	31.5	27.2	22.9	22.9
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°	6977.0	6977.0	6977.0	6977.0	6977.0	6977.0	6977.0	6977.0	6977.0	6977.0
2.5°	6089.2	6213.8	6364.1	6623.3	6805.2	7001.4	7199.0	7409.5	7465.4	7522.7
5°	4936.3	5181.2	5314.4	5662.4	6027.6	6491.6	6871.1	7286.4	7459.7	7499.8
7.5°	3739.1	3905.3	4254.7	4607.0	5059.5	5546.4	6127.8	6775.1	6977.0	7061.5
10°	2964.4	3190.7	3497.1	3875.2	4271.9	4796.0	5451.9	6208.0	6494.4	6541.7
12.5°	2523.3	2775.4	3109.0	3508.6	3883.8	4279.0	4940.6	5721.1	6027.6	6129.3
15°	2017.8	2322.8	2708.0	3129.1	3537.2	3969.7	4639.9	5520.6	5874.4	5993.2
17.5°	1585.3	1831.6	2248.3	2705.2	3189.2	3736.3	4576.9	5616.6	6051.9	6162.2
20°	1213.0	1389.1	1740.0	2222.6	2789.7	3505.7	4592.6	5978.9	6500.2	6650.5
22.5°	1048.3	1138.5	1351.9	1811.6	2446.0	3305.2	4657.1	6475.8	7104.5	7355.1
25°	949.5	996.7	1117.0	1417.7	2118.0	3110.5	4804.6	7144.6	7949.4	8115.5
27.5°	865.0	899.3	973.8	1190.1	1820.2	2930.0	4976.4	7886.4	8738.5	8986.2
30°	784.8	830.6	900.8	1056.9	1629.7	2765.3	5192.7	8487.9	9403.0	9633.5
32.5°	723.2	769.0	833.5	963.8	1467.9	2592.0	5321.6	9016.3	9945.7	10141.9
35°	673.1	711.7	779.0	889.3	1344.7	2460.3	5295.8	9435.9	10471.3	10671.8
37.5°	637.3	670.2	737.5	819.1	1251.6	2322.8	5282.9	9990.1	11111.4	11343.4
40°	604.3	638.7	700.3	773.3	1158.5	2161.0	5290.1	10540.0	11793.1	12025.1
42.5°	578.6	617.2	667.3	760.4	1062.6	2030.7	5290.1	11018.3	12386.0	12609.4
45°	557.1	598.6	647.3	759.0	986.7	1931.9	5254.3	11429.4	12858.6	13049.0
47.5°	538.5	584.3	654.5	733.2	968.1	1860.3	5222.8	11758.7	13243.8	13422.8
50°	525.6	580.0	696.0	703.1	973.8	1838.8	5374.6	12174.0	13583.2	13737.8
52.5°	515.5	581.4	694.6	658.8	963.8	1853.1	5691.0	12822.8	14054.3	14065.8
55°	495.5	580.0	658.8	608.6	922.3	1877.4	6097.8	13765.1	14791.9	14800.4
57.5°	475.4	564.2	611.5	565.7	837.8	1877.4	6587.5	14657.2	15681.2	15688.3
60°	455.4	587.1	537.0	528.4	727.5	1843.1	7104.5	15049.6	15960.4	16033.5
62.5°	435.3	591.4	479.7	495.5	647.3	1760.0	7489.7	14615.7	15582.4	15686.9
65°	412.4	476.9	442.5	461.1	605.8	1621.1	7368.0	13820.9	14872.0	14996.6
67.5°	385.2	403.8	402.4	425.3	591.4	1416.3	6726.4	12815.6	14107.3	14100.2
70°	352.3	362.3	366.6	391.0	564.2	1257.4	5605.1	11511.0	13086.3	13246.6
72.5°	317.9	326.5	330.8	352.3	537.0	1167.1	4350.6	9713.7	11334.8	11585.4
75°	280.7	286.4	292.1	310.8	508.4	1034.0	3099.0	7415.3	8681.2	9075.0
77.5°	242.0	242.0	249.2	267.8	428.2	853.5	2079.4	5201.3	5881.5	6283.9
80°	196.2	197.6	194.8	214.8	315.1	584.3	1181.5	3474.2	3913.8	3991.2
82.5°	150.4	146.1	147.5	157.5	234.9	398.1	630.1	2158.1	2199.7	2156.7
85°	94.5	94.5	91.7	103.1	150.4	207.7	343.7	1321.8	1032.5	982.4
87.5°	38.7	31.5	35.8	41.5	71.6	84.5	134.6	272.1	104.5	95.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)