

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: P298885

Luminaire Tested: **GLNA-AF-06-LED-E1-SLL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-06-LED-E1-SLL-7027
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Left OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27094.3 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

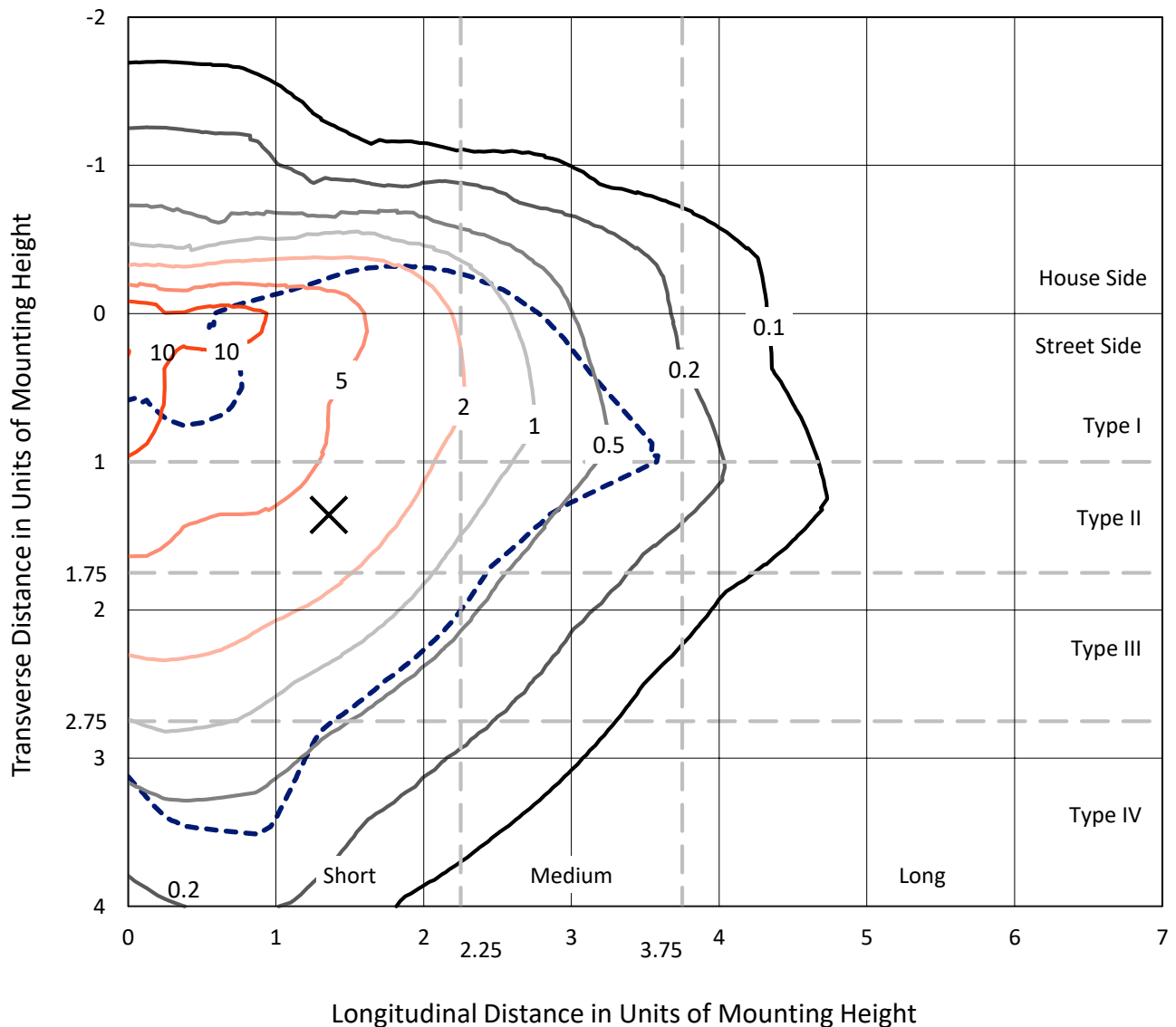
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

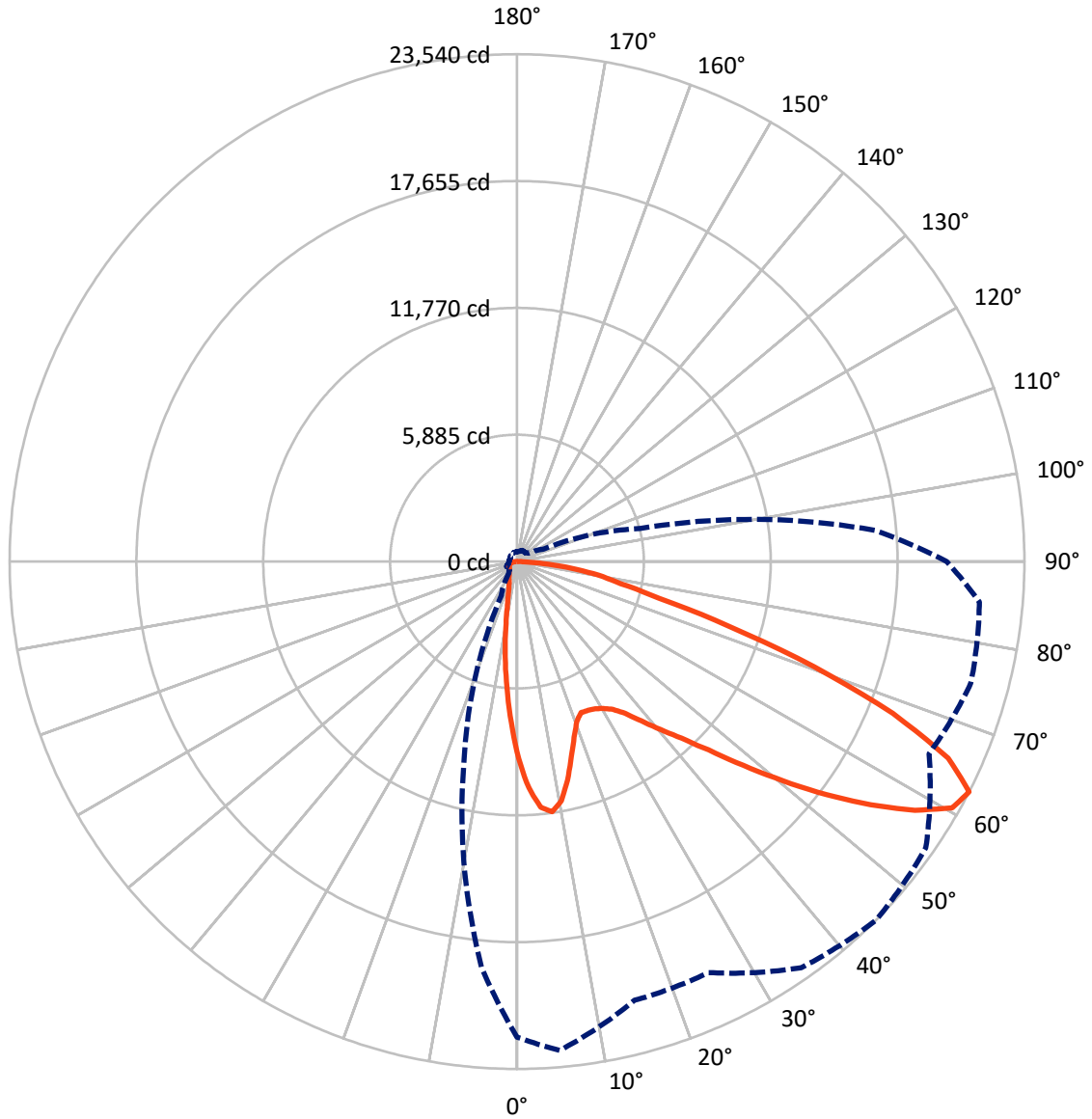
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4483.7	0.0	4483.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	22610.6	0.0	22610.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	27094.3	0.0	27094.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.4	2.5
10°-20°	1221.9	4.5
20°-30°	1781.6	6.6
30°-40°	2743.9	10.1
40°-50°	4038.3	14.9
50°-60°	5923.3	21.9
60°-70°	6621.4	24.4
70°-80°	3241.7	12.0
80°-90°	855.9	3.2
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°	27094.3	100.0
0°-180°	27094.3	100.0



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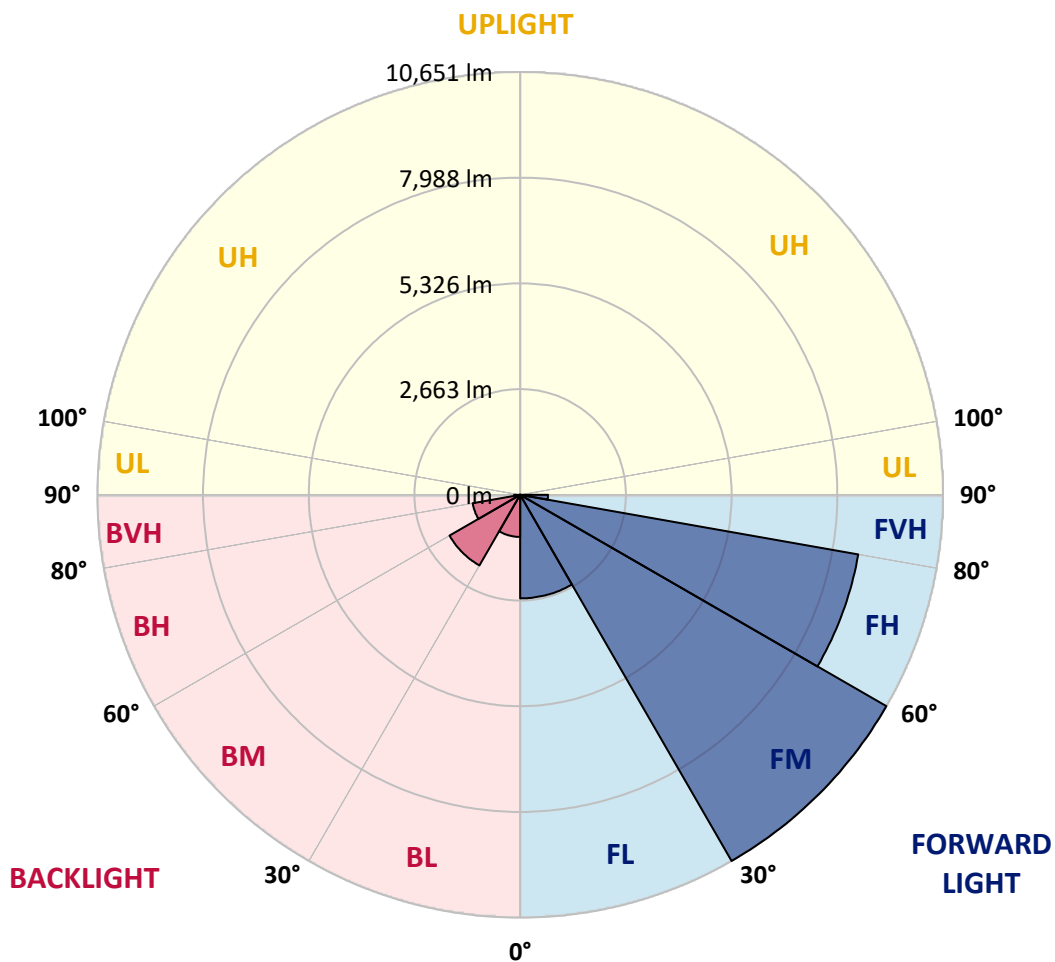
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2609.1	9.6			
FM	(30°-60°)	10651.0	39.3			
FH	(60°-80°)	8647.6	31.9			G4/12000
FVH	(80°-90°)	702.9	2.6			G4/750
BL	(0°-30°)	1060.8	3.9	B3/2500		
BM	(30°-60°)	2054.4	7.6	B2/2500		
BH	(60°-80°)	1215.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	153.0	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2
2.5°	9511.1	9663.4	9959.7	10181.2	10451.5	10513.8	10600.4	10515.3	10364.9	10165.2	10100.0
5°	8943.9	9268.8	9987.8	10621.2	11184.0	11446.0	11519.5	11302.9	10866.8	10293.4	9943.3
7.5°	8033.9	8495.7	9469.5	10402.2	11231.4	11721.6	11709.6	11207.7	10405.1	9470.9	8909.6
10°	7248.7	7776.2	8893.6	9936.1	10816.0	11291.3	11107.6	10466.5	9508.1	8432.8	7824.1
12.5°	6809.7	7326.6	8459.9	9506.7	10242.6	10406.5	10266.3	9637.7	8735.0	7648.1	7114.8
15°	6733.3	7301.4	8287.3	9139.2	9551.7	9409.0	9241.7	8960.3	8322.6	7394.7	6839.2
17.5°	7063.1	7688.2	8485.5	8883.0	8812.9	8563.9	8516.5	8547.9	8394.6	7676.1	7036.0
20°	7694.5	8444.9	8957.4	8762.6	8251.5	7908.7	7920.8	8399.0	8853.0	8389.8	7658.3
22.5°	8580.3	9437.1	9637.7	8826.4	8014.6	7608.0	7706.6	8481.2	9584.5	9432.7	8498.6
25°	9727.2	10508.0	10363.5	9058.5	8038.3	7645.2	7724.0	8764.0	10448.1	10475.2	9538.6
27.5°	10838.3	11562.6	10972.2	9367.0	8136.9	7733.2	7837.6	9208.9	11273.4	11607.0	10727.1
30°	11705.2	12209.0	11213.5	9648.4	8330.3	7904.4	8033.9	9631.9	11649.1	12371.0	11641.4
32.5°	12423.2	12784.9	11597.9	9997.0	8686.2	8173.7	8401.9	10145.9	12189.7	13098.2	12536.3
35°	13340.4	13443.4	12076.1	10385.7	9235.9	8643.2	8926.0	10649.2	12705.1	13832.1	13418.3
37.5°	14416.2	14283.7	12527.2	10917.6	9946.7	9377.1	9611.1	11201.9	13129.1	14664.7	14319.0
40°	15479.5	15160.3	13093.8	11742.4	10983.3	10242.6	10519.6	11791.7	13525.6	15498.8	15199.5
42.5°	16383.6	15911.2	13651.8	12649.5	11947.9	11197.5	11528.2	12386.0	13903.7	16210.5	15963.4
45°	17052.3	16465.3	14183.7	13520.8	13278.0	12466.2	12622.9	13066.3	14313.2	16805.2	16592.0
47.5°	17649.4	17022.3	14785.1	14399.8	14441.4	14116.4	13864.5	13858.7	14796.3	17290.7	17186.2
50°	18449.1	17795.4	15431.6	15304.9	16186.8	15970.7	15415.1	14783.7	15406.4	17841.9	17829.8
52.5°	19551.5	19020.2	16221.1	16280.6	17816.7	17957.9	17269.4	15895.3	16362.3	18852.9	18781.8
55°	20855.1	20544.7	17297.0	17402.4	19815.1	19916.6	19232.4	17284.4	17768.9	20317.4	20119.2
57.5°	21871.9	21806.6	18476.2	18748.9	21307.6	21763.6	21135.0	18893.5	19353.3	21550.4	21052.8
60°	22277.1	22594.2	19731.9	20107.1	22688.5	23192.8	22642.1	20306.3	20757.9	22061.4	20989.0
62.5°	22058.5	22766.9	21069.3	21037.8	22996.5	23540.0	23152.7	21093.0	21799.4	21533.9	19927.2
65°	21047.0	22146.0	21845.3	20798.0	21942.0	21986.5	21861.2	20741.4	22045.0	19867.3	17874.3
67.5°	18843.7	20425.7	20823.2	18743.1	19097.0	18806.9	18596.6	18817.1	20763.7	17369.5	15022.1
70°	15348.4	17728.7	17918.7	14991.1	14830.1	14634.8	14216.5	15427.2	18236.4	14235.9	11919.9
72.5°	11285.5	13787.7	14372.7	10994.9	10250.3	10290.0	9959.7	11625.9	14827.2	10574.8	8899.4
75°	7721.1	9983.4	11245.4	7671.8	6778.8	6794.7	6752.6	8238.0	11809.6	7356.1	6659.3
77.5°	5640.6	7132.7	8481.2	5157.6	5007.2	4914.8	4892.6	5763.9	9054.1	5341.3	5171.1
80°	4526.1	5269.7	5696.7	3574.6	3843.9	3836.6	3712.8	3963.3	5912.8	3906.7	3867.6
82.5°	3139.9	4049.8	4615.6	2801.4	2594.5	2551.0	2581.4	2951.8	4179.4	2670.4	2539.4
85°	1656.5	2689.7	4571.1	2482.8	1540.0	1228.6	1528.4	2417.0	3621.0	1415.2	1238.7
87.5°	211.8	777.5	3026.3	990.7	607.8	327.3	725.7	1361.1	2325.2	288.7	251.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2
2.5°	9931.7	9733.5	9474.3	9234.0	8985.5	8737.9	8414.9	8212.4	8072.6	8045.5	7986.6
5°	9690.4	9031.9	8534.4	8104.0	7713.9	7162.2	6857.1	6603.7	6468.3	6455.3	6422.4
7.5°	8577.4	7668.9	6997.3	6388.1	5835.4	5390.1	4898.4	4669.7	4575.4	4597.7	4619.9
10°	7419.9	6404.5	5632.8	5010.1	4523.2	4148.0	3753.5	3487.0	3301.9	3264.6	3257.4
12.5°	6574.2	5460.2	4711.3	4271.3	3895.1	3541.7	3123.5	2808.7	2569.4	2487.2	2432.5
15°	6216.4	4998.5	4213.8	3739.9	3324.1	2875.9	2487.2	2157.9	1937.9	1866.3	1826.2
17.5°	6292.8	4870.4	3871.0	3264.6	2733.3	2265.2	1775.4	1493.6	1361.1	1327.2	1327.2
20°	6692.2	4846.7	3587.6	2827.1	2163.7	1621.7	1219.9	1058.9	1015.8	1011.5	1023.1
22.5°	7252.1	4930.3	3376.8	2447.5	1681.6	1184.1	950.1	890.6	871.3	876.1	889.2
25°	8086.2	5211.7	3223.5	2109.1	1319.5	969.4	847.1	811.8	802.6	814.7	831.1
27.5°	9074.9	5493.1	3127.8	1854.2	1114.0	886.3	805.5	768.8	774.6	789.6	804.1
30°	9943.3	5724.2	2977.4	1672.9	1050.2	890.6	805.5	755.2	749.4	752.3	756.7
32.5°	10722.7	5880.4	2801.4	1499.8	905.6	791.0	752.3	745.1	711.7	699.6	701.6
35°	11394.3	5880.4	2696.0	1398.8	811.8	701.6	639.2	602.0	585.0	586.5	603.4
37.5°	12042.2	5762.4	2643.8	1341.7	761.0	667.2	612.1	579.2	557.0	552.6	555.5
40°	12613.7	5591.3	2584.3	1318.0	722.4	646.4	594.7	567.2	543.5	536.2	537.7
42.5°	13072.6	5452.5	2518.6	1287.1	698.2	631.5	582.1	558.4	531.9	524.1	522.7
45°	13568.6	5406.6	2432.5	1224.2	710.3	632.9	579.2	554.1	527.0	518.3	515.4
47.5°	14222.3	5551.1	2343.1	1149.8	735.9	640.6	583.6	554.1	525.6	518.3	515.4
50°	15045.7	5890.6	2229.4	1041.0	710.3	661.4	582.1	549.3	525.6	518.3	512.5
52.5°	16103.7	6349.4	2081.0	916.2	695.3	711.7	579.2	540.6	518.3	508.2	497.5
55°	17388.8	6724.6	1903.1	813.3	661.4	698.2	574.9	530.4	506.7	491.7	482.5
57.5°	18330.2	6860.0	1675.8	746.5	613.6	675.9	568.6	516.9	491.7	479.6	468.0
60°	18144.1	6597.9	1483.4	704.5	585.0	610.7	564.3	504.8	478.2	469.5	458.4
62.5°	16653.4	5912.8	1359.6	685.1	567.2	557.0	568.6	493.2	466.6	456.9	454.0
65°	14417.7	4901.3	1310.8	680.8	552.6	525.6	529.0	479.6	452.6	445.3	442.4
67.5°	11892.8	3956.0	1267.8	695.3	533.3	503.3	488.8	461.7	439.0	431.8	426.0
70°	9378.6	3290.3	1247.9	686.6	509.6	481.1	465.1	442.4	423.1	415.3	411.0
72.5°	7552.4	2779.2	1237.3	677.4	478.2	451.1	436.1	416.8	396.0	393.1	388.7
75°	6391.5	2185.0	1133.8	649.3	442.4	415.3	405.2	387.3	366.5	366.5	363.6
77.5°	4930.3	1580.1	942.8	574.9	405.2	375.2	366.5	353.0	329.3	333.6	332.2
80°	3641.8	1030.8	737.3	476.7	359.2	330.7	325.9	312.8	287.2	293.5	293.5
82.5°	2494.9	675.9	530.4	390.2	306.5	280.0	280.0	266.4	238.4	241.3	250.5
85°	1252.8	465.1	396.0	302.2	238.4	224.8	224.8	214.7	186.1	187.6	199.7
87.5°	381.5	280.0	262.1	216.1	171.2	168.3	160.5	153.3	135.4	133.9	141.7
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2
2.5°	7895.2	7810.1	7708.1	7481.3	7405.4	7400.5	7469.7	7397.6	7535.0	7476.9	7540.8
5°	6366.8	6284.1	6169.1	5880.4	5704.4	5585.0	5528.9	5362.1	5482.5	5394.5	5468.0
7.5°	4682.8	4702.1	4626.2	4456.5	4073.5	3881.6	3768.4	3666.9	3754.9	3745.7	3885.9
10°	3291.7	3343.4	3290.3	3119.1	2808.7	2703.3	2724.1	2764.2	2879.3	2938.3	3154.4
12.5°	2369.7	2366.8	2332.4	2179.2	1975.1	1986.7	2071.8	2141.4	2247.3	2310.2	2530.2
15°	1769.1	1742.6	1727.6	1602.3	1486.3	1511.9	1553.5	1560.8	1628.0	1665.2	1844.1
17.5°	1337.4	1350.9	1366.9	1277.9	1189.9	1173.5	1141.1	1100.5	1120.3	1127.5	1216.5
20°	1061.8	1115.4	1156.1	1093.2	1004.2	955.9	914.3	887.7	887.7	886.3	911.4
22.5°	927.8	966.5	1010.0	966.5	886.3	844.2	820.5	799.7	796.8	796.8	820.5
25°	855.3	883.4	924.9	895.5	835.5	804.1	781.8	755.2	745.1	741.7	758.1
27.5°	819.1	831.1	851.9	824.9	774.6	759.6	753.8	730.1	716.1	708.8	725.7
30°	758.1	755.2	756.7	730.1	689.5	688.0	698.2	703.0	698.2	696.7	722.4
32.5°	701.6	695.3	693.8	670.1	632.9	624.2	632.9	642.1	652.2	667.2	696.7
35°	630.0	645.0	653.7	632.9	587.9	561.4	551.2	534.8	525.6	525.6	559.9
37.5°	573.4	607.8	621.3	602.0	552.6	515.4	497.5	494.6	496.1	501.9	534.8
40°	554.1	579.2	590.8	572.0	522.7	488.8	478.2	475.3	478.2	487.4	519.8
42.5°	542.0	559.9	558.4	534.8	494.6	470.9	465.1	461.7	465.1	473.8	509.6
45°	531.9	543.5	531.9	503.3	466.6	454.0	455.5	454.0	456.9	466.6	500.4
47.5°	522.7	527.0	512.5	484.0	445.3	442.4	448.2	452.6	455.5	463.7	499.0
50°	509.6	509.6	496.1	466.6	427.4	428.9	436.1	446.8	448.2	456.9	485.9
52.5°	493.2	491.7	482.5	454.0	412.4	416.8	416.8	428.9	431.8	442.4	472.4
55°	479.6	476.7	472.4	445.3	399.4	406.6	402.3	406.6	413.9	424.5	456.9
57.5°	468.0	461.7	461.7	437.6	388.7	391.6	381.5	387.3	396.0	405.2	439.0
60°	455.5	449.7	452.6	427.4	372.3	369.4	365.0	376.7	380.0	390.2	424.5
62.5°	442.4	437.6	439.0	415.3	360.7	353.0	353.0	363.6	365.0	380.0	412.4
65°	431.8	426.0	424.5	403.7	347.2	338.5	342.8	347.2	350.1	365.0	396.0
67.5°	421.6	409.5	409.5	393.1	332.2	323.0	332.2	330.7	335.6	348.6	373.8
70°	408.1	391.6	393.1	385.8	317.2	306.5	314.3	312.8	315.7	324.4	350.1
72.5°	387.3	373.8	376.7	373.8	302.2	287.2	290.1	290.1	290.1	297.8	324.4
75°	360.7	350.1	359.2	366.5	284.3	263.5	266.4	266.4	262.1	266.4	299.3
77.5°	327.3	321.5	351.5	341.4	263.5	238.4	238.4	235.5	226.8	232.6	267.9
80°	292.0	287.2	324.4	285.8	239.8	207.4	204.0	196.3	187.6	192.0	228.2
82.5°	254.8	250.5	272.7	219.0	207.4	171.2	163.9	150.4	141.7	146.0	178.4
85°	208.9	208.9	210.3	165.4	157.6	131.0	122.3	104.4	93.8	96.7	128.1
87.5°	148.9	153.3	141.7	113.1	93.8	73.0	67.2	56.6	47.4	55.1	67.2
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2
2.5°	7868.6	8032.5	8218.6	8456.5	8661.0	8995.6	9317.6	9511.1
5°	5883.3	6156.0	6494.9	6932.0	7338.7	7948.8	8555.2	8943.9
7.5°	4210.4	4502.4	4868.9	5413.8	5989.2	6767.6	7569.3	8033.9
10°	3484.1	3783.4	4091.4	4459.4	4930.3	5777.4	6724.6	7248.7
12.5°	2882.2	3202.3	3534.4	3921.7	4357.8	5114.5	6206.3	6809.7
15°	2205.8	2563.1	2954.7	3445.0	3991.3	4866.0	6078.2	6733.3
17.5°	1511.9	1911.3	2391.9	2996.8	3665.5	4785.3	6307.8	7063.1
20°	1041.0	1331.6	1845.5	2554.4	3358.9	4775.1	6748.3	7694.5
22.5°	871.3	1000.9	1376.1	2147.7	3127.8	4903.2	7432.5	8580.3
25°	805.5	883.4	1099.0	1794.8	2959.5	5198.2	8373.8	9727.2
27.5°	767.3	836.9	998.0	1564.1	2827.1	5540.5	9289.6	10838.3
30°	781.8	853.4	969.4	1446.2	2646.7	5826.2	10102.9	11705.2
32.5°	704.5	735.9	831.1	1341.7	2517.1	6066.1	10814.6	12423.2
35°	600.5	655.2	741.7	1292.9	2520.0	6227.1	11590.6	13340.4
37.5°	572.0	627.1	689.5	1275.0	2554.4	6398.7	12481.2	14416.2
40°	554.1	604.9	658.5	1264.9	2587.2	6554.9	13354.4	15479.5
42.5°	542.0	587.9	655.2	1228.6	2603.7	6695.1	14072.0	16383.6
45°	540.6	587.9	667.2	1192.8	2628.8	6845.5	14673.9	17052.3
47.5°	542.0	607.8	645.0	1149.8	2628.8	7096.9	15379.8	17649.4
50°	536.2	640.6	621.3	1088.9	2567.9	7573.6	16347.8	18449.1
52.5°	533.3	636.3	574.9	995.1	2462.0	8330.3	17588.5	19551.5
55°	525.6	613.6	542.0	855.3	2338.7	9155.7	18917.2	20855.1
57.5°	518.3	543.5	524.1	733.0	2147.7	9736.4	19831.5	21871.9
60°	580.7	475.3	509.6	673.0	1892.9	9895.4	19796.2	22277.1
62.5°	537.7	445.3	490.3	660.0	1714.5	9448.7	18881.4	22058.5
65°	421.6	426.0	470.9	698.2	1666.6	8265.1	17260.7	21047.0
67.5°	385.8	406.6	451.1	748.0	1671.5	6617.3	14839.3	18843.7
70°	363.6	385.8	428.9	773.1	1683.1	4933.2	11731.8	15348.4
72.5°	338.5	357.8	403.7	777.5	1605.2	3583.3	9042.5	11285.5
75°	308.0	325.9	367.9	677.4	1330.1	2485.7	6917.0	7721.1
77.5°	274.1	287.2	323.0	522.7	987.8	1590.7	5191.9	5640.6
80°	234.0	241.3	271.2	382.9	675.9	995.1	4107.9	4526.1
82.5°	187.6	190.5	210.3	287.2	439.0	639.2	2751.2	3139.9
85°	132.5	132.5	144.6	208.9	299.3	405.2	1493.6	1656.5
87.5°	62.4	63.8	63.8	114.6	156.2	206.0	344.3	211.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)