

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: P298892

Luminaire Tested: **GLNA-AF-07-LED-E1-SLL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298892
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-07-LED-E1-SLL-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K 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: 35672.6 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

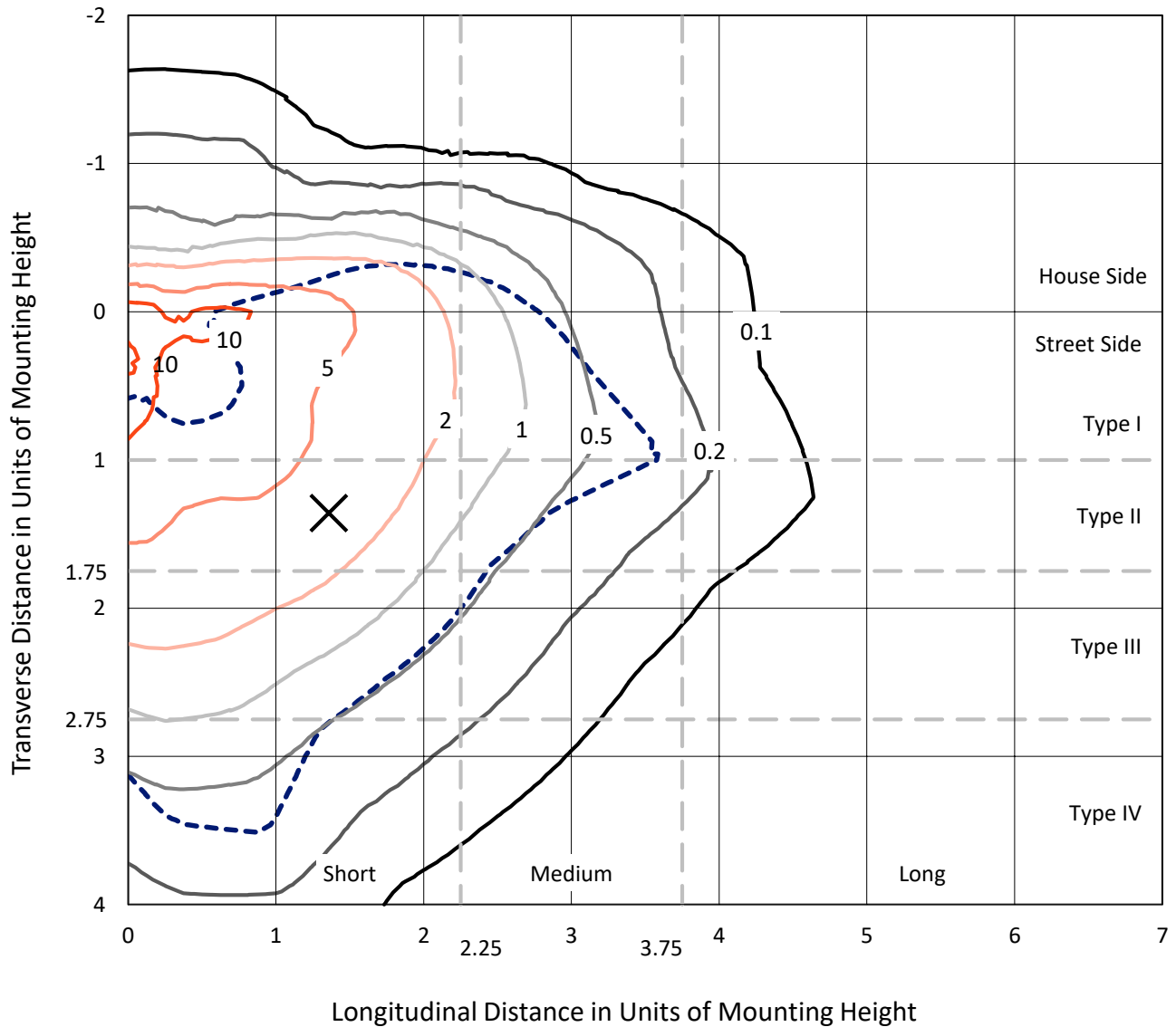
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

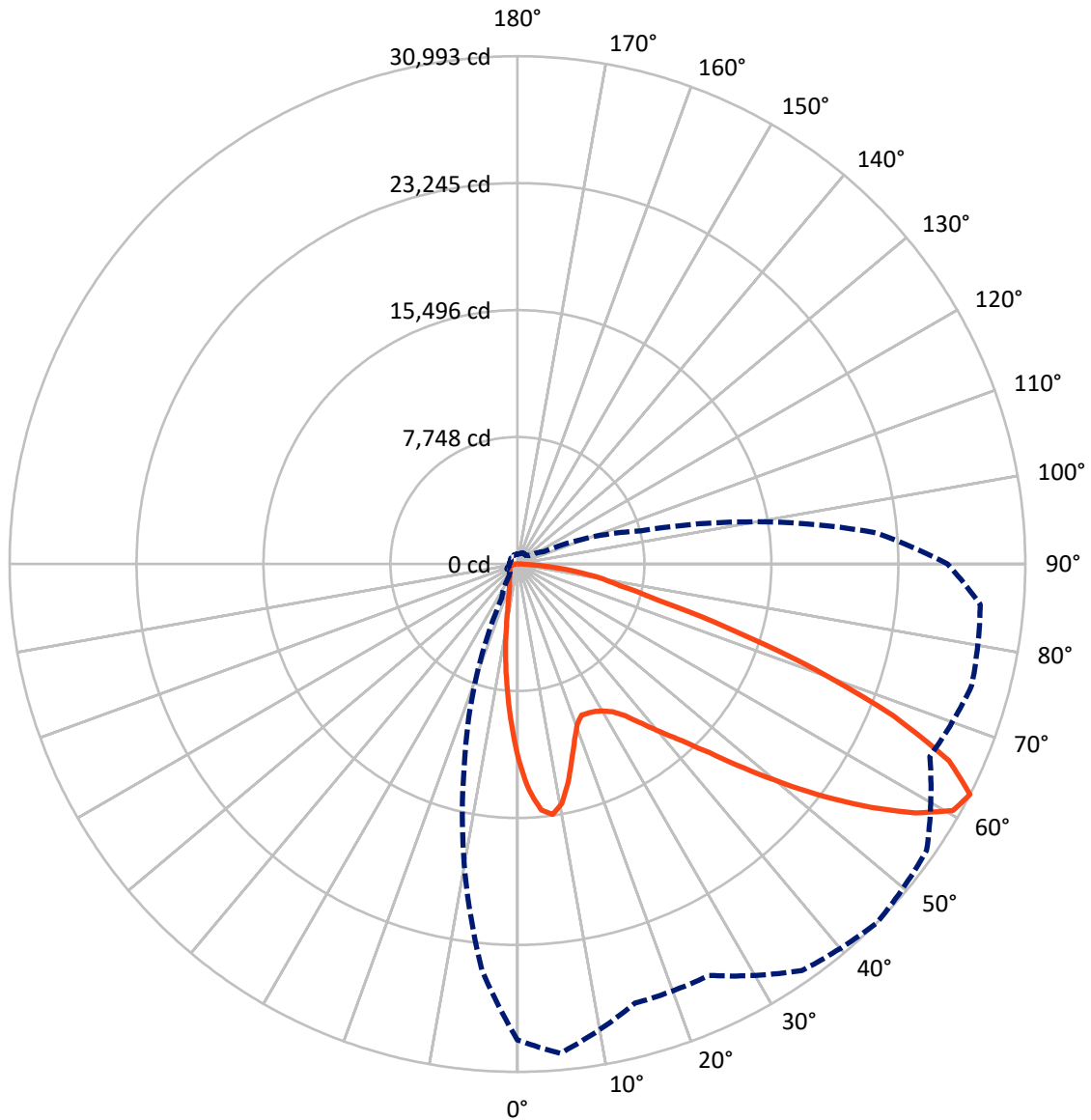
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.8 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	5903.3	0.0	5903.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	29769.3	0.0	29769.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	35672.6	0.0	35672.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	877.3	2.5
10°-20°	1608.8	4.5
20°-30°	2345.7	6.6
30°-40°	3612.6	10.1
40°-50°	5316.8	14.9
50°-60°	7798.6	21.9
60°-70°	8717.7	24.4
70°-80°	4268.1	12.0
80°-90°	1126.9	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°	35672.6	100.0
0°-180°	35672.6	100.0



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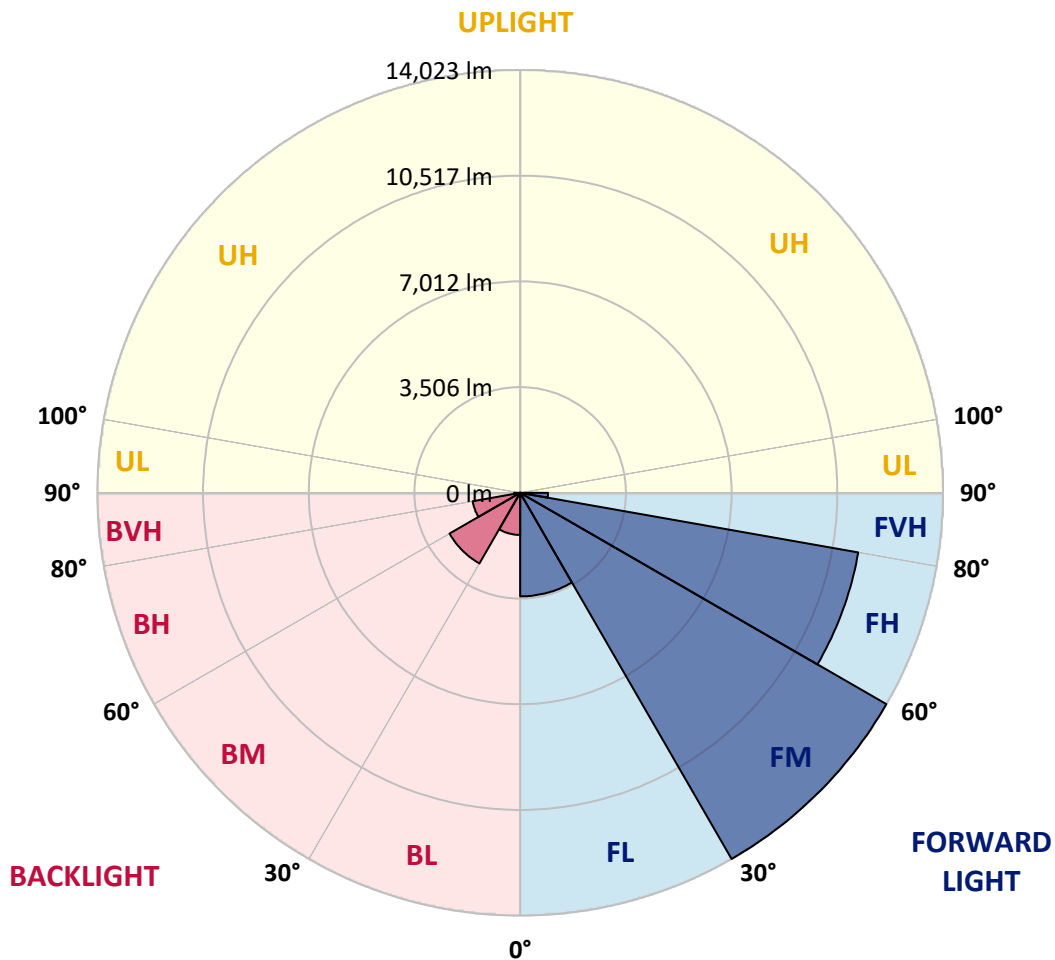
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3435.2	9.6			
FM (30°-60°)	14023.2	39.3			
FH (60°-80°)	11385.4	31.9			G4/12000
FVH (80°-90°)	925.4	2.6			G5
BL (0°-30°)	1396.6	3.9	B3/2500		
BM (30°-60°)	2704.9	7.6	B3/5000		
BH (60°-80°)	1600.4	4.5	B3/2500		G3/2500
BVH (80°-90°)	201.5	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	12052.5	12052.5	12052.5	12052.5	12052.5	12052.5	12052.5	12052.5	12052.5	12052.5	12052.5
2.5°	12522.3	12722.8	13113.1	13404.6	13760.5	13842.6	13956.5	13844.5	13646.5	13383.6	13297.7
5°	11775.6	12203.4	13150.0	13983.9	14724.9	15069.9	15166.7	14881.5	14307.3	13552.3	13091.4
7.5°	10577.5	11185.5	12467.6	13695.5	14787.3	15432.8	15416.9	14756.1	13699.4	12469.5	11730.4
10°	9543.7	10238.2	11709.4	13081.9	14240.5	14866.2	14624.3	13780.2	12518.5	11102.7	10301.3
12.5°	8965.7	9646.2	11138.4	12516.6	13485.5	13701.3	13516.7	12689.1	11500.6	10069.5	9367.4
15°	8865.1	9613.1	10911.1	12032.8	12575.8	12388.0	12167.7	11797.2	10957.6	9736.0	9004.5
17.5°	9299.3	10122.4	11172.1	11695.4	11603.1	11275.2	11212.8	11254.2	11052.4	10106.5	9263.6
20°	10130.6	11118.6	11793.4	11536.9	10864.0	10412.7	10428.6	11058.2	11655.9	11046.1	10082.9
22.5°	11296.9	12424.9	12689.1	11620.9	10552.1	10016.7	10146.6	11166.4	12619.1	12419.2	11189.3
25°	12806.9	13835.0	13644.6	11926.5	10583.3	10065.7	10169.5	11538.8	13756.0	13791.7	12558.6
27.5°	14269.7	15223.3	14446.1	12332.6	10713.1	10181.6	10319.1	12124.4	14842.7	15281.9	14123.3
30°	15411.1	16074.5	14763.7	12703.1	10967.8	10406.9	10577.5	12681.5	15337.3	16287.7	15327.1
32.5°	16356.5	16832.6	15269.8	13162.1	11436.3	10761.5	11062.0	13358.1	16049.0	17245.1	16505.4
35°	17564.1	17699.7	15899.4	13673.9	12160.1	11379.6	11752.0	14020.8	16727.6	18211.5	17666.6
37.5°	18980.5	18806.1	16493.3	14374.1	13095.9	12346.0	12654.1	14748.5	17285.9	19307.7	18852.5
40°	20380.3	19960.2	17239.4	15460.2	14460.7	13485.5	13850.2	15525.1	17807.9	20405.8	20011.8
42.5°	21570.8	20948.8	17974.0	16654.4	15730.7	14742.7	15178.1	16307.5	18305.7	21342.9	21017.6
45°	22451.2	21678.3	18674.3	17801.5	17482.0	16413.1	16619.4	17203.1	18844.9	22125.9	21845.1
47.5°	23237.3	22411.7	19466.2	18958.8	19013.6	18585.8	18254.1	18246.5	19480.8	22765.0	22627.5
50°	24290.3	23429.6	20317.3	20150.5	21311.7	21027.1	20295.7	19464.3	20284.2	23490.7	23474.8
52.5°	25741.7	25042.1	21356.9	21435.2	23457.6	23643.5	22737.0	20927.8	21542.7	24821.8	24728.2
55°	27457.9	27049.2	22773.3	22912.0	26088.6	26222.3	25321.5	22756.7	23394.6	26750.0	26489.0
57.5°	28796.7	28710.7	24325.9	24684.9	28053.8	28654.1	27826.5	24875.3	25480.7	28373.3	27718.3
60°	29330.1	29747.7	25979.1	26473.1	29871.9	30535.8	29810.7	26735.4	27330.0	29046.2	27634.3
62.5°	29042.4	29975.0	27739.9	27698.5	30277.4	30992.9	30483.0	27771.1	28701.2	28351.7	26236.3
65°	27710.6	29157.6	28761.6	27382.8	28889.0	28947.5	28782.7	27308.3	29024.6	26157.4	23533.4
67.5°	24809.7	26892.6	27415.9	24677.3	25143.3	24761.3	24484.4	24774.7	27337.6	22868.8	19778.1
70°	20207.8	23341.7	23591.9	19737.4	19525.4	19268.2	18717.6	20311.6	24010.2	18743.0	15693.8
72.5°	14858.6	18152.9	18923.2	14476.0	13495.6	13547.8	13113.1	15306.7	19521.6	13922.8	11717.0
75°	10165.7	13144.3	14805.7	10100.7	8925.0	8946.0	8890.6	10846.2	15548.6	9685.0	8767.7
77.5°	7426.4	9390.9	11166.4	6790.5	6592.5	6470.9	6441.6	7588.8	11920.7	7032.4	6808.3
80°	5959.1	6938.2	7500.3	4706.3	5060.9	5051.3	4888.4	5218.1	7784.8	5143.6	5092.1
82.5°	4134.0	5332.1	6076.9	3688.4	3415.9	3358.6	3398.7	3886.4	5502.7	3515.9	3343.4
85°	2180.9	3541.3	6018.3	3268.9	2027.5	1617.6	2012.3	3182.3	4767.4	1863.3	1630.9
87.5°	278.8	1023.6	3984.4	1304.4	800.2	431.0	955.5	1792.0	3061.3	380.0	331.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	12052.5	12052.5	12052.5	12052.5	12052.5	12052.5	12052.5	12052.5	12052.5	12052.5	12052.5
2.5°	13076.1	12815.1	12473.9	12157.5	11830.3	11504.4	11079.2	10812.4	10628.5	10592.8	10515.1
5°	12758.5	11891.4	11236.4	10669.8	10156.1	9429.8	9028.1	8694.5	8516.3	8499.1	8455.8
7.5°	11293.1	10096.9	9212.7	8410.6	7683.0	7096.7	6449.3	6148.2	6024.0	6053.3	6082.6
10°	9769.1	8432.2	7416.2	6596.3	5955.3	5461.3	4941.8	4591.1	4347.3	4298.2	4288.7
12.5°	8655.7	7189.0	6202.9	5623.6	5128.3	4663.0	4112.4	3697.9	3382.8	3274.6	3202.7
15°	8184.6	6581.0	5547.9	4924.0	4376.5	3786.4	3274.6	2841.1	2551.4	2457.2	2404.4
17.5°	8285.2	6412.3	5096.5	4298.2	3598.6	2982.4	2337.5	1966.4	1792.0	1747.4	1747.4
20°	8811.0	6381.2	4723.5	3722.1	2848.7	2135.1	1606.1	1394.1	1337.5	1331.7	1347.0
22.5°	9548.2	6491.3	4445.9	3222.4	2214.1	1559.0	1250.9	1172.6	1147.1	1153.5	1170.7
25°	10646.3	6861.8	4244.1	2776.8	1737.2	1276.4	1115.3	1068.8	1056.7	1072.6	1094.3
27.5°	11948.1	7232.3	4118.1	2441.3	1466.7	1166.9	1060.6	1012.2	1019.8	1039.5	1058.6
30°	13091.4	7536.6	3920.1	2202.6	1382.7	1172.6	1060.6	994.3	986.7	990.5	996.3
32.5°	14117.6	7742.2	3688.4	1974.7	1192.3	1041.5	990.5	981.0	937.1	921.1	923.7
35°	15001.8	7742.2	3549.6	1841.6	1068.8	923.7	841.6	792.6	770.3	772.2	794.5
37.5°	15854.8	7586.8	3480.9	1766.5	1002.0	878.5	805.9	762.6	733.3	727.6	731.4
40°	16607.3	7361.5	3402.6	1735.3	951.1	851.1	783.0	746.7	715.5	706.0	707.9
42.5°	17211.4	7178.8	3316.0	1694.6	919.2	831.4	766.5	735.3	700.2	690.1	688.2
45°	17864.5	7118.3	3202.7	1611.8	935.1	833.3	762.6	729.5	693.9	682.4	678.6
47.5°	18725.2	7308.7	3084.9	1513.8	968.9	843.5	768.4	729.5	692.0	682.4	678.6
50°	19809.3	7755.5	2935.3	1370.6	935.1	870.9	766.5	723.2	692.0	682.4	674.8
52.5°	21202.2	8359.7	2739.9	1206.3	915.4	937.1	762.6	711.7	682.4	669.1	655.0
55°	22894.2	8853.7	2505.6	1070.7	870.9	919.2	756.9	698.3	667.1	647.4	635.3
57.5°	24133.7	9031.9	2206.4	982.9	807.8	889.9	748.6	680.5	647.4	631.5	616.2
60°	23888.6	8686.9	1953.0	927.5	770.3	804.0	742.9	664.6	629.6	618.1	603.5
62.5°	21926.0	7784.8	1790.1	902.0	746.7	733.3	748.6	649.3	614.3	601.6	597.8
65°	18982.4	6453.1	1725.8	896.3	727.6	692.0	696.4	631.5	595.8	586.3	582.5
67.5°	15658.1	5208.6	1669.1	915.4	702.2	662.7	643.6	607.9	578.0	568.5	560.8
70°	12347.9	4332.0	1643.0	904.0	671.0	633.4	612.4	582.5	557.0	546.8	541.1
72.5°	9943.5	3659.1	1629.0	891.9	629.6	593.9	574.2	548.7	521.4	517.5	511.8
75°	8415.0	2876.7	1492.8	854.9	582.5	546.8	533.5	509.9	482.5	482.5	478.7
77.5°	6491.3	2080.4	1241.3	756.9	533.5	494.0	482.5	464.7	433.5	439.2	437.3
80°	4794.8	1357.2	970.8	627.7	473.0	435.4	429.1	411.9	378.1	386.4	386.4
82.5°	3284.8	889.9	698.3	513.7	403.6	368.6	368.6	350.8	313.8	317.7	329.8
85°	1649.4	612.4	521.4	397.9	313.8	296.0	296.0	282.6	245.1	247.0	262.9
87.5°	502.3	368.6	345.0	284.6	225.4	221.5	211.3	201.8	178.2	176.3	186.5
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	12052.5	12052.5	12052.5	12052.5	12052.5	12052.5	12052.5	12052.5	12052.5	12052.5	12052.5
2.5°	10394.8	10282.8	10148.5	9849.9	9750.0	9743.6	9834.6	9739.8	9920.6	9844.2	9928.2
5°	8382.6	8273.7	8122.2	7742.2	7510.5	7353.2	7279.4	7059.8	7218.3	7102.4	7199.2
7.5°	6165.3	6190.8	6090.9	5867.4	5363.2	5110.5	4961.6	4827.9	4943.7	4931.6	5116.3
10°	4333.9	4402.0	4332.0	4106.6	3697.9	3559.2	3586.5	3639.4	3790.9	3868.5	4153.1
12.5°	3119.9	3116.1	3070.9	2869.1	2600.5	2615.7	2727.8	2819.4	2958.9	3041.6	3331.3
15°	2329.3	2294.3	2274.5	2109.7	1956.9	1990.6	2045.4	2054.9	2143.4	2192.4	2427.9
17.5°	1760.8	1778.6	1799.6	1682.5	1566.6	1545.0	1502.3	1448.9	1475.0	1484.5	1601.7
20°	1397.9	1468.6	1522.1	1439.3	1322.2	1258.5	1203.8	1168.8	1168.8	1166.9	1200.0
22.5°	1221.6	1272.5	1329.8	1272.5	1166.9	1111.5	1080.3	1052.9	1049.1	1049.1	1080.3
25°	1126.1	1163.0	1217.8	1179.0	1100.0	1058.6	1029.4	994.3	981.0	976.5	998.2
27.5°	1078.4	1094.3	1121.7	1086.0	1019.8	1000.1	992.4	961.2	942.8	933.2	955.5
30°	998.2	994.3	996.3	961.2	907.8	905.9	919.2	925.6	919.2	917.3	951.1
32.5°	923.7	915.4	913.5	882.3	833.3	821.8	833.3	845.4	858.8	878.5	917.3
35°	829.5	849.2	860.7	833.3	774.1	739.1	725.7	704.1	692.0	692.0	737.2
37.5°	755.0	800.2	818.0	792.6	727.6	678.6	655.0	651.2	653.1	660.8	704.1
40°	729.5	762.6	777.9	753.1	688.2	643.6	629.6	625.8	629.6	641.7	684.3
42.5°	713.6	737.2	735.3	704.1	651.2	620.0	612.4	607.9	612.4	623.9	671.0
45°	700.2	715.5	700.2	662.7	614.3	597.8	599.7	597.8	601.6	614.3	658.9
47.5°	688.2	693.9	674.8	637.2	586.3	582.5	590.1	595.8	599.7	610.5	657.0
50°	671.0	671.0	653.1	614.3	562.7	564.7	574.2	588.2	590.1	601.6	639.8
52.5°	649.3	647.4	635.3	597.8	543.0	548.7	548.7	564.7	568.5	582.5	621.9
55°	631.5	627.7	621.9	586.3	525.8	535.4	529.6	535.4	544.9	558.9	601.6
57.5°	616.2	607.9	607.9	576.1	511.8	515.6	502.3	509.9	521.4	533.5	578.0
60°	599.7	592.0	595.8	562.7	490.2	486.4	480.6	495.9	500.4	513.7	558.9
62.5°	582.5	576.1	578.0	546.8	474.9	464.7	464.7	478.7	480.6	500.4	543.0
65°	568.5	560.8	558.9	531.6	457.1	445.6	451.3	457.1	460.9	480.6	521.4
67.5°	555.1	539.2	539.2	517.5	437.3	425.2	437.3	435.4	441.8	459.0	492.1
70°	537.3	515.6	517.5	508.0	417.6	403.6	413.8	411.9	415.7	427.2	460.9
72.5°	509.9	492.1	495.9	492.1	397.9	378.1	382.0	382.0	382.0	392.1	427.2
75°	474.9	460.9	473.0	482.5	374.3	346.9	350.8	350.8	345.0	350.8	394.0
77.5°	431.0	423.3	462.8	449.4	346.9	313.8	313.8	310.0	298.6	306.2	352.7
80°	384.5	378.1	427.2	376.2	315.7	273.1	268.6	258.5	247.0	252.7	300.5
82.5°	335.5	329.8	359.0	288.4	273.1	225.4	215.8	198.0	186.5	192.2	234.9
85°	275.0	275.0	276.9	217.7	207.5	172.5	161.1	137.5	123.5	127.3	168.7
87.5°	196.1	201.8	186.5	149.0	123.5	96.1	88.5	74.5	62.4	72.6	88.5
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	12052.5	12052.5	12052.5	12052.5	12052.5	12052.5	12052.5	12052.5
2.5°	10359.8	10575.6	10820.7	11133.9	11403.2	11843.7	12267.7	12522.3
5°	7746.0	8105.0	8551.3	9126.8	9662.1	10465.5	11263.8	11775.6
7.5°	5543.4	5927.9	6410.4	7127.9	7885.4	8910.3	9965.8	10577.5
10°	4587.2	4981.3	5386.8	5871.2	6491.3	7606.6	8853.7	9543.7
12.5°	3794.7	4216.1	4653.5	5163.4	5737.6	6733.8	8171.2	8965.7
15°	2904.1	3374.5	3890.2	4535.7	5255.0	6406.6	8002.5	8865.1
17.5°	1990.6	2516.4	3149.2	3945.6	4826.0	6300.3	8304.9	9299.3
20°	1370.6	1753.2	2429.9	3363.1	4422.4	6286.9	8884.8	10130.6
22.5°	1147.1	1317.7	1811.7	2827.7	4118.1	6455.6	9785.6	11296.9
25°	1060.6	1163.0	1447.0	2363.0	3896.6	6843.9	11025.1	12806.9
27.5°	1010.3	1101.9	1313.9	2059.4	3722.1	7294.7	12230.8	14269.7
30°	1029.4	1123.6	1276.4	1904.0	3484.7	7670.9	13301.5	15411.1
32.5°	927.5	968.9	1094.3	1766.5	3314.1	7986.6	14238.5	16356.5
35°	790.6	862.6	976.5	1702.2	3317.9	8198.6	15260.3	17564.1
37.5°	753.1	825.7	907.8	1678.7	3363.1	8424.6	16432.9	18980.5
40°	729.5	796.4	867.0	1665.3	3406.4	8630.2	17582.5	20380.3
42.5°	713.6	774.1	862.6	1617.6	3428.0	8814.8	18527.2	21570.8
45°	711.7	774.1	878.5	1570.5	3461.1	9012.8	19319.8	22451.2
47.5°	713.6	800.2	849.2	1513.8	3461.1	9343.8	20249.2	23237.3
50°	706.0	843.5	818.0	1433.6	3380.9	9971.5	21523.7	24290.3
52.5°	702.2	837.7	756.9	1310.1	3241.5	10967.8	23157.1	25741.7
55°	692.0	807.8	713.6	1126.1	3079.2	12054.4	24906.5	27457.9
57.5°	682.4	715.5	690.1	965.1	2827.7	12819.0	26110.3	28796.7
60°	764.5	625.8	671.0	886.1	2492.2	13028.4	26063.8	29330.1
62.5°	707.9	586.3	645.5	868.9	2257.3	12440.2	24859.4	29042.4
65°	555.1	560.8	620.0	919.2	2194.3	10881.8	22725.5	27710.6
67.5°	508.0	535.4	593.9	984.8	2200.7	8712.3	19537.5	24809.7
70°	478.7	508.0	564.7	1017.9	2216.0	6495.1	15446.2	20207.8
72.5°	445.6	471.1	531.6	1023.6	2113.5	4717.7	11905.5	14858.6
75°	405.5	429.1	484.4	891.9	1751.3	3272.7	9107.0	10165.7
77.5°	360.9	378.1	425.2	688.2	1300.5	2094.4	6835.7	7426.4
80°	308.1	317.7	357.1	504.2	889.9	1310.1	5408.4	5959.1
82.5°	247.0	250.8	276.9	378.1	578.0	841.6	3622.2	4134.0
85°	174.4	174.4	190.3	275.0	394.0	533.5	1966.4	2180.9
87.5°	82.1	84.0	84.0	150.9	205.6	271.2	453.3	278.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)