

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: P192075

Luminaire Tested: **GLEON-AF-07-LED-E1-SLL-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-SLL-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 615mA 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: 24378 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

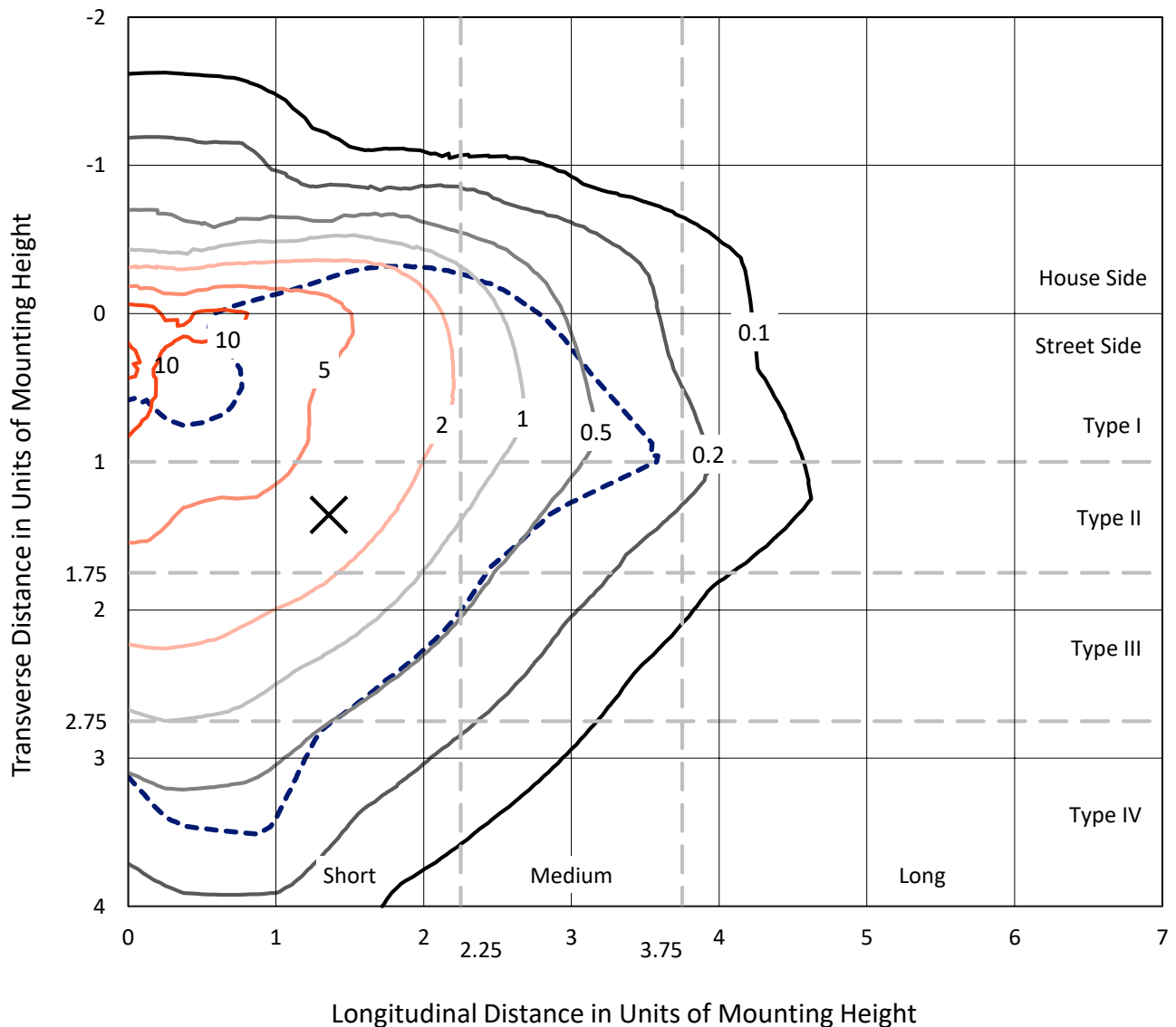
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

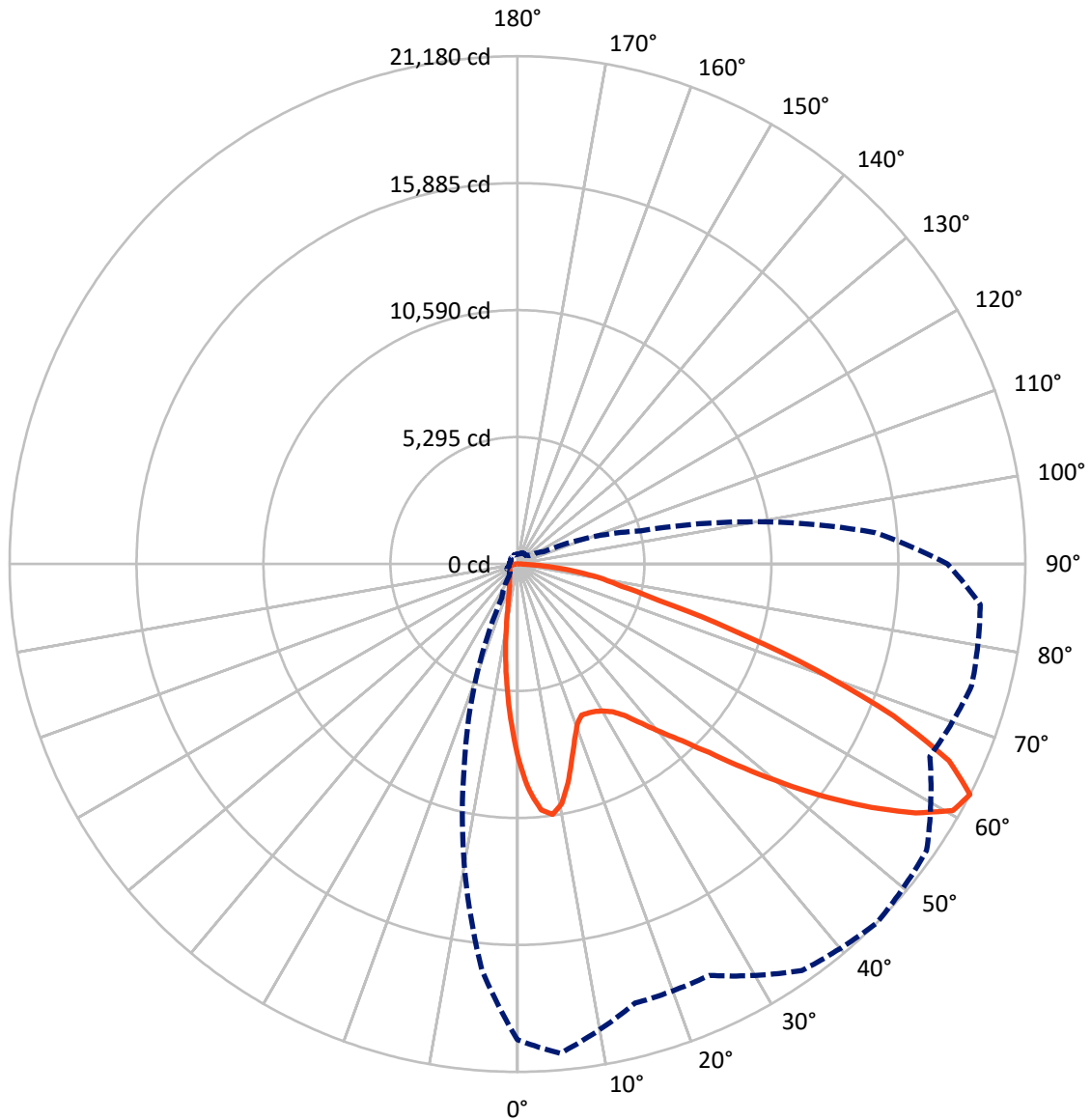
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 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	4034.2	0.0	4034.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	20343.8	0.0	20343.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	24378.0	0.0	24378.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.6	2.5
10°-20°	1099.4	4.5
20°-30°	1603.0	6.6
30°-40°	2468.8	10.1
40°-50°	3633.4	14.9
50°-60°	5329.4	21.9
60°-70°	5957.6	24.4
70°-80°	2916.7	12.0
80°-90°	770.1	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°	24378.0	100.0
0°-180°	24378.0	100.0



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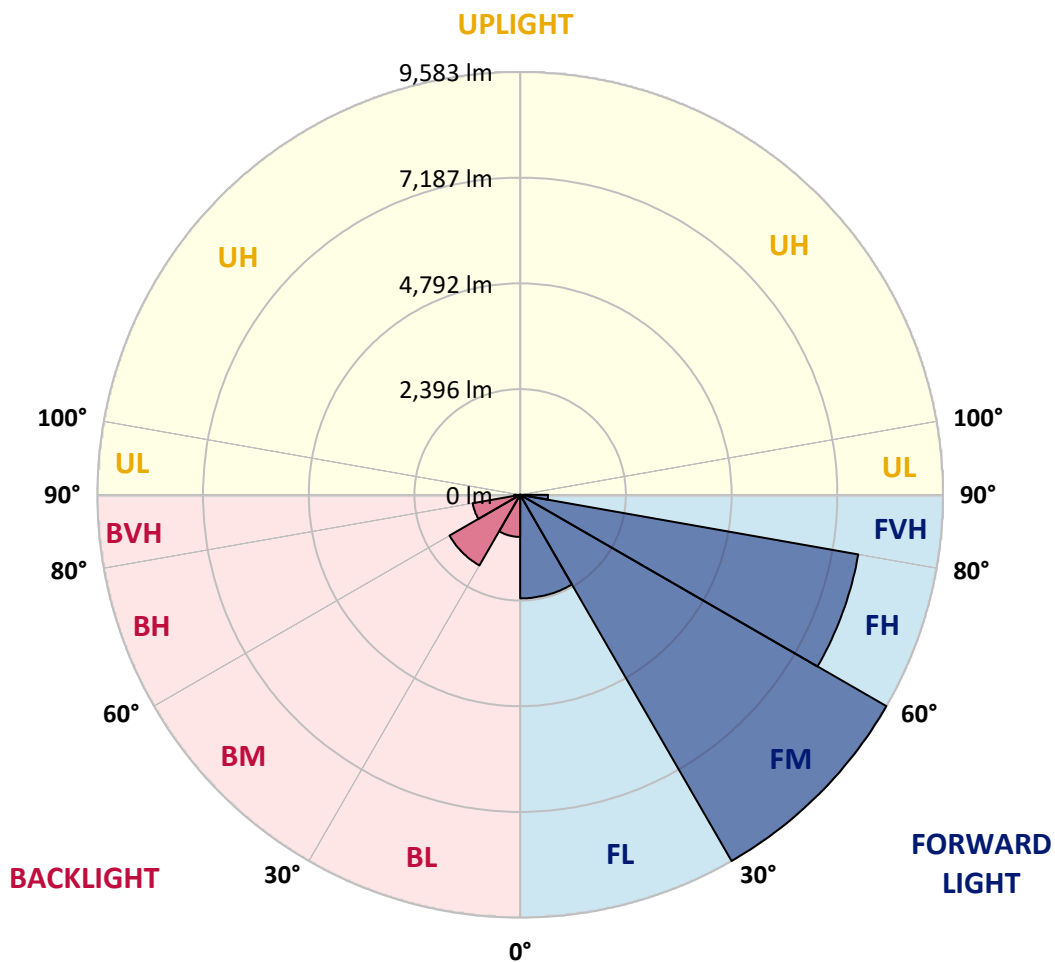
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2347.5	9.6			
FM	(30°-60°)	9583.2	39.3			
FH	(60°-80°)	7780.6	31.9			G4/12000
FVH	(80°-90°)	632.4	2.6			G4/750
BL	(0°-30°)	954.4	3.9	B2/1000		
BM	(30°-60°)	1848.5	7.6	B2/2500		
BH	(60°-80°)	1093.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	137.7	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°	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2
2.5°	8557.8	8694.5	8961.2	9160.9	9403.4	9459.7	9537.4	9461.0	9325.7	9146.1	9087.2
5°	8047.2	8339.4	8986.7	9556.2	10062.7	10298.6	10364.3	10170.0	9777.3	9261.4	8946.5
7.5°	7228.5	7643.9	8520.3	9359.2	10105.6	10546.5	10535.8	10084.2	9361.9	8521.6	8016.4
10°	6522.2	6996.6	8001.7	8939.7	9731.7	10159.2	9994.4	9416.8	8555.1	7587.6	7039.5
12.5°	6126.9	6591.9	7611.7	8553.8	9215.8	9363.2	9237.2	8671.7	7859.6	6881.4	6401.6
15°	6058.6	6569.1	7456.3	8222.8	8594.0	8465.4	8315.3	8062.0	7488.4	6653.6	6153.7
17.5°	6354.7	6917.6	7634.5	7992.3	7929.3	7705.5	7662.6	7690.8	7552.8	6906.8	6330.6
20°	6922.9	7598.3	8059.3	7883.8	7424.1	7115.9	7126.6	7556.8	7965.5	7548.7	6890.7
22.5°	7720.3	8490.8	8671.7	7941.4	7211.0	6845.2	6933.6	7630.5	8623.5	8486.8	7646.6
25°	8752.1	9454.3	9324.4	8150.4	7232.5	6878.7	6949.7	7885.1	9400.7	9424.9	8581.9
27.5°	9751.8	10403.1	9872.5	8427.8	7320.9	6957.8	7051.6	8285.8	10143.2	10443.3	9651.3
30°	10531.8	10984.7	10089.5	8681.1	7495.1	7111.9	7228.5	8666.4	10480.9	11130.8	10474.2
32.5°	11177.7	11503.3	10435.3	8994.7	7815.4	7354.4	7559.5	9128.7	10967.3	11784.8	11279.5
35°	12003.2	12095.7	10865.5	9344.5	8309.9	7776.6	8031.2	9581.7	11431.0	12445.4	12072.9
37.5°	12970.7	12851.5	11271.5	9822.9	8949.1	8437.2	8647.6	10078.8	11812.9	13194.5	12883.6
40°	13927.6	13640.8	11780.7	10565.3	9881.8	9215.8	9465.1	10609.5	12169.4	13945.0	13675.6
42.5°	14741.0	14316.2	12283.3	11381.4	10750.2	10074.8	10372.3	11144.2	12509.8	14585.6	14363.1
45°	15342.7	14814.7	12761.7	12165.3	11946.9	11216.6	11357.3	11756.6	12878.3	15120.3	14928.6
47.5°	15880.1	15315.9	13303.1	12956.0	12993.5	12701.4	12474.9	12469.6	13312.5	15557.1	15463.3
50°	16599.7	16011.4	13884.7	13770.8	14564.1	14369.8	13869.9	13301.7	13861.9	16053.0	16042.2
52.5°	17591.4	17113.0	14594.9	14648.5	16030.2	16157.5	15538.4	14301.5	14722.2	16962.9	16898.6
55°	18764.0	18485.2	15562.5	15657.6	17828.6	17919.7	17304.6	15551.8	15987.3	18280.2	18102.0
57.5°	19679.2	19620.3	16623.8	16869.1	19171.3	19581.4	19015.9	16999.1	17413.1	19389.8	18942.2
60°	20043.7	20329.2	17753.5	18091.2	20413.6	20867.9	20372.1	18270.8	18676.9	19849.4	18884.6
62.5°	19846.8	20484.6	18956.9	18928.8	20691.0	21180.1	20831.7	18978.4	19613.6	19375.0	17929.1
65°	18936.8	19925.8	19655.1	18713.0	19742.2	19782.4	19669.9	18662.1	19834.7	17875.5	16082.4
67.5°	16954.8	18378.0	18735.8	16863.7	17182.7	16921.3	16732.4	16930.7	18682.2	15628.1	13516.2
70°	13809.6	15951.1	16122.6	13488.0	13343.3	13167.7	12791.2	13880.7	16408.1	12808.6	10724.8
72.5°	10153.9	12405.2	12931.9	9892.6	9222.5	9258.7	8961.2	10460.8	13340.6	9514.6	8007.0
75°	6947.0	8982.6	10117.7	6902.8	6098.8	6113.5	6076.0	7412.0	10625.6	6618.7	5991.5
77.5°	5074.9	6417.7	7630.5	4640.7	4505.4	4422.3	4402.2	5186.2	8146.4	4805.6	4652.8
80°	4072.5	4741.2	5125.8	3216.2	3458.8	3452.1	3340.8	3566.0	5320.2	3515.1	3480.2
82.5°	2824.9	3643.7	4152.9	2520.7	2334.4	2295.6	2322.4	2656.1	3760.3	2402.8	2284.9
85°	1490.2	2420.2	4112.7	2233.9	1385.7	1105.6	1374.9	2175.0	3257.8	1273.1	1115.0
87.5°	190.3	699.5	2723.1	891.2	546.8	294.8	652.6	1224.8	2091.9	260.0	226.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2
2.5°	8935.7	8757.5	8524.3	8308.6	8084.8	7862.3	7571.5	7389.3	7263.3	7239.2	7185.6
5°	8718.6	8126.3	7678.7	7291.4	6940.3	6444.5	6169.8	5942.0	5820.0	5808.0	5778.5
7.5°	7717.6	6900.1	6295.7	5747.7	5250.5	4849.8	4407.6	4201.2	4116.8	4136.9	4157.0
10°	6676.3	5762.4	5068.2	4508.1	4069.9	3732.2	3377.0	3137.2	2971.0	2937.5	2930.8
12.5°	5915.2	4912.8	4238.7	3843.4	3504.3	3186.7	2810.2	2527.4	2311.7	2238.0	2188.4
15°	5593.5	4497.3	3791.1	3365.0	2991.1	2587.7	2238.0	1941.8	1743.5	1679.1	1643.0
17.5°	5661.9	4382.1	3482.9	2937.5	2459.1	2038.3	1597.4	1344.1	1224.8	1194.0	1194.0
20°	6021.0	4360.7	3228.3	2543.5	1947.2	1459.4	1097.5	952.8	913.9	909.9	920.6
22.5°	6524.9	4435.7	3038.0	2201.8	1513.0	1065.4	855.0	801.4	784.0	788.0	800.0
25°	7275.4	4689.0	2900.0	1897.6	1187.3	872.4	762.5	730.3	722.3	733.0	747.8
27.5°	8165.2	4942.3	2814.2	1668.4	1002.4	797.4	725.0	691.5	696.8	710.2	723.6
30°	8946.5	5150.0	2678.8	1504.9	944.8	801.4	725.0	679.4	674.1	676.7	680.8
32.5°	9647.3	5290.7	2520.7	1349.5	814.8	711.6	676.7	670.0	640.6	629.8	631.2
35°	10251.7	5290.7	2425.6	1258.3	730.3	631.2	574.9	541.4	526.7	528.0	542.7
37.5°	10834.6	5184.8	2378.7	1207.4	684.8	600.4	550.8	521.3	501.2	497.2	499.9
40°	11349.2	5030.7	2325.1	1186.0	649.9	581.6	534.7	510.6	489.1	482.4	483.8
42.5°	11762.0	4906.1	2266.1	1157.8	628.5	568.2	524.0	502.5	478.4	471.7	470.4
45°	12208.2	4864.5	2188.4	1101.6	639.2	569.5	521.3	498.5	474.4	466.4	463.7
47.5°	12796.5	4994.5	2108.0	1034.6	662.0	576.2	525.3	498.5	473.1	466.4	463.7
50°	13537.6	5300.1	2006.1	936.7	639.2	595.0	524.0	494.5	473.1	466.4	461.0
52.5°	14489.1	5712.8	1872.1	824.2	625.8	640.6	521.3	486.5	466.4	457.0	447.6
55°	15645.6	6050.5	1712.6	731.7	595.0	628.5	517.3	477.1	455.6	442.2	434.2
57.5°	16492.5	6172.5	1507.6	671.4	552.1	608.4	511.9	465.0	442.2	431.5	420.8
60°	16325.0	5936.6	1334.7	633.9	526.7	549.4	507.9	454.3	430.2	422.1	412.7
62.5°	14983.6	5320.2	1223.5	616.4	510.6	501.2	511.9	443.6	419.4	411.4	408.7
65°	12972.1	4410.2	1179.3	612.4	497.2	473.1	475.7	431.5	407.4	400.7	398.0
67.5°	10700.6	3559.3	1140.4	625.8	479.8	453.0	439.5	415.4	395.3	388.6	383.3
70°	8438.6	2960.3	1123.0	617.8	458.3	432.8	418.1	398.0	380.6	373.9	369.9
72.5°	6795.6	2500.6	1113.6	609.7	430.2	406.0	392.6	375.2	356.5	353.8	349.8
75°	5750.3	1965.9	1019.8	584.3	398.0	373.9	364.5	348.4	329.7	329.7	327.0
77.5°	4435.7	1421.8	848.3	517.3	364.5	337.7	329.7	317.6	296.2	300.2	298.8
80°	3276.5	927.3	663.3	428.8	323.0	297.5	293.5	281.4	258.6	264.0	264.0
82.5°	2244.7	608.4	477.1	351.1	276.1	251.9	251.9	239.9	214.4	217.1	225.1
85°	1127.0	418.1	356.5	272.0	214.4	202.4	202.4	193.0	167.5	168.9	179.6
87.5°	343.1	251.9	235.9	194.3	154.1	151.4	144.7	138.0	121.9	120.6	127.3
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°	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2
2.5°	7103.8	7027.4	6935.0	6731.3	6662.9	6658.9	6720.6	6656.2	6779.5	6727.3	6784.9
5°	5728.9	5653.8	5550.7	5290.7	5132.5	5025.3	4974.4	4824.3	4932.9	4853.8	4919.5
7.5°	4213.2	4230.7	4162.3	4009.6	3665.1	3492.3	3390.4	3299.3	3378.4	3370.3	3496.3
10°	2961.6	3008.5	2960.3	2806.2	2527.4	2432.3	2451.0	2487.2	2590.4	2644.0	2838.3
12.5°	2132.1	2129.4	2098.6	1960.6	1777.0	1787.7	1864.1	1927.1	2022.2	2078.5	2276.8
15°	1592.0	1567.9	1554.5	1441.9	1337.4	1360.2	1397.7	1404.4	1464.7	1498.2	1659.0
17.5°	1203.4	1215.5	1230.2	1149.8	1070.7	1056.0	1026.5	990.3	1007.7	1014.4	1094.9
20°	955.5	1003.7	1039.9	983.6	903.2	860.3	822.8	798.7	798.7	797.4	820.1
22.5°	834.9	869.7	908.6	869.7	797.4	759.8	738.4	719.6	716.9	716.9	738.4
25°	769.2	794.7	832.2	805.4	751.8	723.6	703.5	679.4	670.0	667.4	682.1
27.5°	737.1	747.8	766.5	742.4	696.8	683.4	678.1	656.6	644.6	637.9	652.6
30°	682.1	679.4	680.8	656.6	620.5	619.1	628.5	632.5	628.5	627.2	649.9
32.5°	631.2	625.8	624.5	603.0	569.5	561.5	569.5	577.6	587.0	600.4	627.2
35°	566.9	580.3	588.3	569.5	529.3	505.2	495.8	481.1	473.1	473.1	503.9
37.5°	515.9	546.8	558.8	541.4	497.2	463.7	447.6	444.9	446.3	451.6	481.1
40°	498.5	521.3	532.0	514.6	470.4	439.5	430.2	427.5	430.2	438.2	467.7
42.5°	487.8	503.9	502.5	481.1	444.9	423.5	418.1	415.4	418.1	426.1	458.3
45°	478.4	489.1	478.4	453.0	419.4	408.7	410.1	408.7	411.4	419.4	450.3
47.5°	470.4	474.4	461.0	435.5	400.7	398.0	403.4	407.4	410.1	416.8	448.9
50°	458.3	458.3	446.3	419.4	384.6	385.9	392.6	402.0	403.4	411.4	436.9
52.5°	443.6	442.2	434.2	408.7	371.2	375.2	375.2	385.9	388.6	398.0	424.8
55°	431.5	428.8	424.8	400.7	359.1	365.8	361.8	365.8	372.5	381.9	411.4
57.5°	420.8	415.4	415.4	394.0	349.8	352.4	343.1	348.4	356.5	364.5	395.3
60°	410.1	404.7	407.4	384.6	335.0	332.3	328.3	339.0	341.7	351.1	381.9
62.5°	398.0	394.0	395.3	373.9	324.3	317.6	317.6	327.0	328.3	341.7	371.2
65°	388.6	383.3	381.9	363.2	312.2	304.2	308.2	312.2	314.9	328.3	356.5
67.5°	379.2	368.5	368.5	353.8	298.8	290.8	298.8	297.5	301.5	313.6	336.4
70°	367.2	352.4	353.8	347.1	285.4	276.1	282.8	281.4	284.1	292.1	314.9
72.5°	348.4	336.4	339.0	336.4	272.0	258.6	261.3	261.3	261.3	268.0	292.1
75°	324.3	314.9	323.0	329.7	256.0	237.2	239.9	239.9	235.9	239.9	269.4
77.5°	294.8	289.5	316.3	306.9	237.2	214.4	214.4	211.7	203.7	209.1	241.2
80°	262.7	258.6	292.1	257.3	215.8	186.3	183.6	176.9	168.9	172.9	205.0
82.5°	229.2	225.1	245.2	197.0	186.3	154.1	147.4	135.3	127.3	131.3	160.8
85°	187.6	187.6	189.0	148.8	142.0	117.9	109.9	93.8	84.4	87.1	115.2
87.5°	134.0	138.0	127.3	101.8	84.4	65.7	60.3	50.9	42.9	49.6	60.3
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°	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2
2.5°	7079.7	7227.1	7394.6	7609.0	7792.6	8094.2	8383.6	8557.8
5°	5293.4	5538.6	5844.1	6236.8	6602.6	7152.1	7697.5	8047.2
7.5°	3788.4	4051.1	4380.8	4871.2	5388.5	6089.4	6810.3	7228.5
10°	3134.5	3403.8	3681.2	4012.2	4435.7	5198.2	6050.5	6522.2
12.5°	2593.1	2881.2	3180.0	3528.5	3921.1	4601.9	5584.2	6126.9
15°	1984.7	2306.3	2658.7	3099.6	3591.4	4378.1	5468.9	6058.6
17.5°	1360.2	1719.3	2152.2	2696.3	3298.0	4305.7	5675.3	6354.7
20°	936.7	1198.0	1660.4	2298.3	3021.9	4296.3	6072.0	6922.9
22.5°	784.0	900.5	1238.2	1932.4	2814.2	4411.6	6687.1	7720.3
25°	725.0	794.7	989.0	1614.8	2662.8	4676.9	7534.0	8752.1
27.5°	690.1	753.1	897.9	1407.1	2543.5	4985.1	8358.1	9751.8
30°	703.5	767.9	872.4	1301.2	2381.3	5242.4	9089.8	10531.8
32.5°	633.9	662.0	747.8	1207.4	2264.8	5458.2	9730.4	11177.7
35°	540.1	589.6	667.4	1163.2	2267.4	5602.9	10428.6	12003.2
37.5°	514.6	564.2	620.5	1147.1	2298.3	5757.0	11230.0	12970.7
40°	498.5	544.1	592.3	1137.7	2327.7	5897.7	12015.3	13927.6
42.5°	487.8	529.3	589.6	1105.6	2342.5	6023.7	12661.2	14741.0
45°	486.5	529.3	600.4	1073.4	2365.3	6159.1	13202.6	15342.7
47.5°	487.8	546.8	580.3	1034.6	2365.3	6385.5	13837.8	15880.1
50°	482.4	576.2	558.8	979.6	2310.3	6814.4	14708.8	16599.7
52.5°	479.8	572.2	517.3	895.2	2215.2	7495.1	15825.1	17591.4
55°	473.1	552.1	487.8	769.2	2103.9	8237.5	17020.5	18764.0
57.5°	466.4	489.1	471.7	659.3	1932.4	8760.2	17843.3	19679.2
60°	522.6	427.5	458.3	605.7	1703.3	8903.6	17811.2	20043.7
62.5°	483.8	400.7	440.9	593.7	1542.4	8501.5	16988.3	19846.8
65°	379.2	383.3	423.5	628.5	1499.6	7436.2	15530.3	18936.8
67.5°	347.1	365.8	406.0	672.7	1503.6	5954.0	13351.3	16954.8
70°	327.0	347.1	385.9	695.5	1514.3	4438.4	10555.9	13809.6
72.5°	304.2	321.6	363.2	699.5	1444.6	3224.3	8135.7	10153.9
75°	277.4	293.5	331.0	609.7	1196.7	2236.6	6223.4	6947.0
77.5°	246.6	258.6	290.8	470.4	888.5	1431.2	4671.6	5074.9
80°	210.4	217.1	243.9	344.4	608.4	895.2	3696.0	4072.5
82.5°	168.9	171.5	189.0	258.6	395.3	574.9	2475.1	2824.9
85°	119.3	119.3	130.0	187.6	269.4	364.5	1344.1	1490.2
87.5°	56.3	57.6	57.6	103.2	140.7	184.9	309.6	190.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)