

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: P193817

Luminaire Tested: **GLEON-AF-09-LED-E1-SLL-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193817
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-09-LED-E1-SLL-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 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: 25143 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

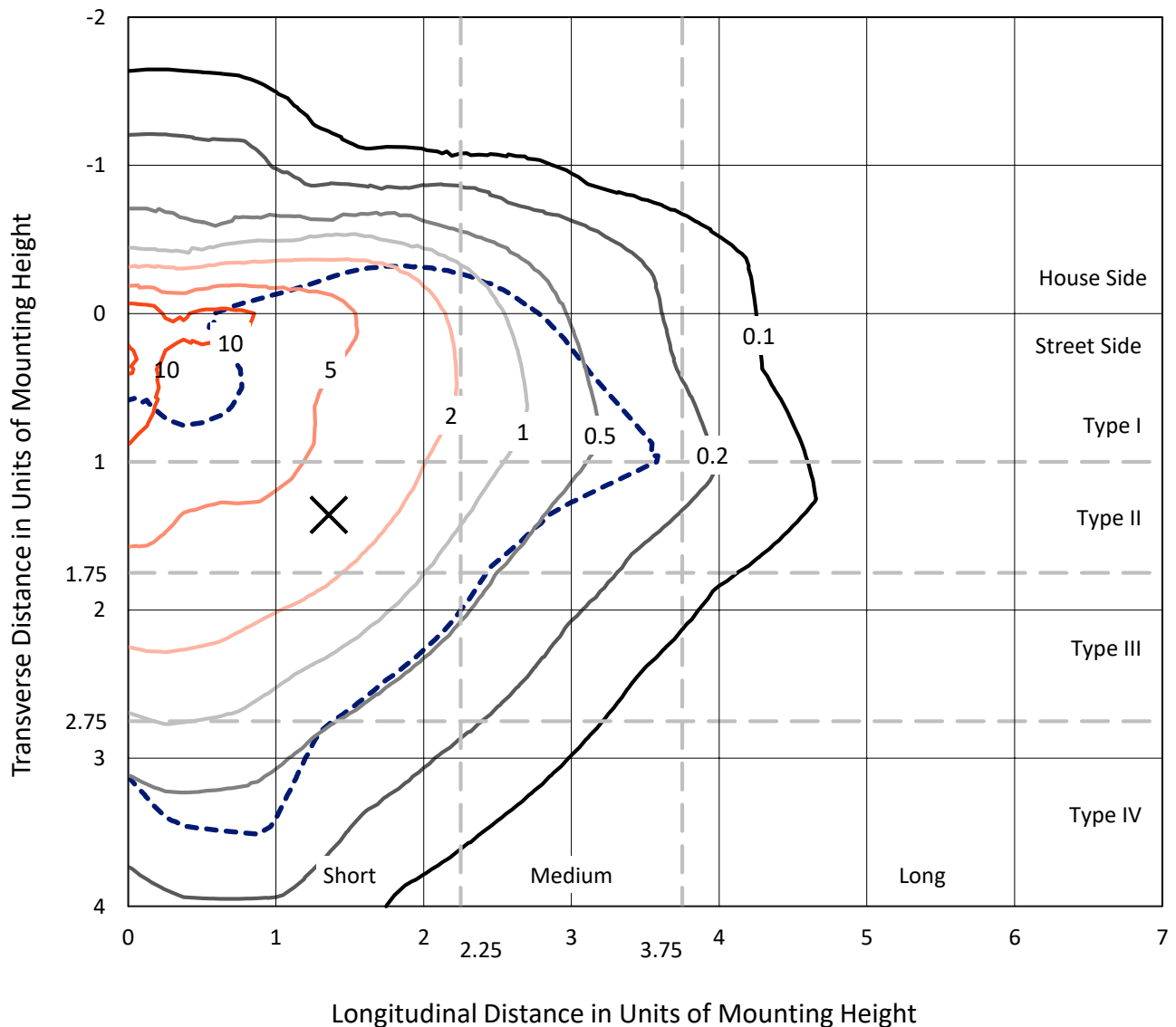
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

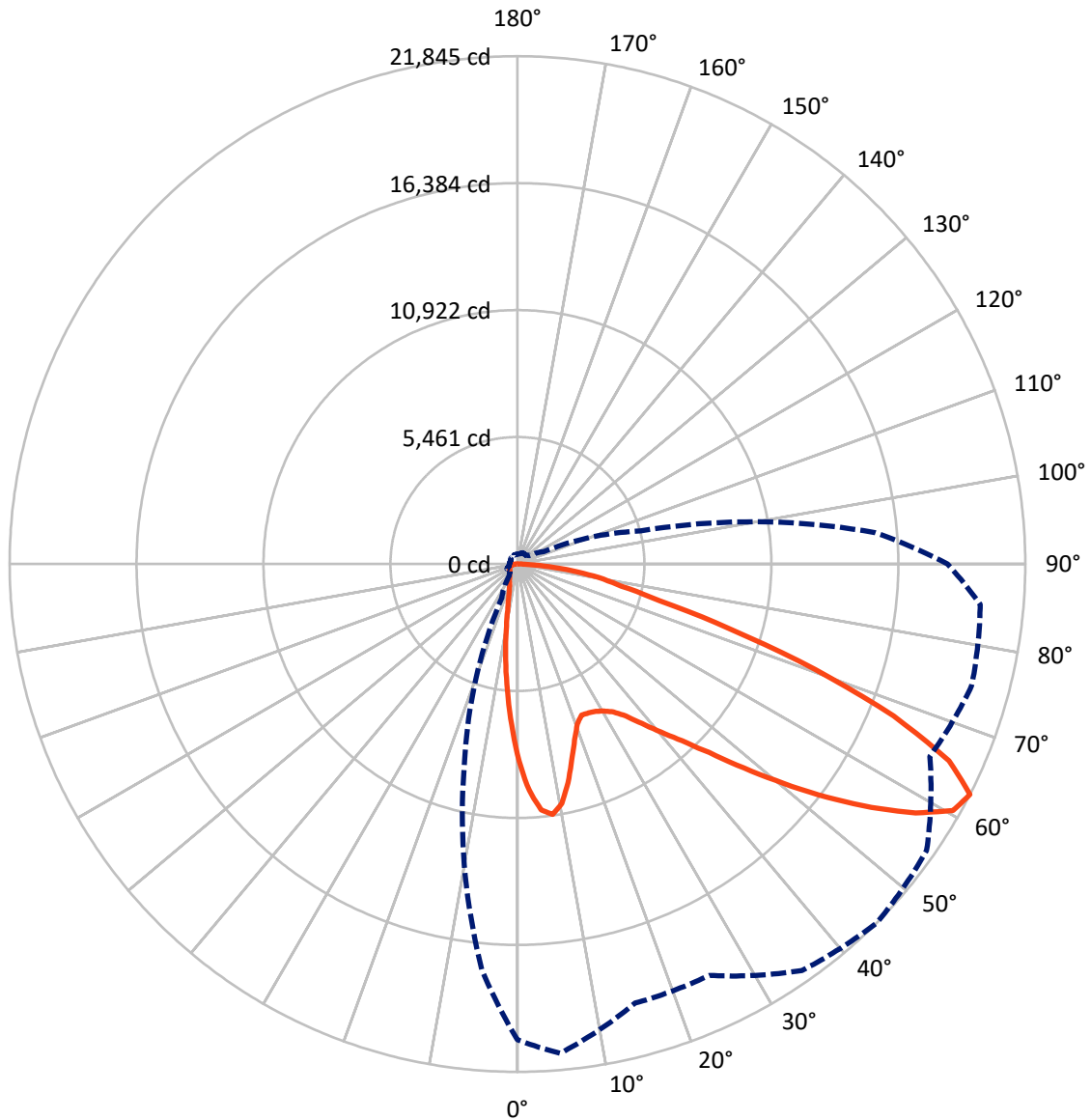
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 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	4160.8	0.0	4160.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	20982.2	0.0	20982.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	25143.0	0.0	25143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.4	2.5
10°-20°	1133.9	4.5
20°-30°	1653.3	6.6
30°-40°	2546.3	10.1
40°-50°	3747.4	14.9
50°-60°	5496.7	21.9
60°-70°	6144.5	24.4
70°-80°	3008.3	12.0
80°-90°	794.3	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°	25143.0	100.0
0°-180°	25143.0	100.0

Coefficient of Utilization



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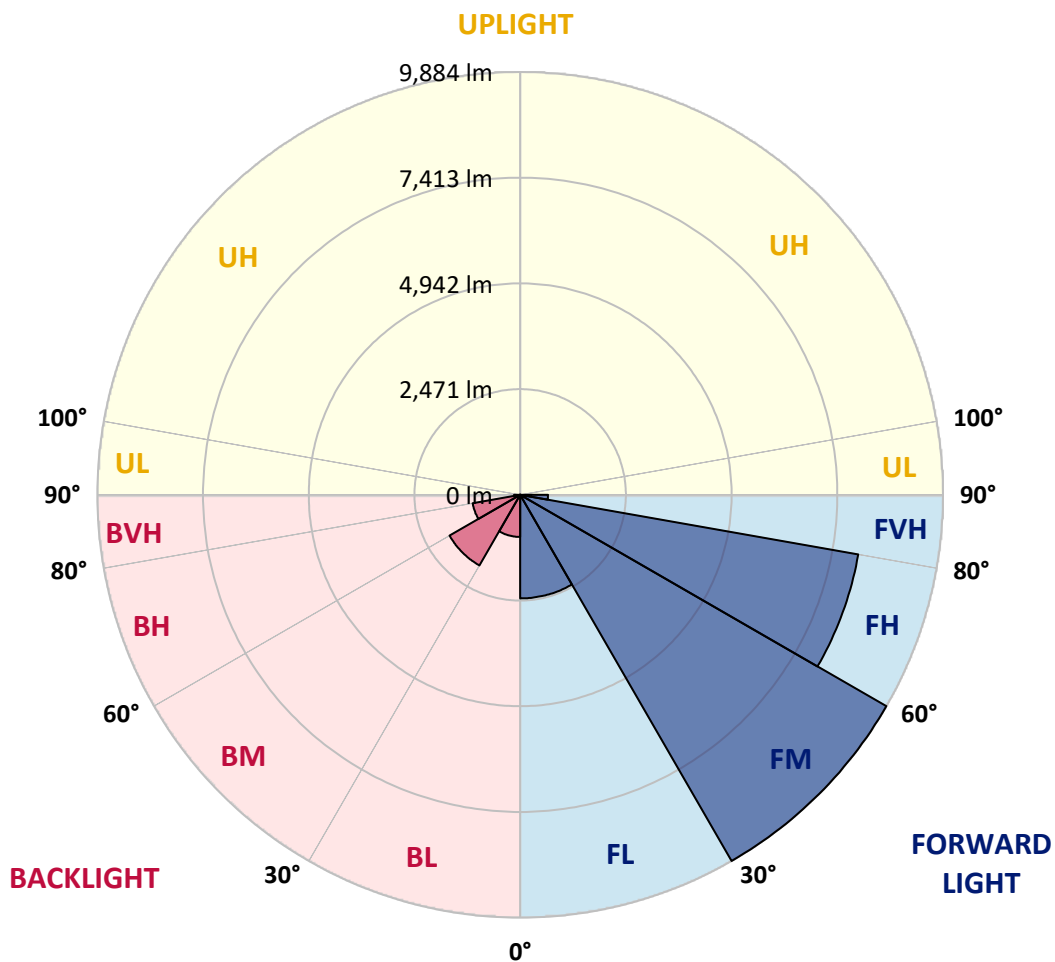
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2421.2	9.6			
FM	(30°-60°)	9883.9	39.3			
FH	(60°-80°)	8024.8	31.9			G4/12000
FVH	(80°-90°)	652.3	2.6			G4/750
BL	(0°-30°)	984.4	3.9	B2/1000		
BM	(30°-60°)	1906.5	7.6	B2/2500		
BH	(60°-80°)	1128.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	142.0	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°	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7
2.5°	8826.4	8967.4	9242.4	9448.3	9698.5	9756.6	9836.7	9757.9	9618.3	9433.1	9372.3
5°	8299.8	8601.1	9268.7	9856.1	10378.5	10621.8	10689.5	10489.1	10084.1	9552.0	9227.2
7.5°	7455.3	7883.8	8787.7	9652.9	10422.8	10877.5	10866.4	10400.6	9655.7	8789.1	8268.0
10°	6726.9	7216.2	8252.8	9220.3	10037.1	10478.0	10308.0	9712.3	8823.6	7825.7	7260.4
12.5°	6319.2	6798.8	7850.6	8822.2	9505.0	9657.0	9527.1	8943.9	8106.3	7097.3	6602.5
15°	6248.7	6775.3	7690.3	8480.8	8863.7	8731.0	8576.2	8315.0	7723.4	6862.3	6346.8
17.5°	6554.1	7134.6	7874.1	8243.1	8178.1	7947.3	7903.1	7932.1	7789.8	7123.6	6529.3
20°	7140.2	7836.8	8312.2	8131.2	7657.1	7339.2	7350.2	7793.9	8215.5	7785.6	7107.0
22.5°	7962.5	8757.3	8943.9	8190.6	7437.3	7060.0	7151.2	7869.9	8894.1	8753.1	7886.5
25°	9026.8	9751.0	9617.0	8406.2	7459.4	7094.5	7167.8	8132.5	9695.7	9720.6	8851.3
27.5°	10057.9	10729.6	10182.3	8692.3	7550.7	7176.1	7272.8	8545.8	10461.5	10771.1	9954.2
30°	10862.3	11329.4	10406.2	8953.5	7730.3	7335.0	7455.3	8938.3	10809.8	11480.1	10802.8
32.5°	11528.5	11864.3	10762.8	9277.0	8060.7	7585.2	7796.7	9415.2	11311.5	12154.6	11633.5
35°	12379.9	12475.2	11206.4	9637.7	8570.7	8020.6	8283.2	9882.3	11789.7	12836.0	12451.7
37.5°	13377.8	13254.8	11625.2	10131.1	9230.0	8702.0	8919.0	10395.1	12183.6	13608.6	13287.9
40°	14364.6	14068.8	12150.4	10896.8	10191.9	9505.0	9762.1	10942.4	12551.3	14382.6	14104.8
42.5°	15203.6	14765.4	12668.7	11738.6	11087.6	10391.0	10697.8	11493.9	12902.3	15043.3	14813.8
45°	15824.2	15279.6	13162.2	12547.1	12321.8	11568.5	11713.7	12125.6	13282.4	15594.7	15397.1
47.5°	16378.4	15796.5	13720.5	13362.6	13401.3	13100.0	12866.4	12860.9	13730.2	16045.3	15948.6
50°	17120.6	16513.9	14320.4	14202.9	15021.1	14820.7	14305.2	13719.2	14296.9	16556.7	16545.7
52.5°	18143.4	17650.0	15052.9	15108.2	16533.2	16664.5	16026.0	14750.2	15184.2	17495.2	17428.8
55°	19352.8	19065.3	16050.8	16149.0	18388.0	18482.0	17847.6	16039.8	16489.0	18853.8	18670.0
57.5°	20296.8	20236.0	17145.5	17398.4	19773.0	20195.9	19612.6	17532.5	17959.6	19998.2	19536.6
60°	20672.7	20967.1	18310.6	18659.0	21054.2	21522.8	21011.4	18844.2	19262.9	20472.3	19477.2
62.5°	20469.6	21127.5	19551.8	19522.8	21340.3	21844.8	21485.4	19573.9	20229.1	19983.0	18491.7
65°	19531.1	20551.1	20271.9	19300.3	20361.8	20403.2	20287.1	19247.7	20457.1	18436.4	16587.1
67.5°	17486.9	18954.7	19323.8	17392.9	17721.9	17452.3	17257.5	17462.0	19268.5	16118.6	13940.3
70°	14243.0	16451.7	16628.6	13911.3	13762.0	13581.0	13192.6	14316.3	16923.0	13210.5	11061.3
72.5°	10472.5	12794.5	13337.7	10203.0	9511.9	9549.2	9242.4	10789.0	13759.2	9813.2	8258.3
75°	7165.0	9264.5	10435.2	7119.4	6290.1	6305.3	6266.6	7644.6	10959.0	6826.4	6179.6
77.5°	5234.2	6619.1	7869.9	4786.4	4646.8	4561.1	4540.3	5348.9	8402.1	4956.4	4798.8
80°	4200.3	4890.0	5286.7	3317.1	3567.3	3560.4	3445.7	3677.9	5487.1	3625.4	3589.4
82.5°	2913.6	3758.1	4283.3	2599.8	2407.7	2367.6	2395.3	2739.4	3878.3	2478.2	2356.6
85°	1536.9	2496.2	4241.8	2304.0	1429.1	1140.3	1418.1	2243.2	3360.0	1313.0	1149.9
87.5°	196.3	721.5	2808.5	919.1	563.9	304.1	673.1	1263.3	2157.5	268.1	233.6
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°	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7
2.5°	9216.1	9032.3	8791.8	8569.3	8338.5	8109.0	7809.1	7621.1	7491.2	7466.3	7411.1
5°	8992.2	8381.3	7919.7	7520.2	7158.1	6646.7	6363.4	6128.4	6002.7	5990.2	5959.8
7.5°	7959.8	7116.7	6493.3	5928.0	5415.2	5002.0	4545.9	4333.0	4245.9	4266.7	4287.4
10°	6885.8	5943.2	5227.3	4649.5	4197.6	3849.3	3483.0	3235.6	3064.2	3029.7	3022.7
12.5°	6100.8	5066.9	4371.7	3964.0	3614.3	3286.7	2898.4	2606.7	2384.2	2308.2	2257.0
15°	5769.1	4638.5	3910.1	3470.6	3084.9	2668.9	2308.2	2002.7	1798.2	1731.8	1694.5
17.5°	5839.6	4519.6	3592.2	3029.7	2536.2	2102.2	1647.5	1386.3	1263.3	1231.5	1231.5
20°	6210.0	4497.5	3329.6	2623.3	2008.3	1505.2	1132.0	982.7	942.6	938.5	949.5
22.5°	6729.7	4574.9	3133.3	2270.9	1560.4	1098.8	881.8	826.5	808.6	812.7	825.1
25°	7503.7	4836.1	2991.0	1957.1	1224.6	899.8	786.4	753.3	745.0	756.0	771.2
27.5°	8421.4	5097.3	2902.5	1720.8	1033.8	822.4	747.7	713.2	718.7	732.5	746.4
30°	9227.2	5311.6	2762.9	1552.1	974.4	826.5	747.7	700.7	695.2	698.0	702.1
32.5°	9950.1	5456.7	2599.8	1391.8	840.3	733.9	698.0	691.1	660.7	649.6	651.0
35°	10573.4	5456.7	2501.7	1297.8	753.3	651.0	592.9	558.4	543.2	544.6	559.8
37.5°	11174.6	5347.5	2453.3	1245.3	706.3	619.2	568.1	537.7	516.9	512.8	515.5
40°	11705.4	5188.6	2398.0	1223.2	670.3	599.9	551.5	526.6	504.5	497.6	499.0
42.5°	12131.1	5060.0	2337.2	1194.2	648.2	586.0	540.4	518.3	493.4	486.5	485.1
45°	12591.3	5017.2	2257.0	1136.1	659.3	587.4	537.7	514.2	489.3	481.0	478.2
47.5°	13198.1	5151.3	2174.1	1067.0	682.8	594.3	541.8	514.2	487.9	481.0	478.2
50°	13962.4	5466.4	2069.1	966.1	659.3	613.7	540.4	510.0	487.9	481.0	475.5
52.5°	14943.7	5892.1	1930.9	850.0	645.5	660.7	537.7	501.7	481.0	471.3	461.6
55°	16136.5	6240.4	1766.4	754.7	613.7	648.2	533.5	492.0	469.9	456.1	447.8
57.5°	17010.1	6366.2	1554.9	692.5	569.4	627.5	528.0	479.6	456.1	445.1	434.0
60°	16837.3	6122.9	1376.6	653.8	543.2	566.7	523.8	468.5	443.7	435.4	425.7
62.5°	15453.8	5487.1	1261.9	635.8	526.6	516.9	528.0	457.5	432.6	424.3	421.6
65°	13379.2	4548.6	1216.3	631.6	512.8	487.9	490.7	445.1	420.2	413.3	410.5
67.5°	11036.4	3671.0	1176.2	645.5	494.8	467.2	453.3	428.5	407.7	400.8	395.3
70°	8703.4	3053.2	1158.2	637.2	472.7	446.4	431.2	410.5	392.5	385.6	381.5
72.5°	7008.9	2579.1	1148.6	628.9	443.7	418.8	405.0	387.0	367.7	364.9	360.7
75°	5930.8	2027.6	1051.8	602.6	410.5	385.6	375.9	359.4	340.0	340.0	337.2
77.5°	4574.9	1466.5	874.9	533.5	375.9	348.3	340.0	327.6	305.5	309.6	308.2
80°	3379.3	956.4	684.2	442.3	333.1	306.8	302.7	290.3	266.8	272.3	272.3
82.5°	2315.1	627.5	492.0	362.1	284.7	259.8	259.8	247.4	221.1	223.9	232.2
85°	1162.4	431.2	367.7	280.6	221.1	208.7	208.7	199.0	172.8	174.2	185.2
87.5°	353.8	259.8	243.3	200.4	158.9	156.2	149.3	142.4	125.8	124.4	131.3
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°	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7
2.5°	7326.7	7248.0	7152.6	6942.5	6872.0	6867.9	6931.5	6865.1	6992.3	6938.4	6997.8
5°	5908.7	5831.3	5724.8	5456.7	5293.6	5183.0	5130.5	4975.7	5087.7	5006.1	5073.9
7.5°	4345.5	4363.4	4292.9	4135.4	3780.2	3601.9	3496.8	3402.8	3484.4	3476.1	3606.0
10°	3054.5	3102.9	3053.2	2894.2	2606.7	2508.6	2527.9	2565.3	2671.7	2727.0	2927.4
12.5°	2199.0	2196.2	2164.4	2022.1	1832.7	1843.8	1922.6	1987.5	2085.7	2143.7	2348.3
15°	1642.0	1617.1	1603.3	1487.2	1379.4	1402.9	1441.6	1448.5	1510.7	1545.2	1711.1
17.5°	1241.2	1253.6	1268.8	1185.9	1104.3	1089.1	1058.7	1021.4	1039.4	1046.3	1129.2
20°	985.5	1035.2	1072.5	1014.5	931.6	887.3	848.6	823.8	823.8	822.4	845.9
22.5°	861.1	897.0	937.1	897.0	822.4	783.7	761.6	742.2	739.4	739.4	761.6
25°	793.4	819.6	858.3	830.7	775.4	746.4	725.6	700.7	691.1	688.3	703.5
27.5°	760.2	771.2	790.6	765.7	718.7	704.9	699.4	677.3	664.8	657.9	673.1
30°	703.5	700.7	702.1	677.3	639.9	638.6	648.2	652.4	648.2	646.8	670.3
32.5°	651.0	645.5	644.1	622.0	587.4	579.1	587.4	595.7	605.4	619.2	646.8
35°	584.6	598.5	606.8	587.4	545.9	521.1	511.4	496.2	487.9	487.9	519.7
37.5°	532.1	563.9	576.4	558.4	512.8	478.2	461.6	458.9	460.3	465.8	496.2
40°	514.2	537.7	548.7	530.7	485.1	453.3	443.7	440.9	443.7	452.0	482.4
42.5°	503.1	519.7	518.3	496.2	458.9	436.8	431.2	428.5	431.2	439.5	472.7
45°	493.4	504.5	493.4	467.2	432.6	421.6	422.9	421.6	424.3	432.6	464.4
47.5°	485.1	489.3	475.5	449.2	413.3	410.5	416.0	420.2	422.9	429.8	463.0
50°	472.7	472.7	460.3	432.6	396.7	398.1	405.0	414.6	416.0	424.3	450.6
52.5°	457.5	456.1	447.8	421.6	382.9	387.0	387.0	398.1	400.8	410.5	438.1
55°	445.1	442.3	438.1	413.3	370.4	377.3	373.2	377.3	384.2	393.9	424.3
57.5°	434.0	428.5	428.5	406.4	360.7	363.5	353.8	359.4	367.7	375.9	407.7
60°	422.9	417.4	420.2	396.7	345.5	342.8	338.6	349.7	352.4	362.1	393.9
62.5°	410.5	406.4	407.7	385.6	334.5	327.6	327.6	337.2	338.6	352.4	382.9
65°	400.8	395.3	393.9	374.6	322.0	313.7	317.9	322.0	324.8	338.6	367.7
67.5°	391.1	380.1	380.1	364.9	308.2	299.9	308.2	306.8	311.0	323.4	346.9
70°	378.7	363.5	364.9	358.0	294.4	284.7	291.6	290.3	293.0	301.3	324.8
72.5°	359.4	346.9	349.7	346.9	280.6	266.8	269.5	269.5	269.5	276.4	301.3
75°	334.5	324.8	333.1	340.0	264.0	244.6	247.4	247.4	243.3	247.4	277.8
77.5°	304.1	298.5	326.2	316.5	244.6	221.1	221.1	218.4	210.1	215.6	248.8
80°	270.9	266.8	301.3	265.4	222.5	192.1	189.4	182.4	174.2	178.3	211.5
82.5°	236.3	232.2	252.9	203.2	192.1	158.9	152.0	139.6	131.3	135.5	165.9
85°	193.5	193.5	194.9	153.4	146.5	121.6	113.3	96.8	87.1	89.8	118.9
87.5°	138.2	142.4	131.3	105.0	87.1	67.7	62.2	52.5	44.2	51.1	62.2
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°	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7
2.5°	7301.9	7453.9	7626.7	7847.8	8037.2	8348.2	8646.7	8826.4
5°	5459.5	5712.4	6027.5	6432.5	6809.8	7376.5	7939.0	8299.8
7.5°	3907.3	4178.2	4518.2	5024.1	5557.6	6280.5	7024.1	7455.3
10°	3232.8	3510.6	3796.8	4138.1	4574.9	5361.3	6240.4	6726.9
12.5°	2674.4	2971.6	3279.8	3639.2	4044.2	4746.3	5759.4	6319.2
15°	2047.0	2378.7	2742.2	3196.9	3704.1	4515.5	5640.5	6248.7
17.5°	1402.9	1773.3	2219.7	2780.9	3401.5	4440.8	5853.4	6554.1
20°	966.1	1235.6	1712.5	2370.4	3116.7	4431.2	6262.5	7140.2
22.5°	808.6	928.8	1277.1	1993.1	2902.5	4550.0	6896.9	7962.5
25°	747.7	819.6	1020.0	1665.5	2746.3	4823.7	7770.4	9026.8
27.5°	711.8	776.8	926.0	1451.3	2623.3	5141.6	8620.4	10057.9
30°	725.6	792.0	899.8	1342.1	2456.1	5406.9	9375.1	10862.3
32.5°	653.8	682.8	771.2	1245.3	2335.8	5629.5	10035.8	11528.5
35°	557.0	608.1	688.3	1199.7	2338.6	5778.7	10755.8	12379.9
37.5°	530.7	581.9	639.9	1183.1	2370.4	5937.7	11582.4	13377.8
40°	514.2	561.2	610.9	1173.4	2400.8	6082.8	12392.3	14364.6
42.5°	503.1	545.9	608.1	1140.3	2416.0	6212.7	13058.5	15203.6
45°	501.7	545.9	619.2	1107.1	2439.5	6352.3	13616.9	15824.2
47.5°	503.1	563.9	598.5	1067.0	2439.5	6585.9	14272.0	16378.4
50°	497.6	594.3	576.4	1010.3	2382.8	7028.2	15170.4	17120.6
52.5°	494.8	590.2	533.5	923.3	2284.7	7730.3	16321.7	18143.4
55°	487.9	569.4	503.1	793.4	2170.0	8496.0	17554.6	19352.8
57.5°	481.0	504.5	486.5	680.0	1993.1	9035.1	18403.3	20296.8
60°	539.0	440.9	472.7	624.7	1756.7	9183.0	18370.1	20672.7
62.5°	499.0	413.3	454.7	612.3	1590.8	8768.3	17521.4	20469.6
65°	391.1	395.3	436.8	648.2	1546.6	7669.5	16017.7	19531.1
67.5°	358.0	377.3	418.8	693.8	1550.8	6140.9	13770.3	17486.9
70°	337.2	358.0	398.1	717.3	1561.8	4577.7	10887.2	14243.0
72.5°	313.7	331.7	374.6	721.5	1490.0	3325.4	8391.0	10472.5
75°	286.1	302.7	341.4	628.9	1234.3	2306.8	6418.7	7165.0
77.5°	254.3	266.8	299.9	485.1	916.4	1476.1	4818.2	5234.2
80°	217.0	223.9	251.6	355.2	627.5	923.3	3812.0	4200.3
82.5°	174.2	176.9	194.9	266.8	407.7	592.9	2552.8	2913.6
85°	123.0	123.0	134.1	193.5	277.8	375.9	1386.3	1536.9
87.5°	58.1	59.4	59.4	106.4	145.1	190.7	319.3	196.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)