

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: P191344

Luminaire Tested: **GLEON-AF-06-LED-E1-SLR-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191344
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-06-LED-E1-SLR-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35108.7 lumens
Efficiency: N/A
Efficacy: 91.9 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 - G5

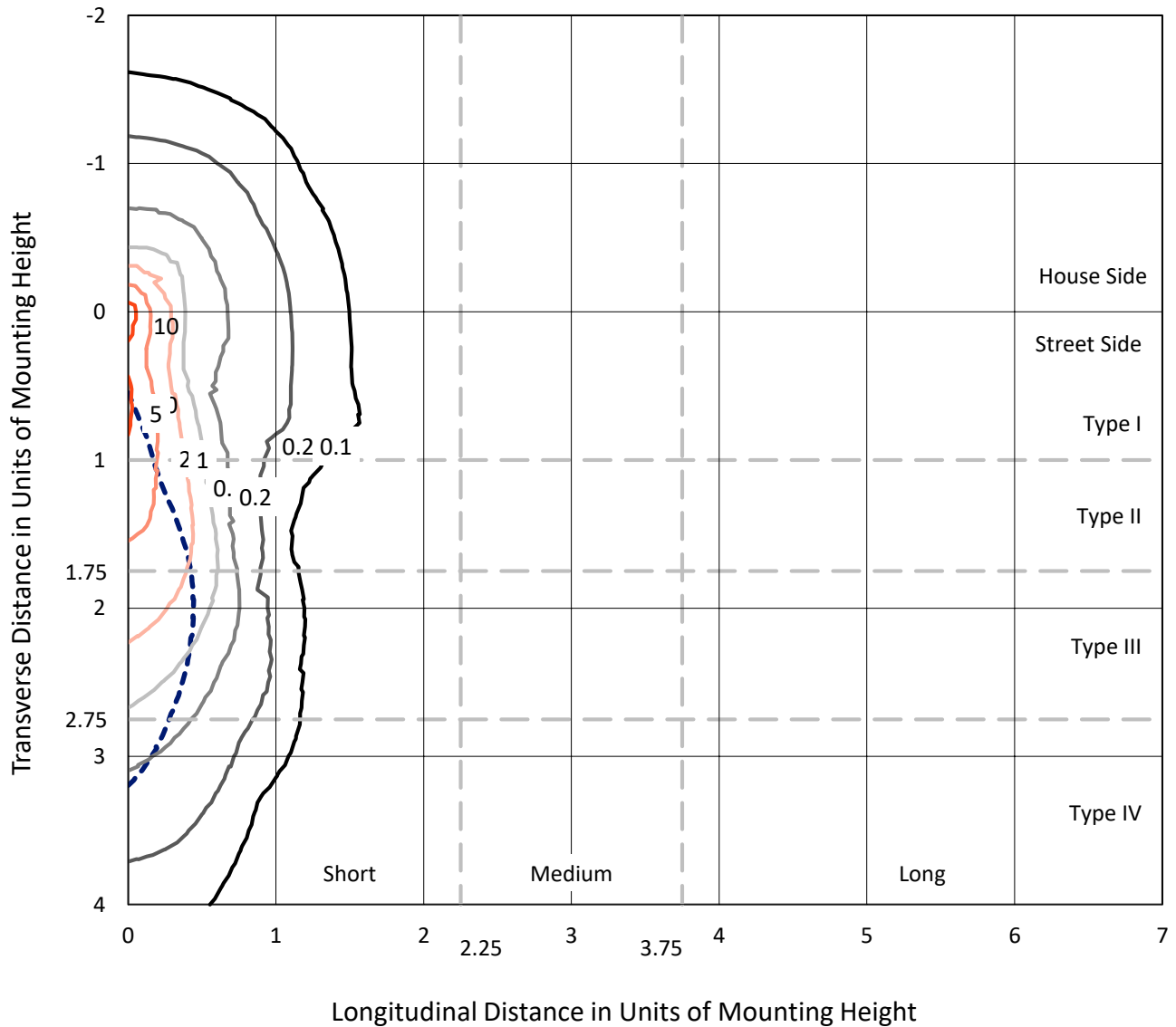
Input Watts (W): 382
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

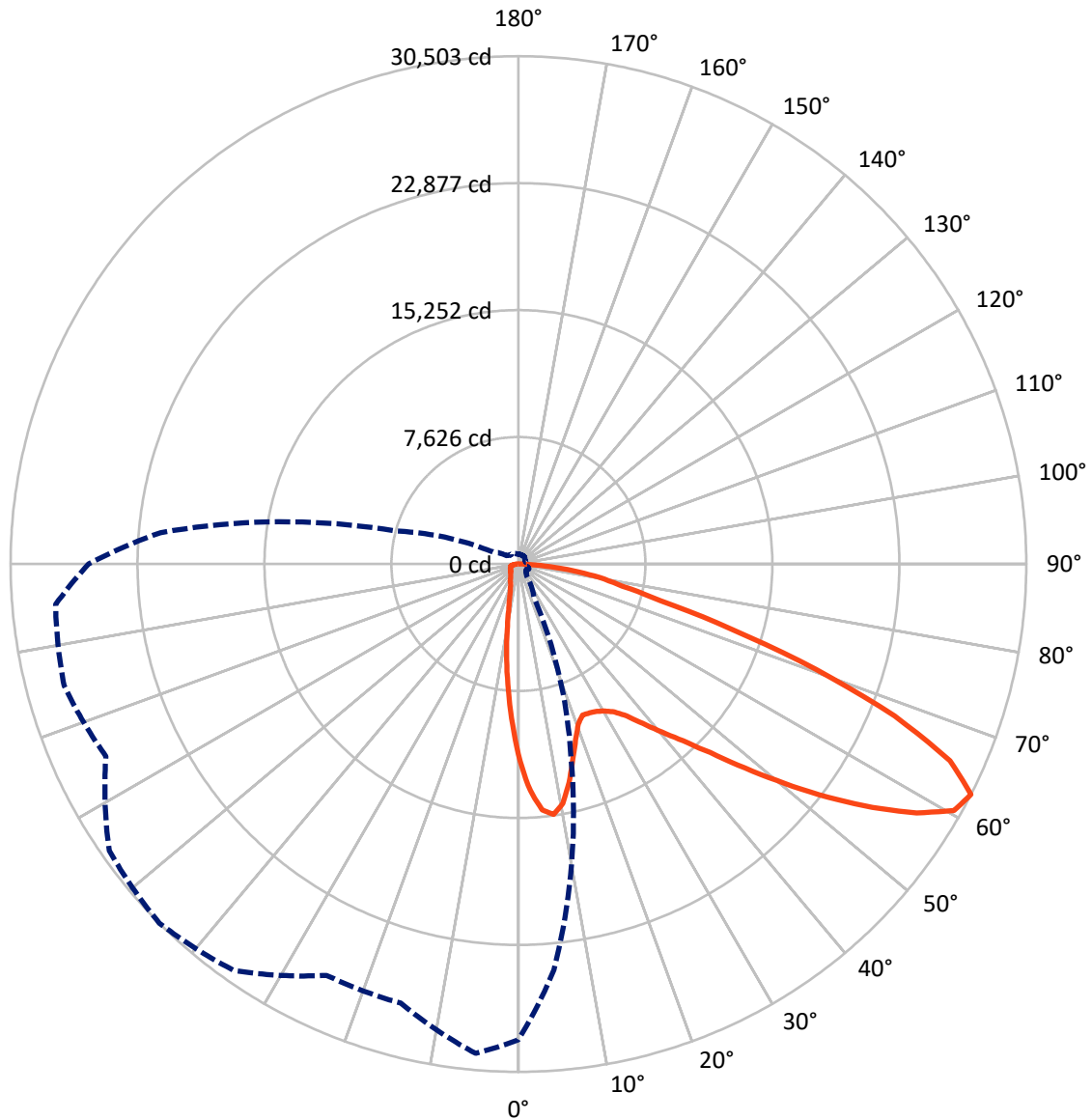
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5810.0	0.0	5810.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	29298.7	0.0	29298.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	35108.7	0.0	35108.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	863.5	2.5
10°-20°	1583.4	4.5
20°-30°	2308.6	6.6
30°-40°	3555.5	10.1
40°-50°	5232.8	14.9
50°-60°	7675.4	21.9
60°-70°	8579.9	24.4
70°-80°	4200.6	12.0
80°-90°	1109.1	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°	35108.7	100.0
0°-180°	35108.7	100.0

Coefficient of Utilization



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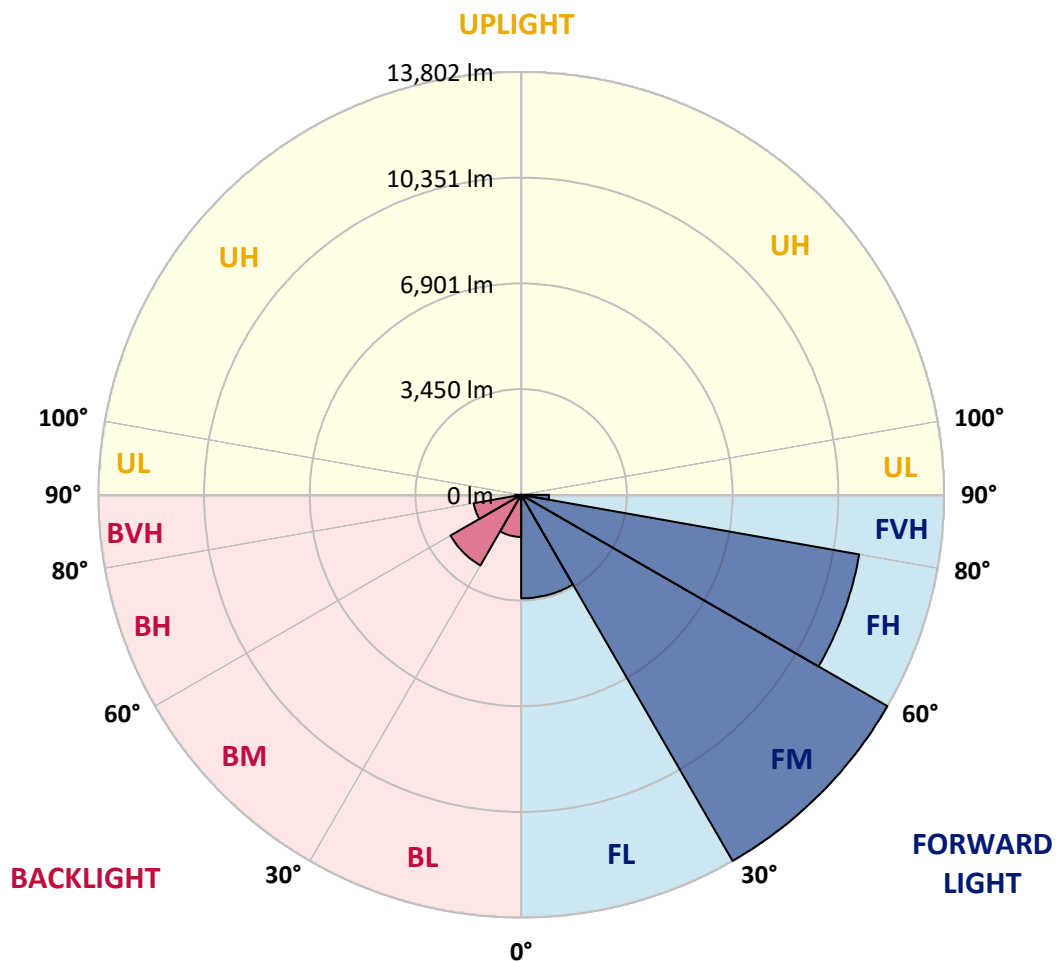
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3380.9	9.6			
FM (30°-60°)	13801.5	39.3			
FH (60°-80°)	11205.5	31.9			G4/12000
FVH (80°-90°)	910.8	2.6			G5
BL (0°-30°)	1374.6	3.9	B3/2500		
BM (30°-60°)	2662.1	7.6	B3/5000		
BH (60°-80°)	1575.1	4.5	B3/2500		G3/2500
BVH (80°-90°)	198.3	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°	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6
2.5°	12324.8	12073.9	11657.0	11222.8	10958.4	10649.6	10408.3	10196.1	9771.4	9688.5	9763.8
5°	11589.5	11085.7	10300.3	9508.9	8982.1	8416.6	7976.6	7623.4	7085.0	6990.3	7104.2
7.5°	10410.3	9808.2	8769.8	7760.4	7015.5	6309.0	5834.3	5456.0	5035.3	4853.9	4865.5
10°	9393.1	8713.8	7486.4	6388.2	5778.3	5301.6	4902.1	4514.2	4087.7	3807.8	3730.6
12.5°	8823.9	8042.2	6627.5	5647.1	5081.6	4579.9	4149.4	3734.5	3279.1	2993.4	2912.3
15°	8725.4	7876.2	6305.3	5172.3	4464.1	3829.1	3321.5	2858.3	2389.3	2157.7	2109.4
17.5°	9151.9	8173.5	6201.0	4749.7	3883.1	3099.5	2476.2	1959.0	1576.8	1461.0	1451.4
20°	9970.2	8744.7	6187.5	4352.0	3309.9	2391.2	1725.4	1349.1	1181.1	1148.4	1150.3
22.5°	11118.6	9630.6	6353.4	4052.9	2783.0	1783.3	1296.9	1129.0	1063.5	1032.6	1032.6
25°	12604.7	10850.3	6735.6	3834.8	2325.6	1424.4	1144.5	1044.1	982.3	961.2	964.9
27.5°	14044.4	12037.3	7179.5	3663.1	2026.5	1293.1	1084.6	993.9	939.9	918.7	928.3
30°	15167.7	13091.0	7550.1	3429.5	1874.0	1256.4	1105.9	1013.2	936.0	903.3	905.1
32.5°	16097.9	14013.5	7860.8	3261.7	1738.9	1077.0	953.4	912.9	903.3	864.6	845.4
35°	17286.7	15019.1	8069.2	3265.5	1675.2	961.2	849.2	777.7	725.7	681.3	681.3
37.5°	18680.2	16173.2	8291.1	3309.9	1652.1	893.5	812.5	741.1	692.8	650.4	642.7
40°	20058.2	17304.1	8493.8	3352.3	1638.6	853.0	783.6	717.9	673.5	631.1	619.5
42.5°	21229.7	18234.4	8675.2	3373.6	1592.2	849.2	762.3	702.5	660.0	613.8	602.1
45°	22096.2	19014.1	8870.1	3406.4	1545.9	864.6	762.3	700.6	648.4	604.1	592.5
47.5°	22870.2	19928.9	9196.3	3406.4	1489.9	835.6	787.5	702.5	646.5	600.3	590.5
50°	23906.6	21183.4	9813.9	3327.2	1410.9	804.8	829.9	694.8	629.2	592.5	580.9
52.5°	25334.7	22791.0	10794.4	3190.3	1289.2	745.0	824.1	690.9	611.8	573.2	559.7
55°	27023.5	24512.6	11863.6	3030.1	1107.8	702.5	795.1	681.3	592.5	550.0	536.5
57.5°	28341.7	25697.5	12616.3	2783.0	949.5	679.3	704.4	671.7	569.4	525.0	513.4
60°	28866.5	25651.2	12822.7	2453.0	872.4	660.0	615.6	752.7	550.0	505.6	492.1
62.5°	28582.9	24466.2	12243.7	2221.4	855.0	634.9	577.0	696.7	534.6	492.1	472.8
65°	27272.5	22366.4	10709.4	2159.7	905.1	609.9	552.0	546.2	513.4	472.8	453.6
67.5°	24418.0	19228.3	8574.9	2165.4	968.8	584.8	526.9	499.8	484.5	451.6	434.2
70°	19888.3	15202.4	6392.1	2180.8	1001.7	555.9	499.8	470.9	453.6	420.7	409.2
72.5°	14623.4	11716.9	4643.5	2080.5	1007.4	523.0	463.2	438.1	420.7	386.0	376.3
75°	10005.0	8962.8	3221.2	1723.5	878.1	476.7	422.7	399.5	387.9	345.5	339.7
77.5°	7308.8	6727.8	2061.2	1279.6	677.4	418.8	372.5	355.1	347.4	301.1	293.4
80°	5865.2	5322.8	1289.2	876.2	496.0	351.3	312.6	303.0	295.3	249.0	243.2
82.5°	4068.4	3564.7	828.0	569.4	372.5	272.1	247.0	243.2	231.6	189.1	183.3
85°	2146.2	1935.7	525.0	387.9	270.2	187.2	171.8	171.8	166.0	125.4	121.6
87.5°	274.0	445.8	266.4	202.6	148.6	83.0	83.0	81.0	86.8	71.4	61.8
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°	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6
2.5°	9586.2	9678.9	9590.1	9595.8	9694.3	9987.6	10120.8	10230.7	10348.5	10425.7	10460.5
5°	6947.9	7164.0	7237.4	7391.8	7619.6	7994.0	8142.6	8250.6	8322.0	8364.5	8381.9
7.5°	4751.6	4882.9	5029.5	5278.4	5774.5	5994.5	6092.9	6067.8	5986.8	5957.9	5928.9
10°	3582.1	3529.9	3502.9	3640.0	4041.4	4263.4	4332.8	4265.2	4220.9	4230.5	4278.8
12.5°	2775.3	2684.6	2574.6	2559.1	2823.5	3022.3	3066.7	3070.6	3151.6	3223.0	3329.2
15°	2022.6	2013.0	1959.0	1926.1	2076.7	2238.7	2258.1	2292.8	2366.2	2418.3	2510.9
17.5°	1426.3	1478.4	1520.8	1542.1	1656.0	1771.8	1750.5	1733.1	1719.6	1719.6	1764.0
20°	1150.3	1185.0	1239.0	1300.8	1416.6	1497.7	1445.5	1376.1	1325.8	1310.4	1316.2
22.5°	1036.4	1063.5	1094.3	1148.4	1252.5	1308.6	1252.5	1202.4	1152.1	1134.9	1129.0
25°	978.5	1013.2	1042.2	1082.7	1159.9	1198.5	1144.5	1107.8	1077.0	1055.7	1040.2
27.5°	945.7	976.6	984.3	1003.6	1069.2	1104.0	1077.0	1061.5	1042.2	1022.8	1003.6
30°	910.9	905.1	891.6	893.5	945.7	980.4	978.5	982.3	980.4	974.7	970.8
32.5°	831.9	820.2	808.6	820.2	868.5	899.4	901.3	909.0	909.0	907.1	922.5
35°	692.8	714.1	727.6	762.3	820.2	847.2	835.6	816.4	781.6	760.4	758.5
37.5°	640.8	644.6	667.8	716.1	779.7	804.8	787.5	743.1	719.9	716.1	721.8
40°	615.6	619.5	633.0	677.4	741.1	766.2	750.7	717.9	696.7	694.8	704.4
42.5°	598.3	602.1	609.9	640.8	692.8	723.7	725.7	702.5	677.4	679.3	689.0
45°	588.6	590.5	588.6	604.1	652.3	689.0	704.4	689.0	667.8	671.7	683.2
47.5°	586.7	580.9	573.2	577.0	627.3	663.9	683.2	677.4	667.8	671.7	681.3
50°	579.0	565.5	555.9	553.9	604.1	642.7	660.0	660.0	663.9	671.7	681.3
52.5°	555.9	540.4	540.4	534.6	588.6	625.3	636.9	638.8	644.6	658.2	671.7
55°	526.9	521.1	526.9	517.2	577.0	611.8	617.6	621.4	625.3	636.9	656.2
57.5°	501.8	494.1	507.6	503.7	567.4	598.3	598.3	606.0	606.0	621.4	636.9
60°	488.3	472.8	478.6	482.5	553.9	586.7	582.9	590.5	594.4	607.9	619.5
62.5°	470.9	457.4	457.4	467.1	538.5	569.4	567.4	573.2	588.6	592.5	604.1
65°	449.7	443.9	438.1	449.7	523.0	550.0	552.0	559.7	573.2	577.0	586.7
67.5°	428.4	430.4	418.8	430.4	509.5	530.7	530.7	546.2	552.0	559.7	569.4
70°	405.3	407.2	397.6	411.1	499.8	509.5	507.6	528.8	532.7	538.5	548.1
72.5°	376.3	376.3	372.5	391.8	484.5	488.3	484.5	501.8	503.7	509.5	513.4
75°	345.5	345.5	341.6	368.7	474.8	465.1	453.6	467.1	470.9	474.8	474.8
77.5°	304.9	308.8	308.8	341.6	441.9	455.5	416.9	424.6	430.4	432.3	426.6
80°	254.7	264.4	268.2	310.8	370.5	420.7	372.5	378.3	380.2	380.2	372.5
82.5°	195.0	212.3	222.0	268.2	283.7	353.2	324.3	330.0	324.3	312.6	308.8
85°	135.1	158.3	169.8	204.6	214.2	272.1	270.2	270.2	258.6	243.2	241.2
87.5°	73.3	86.8	94.5	121.6	146.7	183.3	198.8	193.0	183.3	173.7	175.6
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6
2.5°	10641.9	10904.3	11323.1	11643.5	11965.9	12276.5	12612.4	12869.0	13087.1	13172.0	13430.6
5°	8557.5	8885.6	9281.2	9995.4	10501.0	11058.7	11703.4	12556.4	12884.5	13338.1	14081.1
7.5°	6050.4	6347.7	6984.6	7561.7	8277.6	9067.0	9937.5	11114.7	11545.1	12272.6	13482.8
10°	4518.1	4863.5	5375.0	5861.3	6492.5	7299.2	8298.9	9615.1	10138.2	10927.5	12320.9
12.5°	3640.0	4047.1	4589.5	5046.8	5535.2	6104.5	7075.2	8518.9	9219.4	9910.4	11319.3
15°	2796.5	3223.0	3726.8	4307.7	4846.1	5459.9	6477.0	8055.7	8862.4	9582.3	10784.7
17.5°	1935.7	2300.5	2935.5	3541.5	4230.5	5016.0	6311.0	8154.1	9117.2	9947.1	10877.3
20°	1372.2	1580.7	2101.8	2804.2	3663.1	4649.3	6280.1	8671.3	9924.0	10871.5	11471.8
22.5°	1154.1	1231.3	1534.3	2179.0	3170.9	4375.3	6388.2	9397.0	11012.4	12222.5	12419.3
25°	1051.8	1098.1	1256.4	1710.0	2732.8	4176.5	6753.0	10477.8	12359.5	13573.5	13538.8
27.5°	995.8	1044.1	1148.4	1443.6	2402.8	4052.9	7117.7	11759.3	13899.7	15040.2	14607.9
30°	978.5	1044.1	1154.1	1360.6	2167.3	3858.1	7416.9	12884.5	15084.6	16030.4	15094.4
32.5°	964.9	974.7	1024.8	1173.4	1943.5	3630.2	7619.6	13893.8	16244.6	16972.2	15794.9
35°	779.7	828.0	909.0	1051.8	1812.3	3493.3	7619.6	14764.2	17387.1	17923.6	16462.7
37.5°	750.7	793.2	864.6	986.2	1738.9	3425.7	7467.0	15603.8	18554.8	19002.5	17012.7
40°	735.3	770.1	837.6	936.0	1708.0	3348.5	7245.2	16344.9	19695.4	20083.3	17526.1
42.5°	723.7	754.6	818.3	905.1	1667.5	3263.6	7065.6	16939.3	20685.4	21005.8	18016.3
45°	717.9	750.7	820.2	920.6	1586.4	3151.6	7005.8	17582.1	21499.9	21775.9	18547.0
47.5°	717.9	756.6	829.9	953.4	1489.9	3035.8	7193.0	18429.3	22269.9	22405.1	19172.3
50°	712.2	754.6	856.9	920.6	1349.1	2889.1	7633.1	19496.6	23103.7	23119.1	19963.6
52.5°	700.6	750.7	922.5	901.3	1186.9	2696.2	8227.5	20866.9	24336.9	24429.6	21202.7
55°	687.1	745.0	905.1	856.9	1053.7	2466.5	8713.8	22532.4	26070.1	26326.8	23024.6
57.5°	669.7	737.2	876.2	795.1	966.9	2171.2	8889.4	23752.2	27280.2	27924.7	25078.0
60°	654.3	731.4	791.3	758.5	912.9	1922.2	8549.8	23510.9	27197.2	28586.8	26898.0
62.5°	638.8	737.2	721.8	735.3	887.8	1762.0	7662.0	21579.0	25821.1	27903.5	28247.0
65°	621.4	685.2	681.3	716.1	882.0	1698.4	6351.5	18682.2	23161.6	25743.9	28565.5
67.5°	598.3	633.0	652.3	690.9	901.3	1642.4	5126.0	15410.9	19465.7	22507.4	26905.8
70°	573.2	602.1	623.4	660.0	889.8	1617.3	4263.4	12153.1	15445.5	18446.7	23630.6
72.5°	540.4	565.5	584.8	619.5	878.1	1603.8	3601.3	9786.9	11531.6	13702.8	19212.9
75°	501.8	525.0	538.5	573.2	841.5	1468.8	2831.2	8281.5	8628.9	9532.2	15302.7
77.5°	457.4	474.8	486.3	525.0	745.0	1221.7	2047.7	6388.2	6700.8	6920.9	11732.3
80°	405.3	422.7	428.4	465.1	617.6	955.3	1335.6	4718.8	5012.2	5062.3	7662.0
82.5°	345.5	362.8	362.8	397.6	505.6	687.1	876.2	3232.7	3290.6	3460.4	5415.5
85°	277.9	291.4	291.4	308.8	391.8	513.4	602.1	1623.1	1605.7	1833.4	4691.8
87.5°	198.8	208.5	218.1	222.0	279.9	339.7	362.8	494.1	326.1	374.4	3012.7
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6
2.5°	13625.6	13735.6	13623.7	13542.6	13193.3	12905.8	12521.6	12324.8
5°	14646.5	14926.4	14831.9	14492.1	13762.7	12942.4	12010.3	11589.5
7.5°	14523.0	15173.4	15188.9	14553.9	13478.9	12270.8	11008.6	10410.3
10°	13561.9	14393.7	14631.2	14015.4	12874.9	11523.8	10076.4	9393.1
12.5°	12488.9	13303.3	13484.7	13272.4	12319.0	10962.2	9493.5	8823.9
15°	11610.7	11975.5	12191.6	12376.9	11842.3	10738.3	9460.8	8725.4
17.5°	11076.1	11035.6	11097.4	11419.6	11510.3	10995.1	9962.5	9151.9
20°	10883.1	10263.6	10248.1	10692.1	11354.0	11606.8	10942.9	9970.2
22.5°	10989.3	9985.6	9858.3	10385.2	11437.0	12488.9	12228.4	11118.6
25°	11356.0	10008.9	9906.6	10416.1	11738.1	13428.8	13616.0	12604.7
27.5°	11933.0	10155.5	10020.4	10543.5	12137.6	14218.1	14982.3	14044.4
30°	12481.1	10410.3	10242.4	10794.4	12502.4	14530.7	15819.9	15167.7
32.5°	13147.0	10887.0	10591.7	11255.6	12953.9	15028.7	16566.9	16097.9
35°	13799.3	11566.3	11199.7	11967.7	13457.7	15648.2	17419.9	17286.7
37.5°	14515.4	12454.1	12151.1	12888.4	14146.7	16233.0	18508.5	18680.2
40°	15279.6	13631.4	13272.4	14231.6	15215.9	16966.4	19645.2	20058.2
42.5°	16049.7	14937.9	14509.5	15482.3	16391.3	17690.1	20617.9	21229.7
45°	16931.7	16356.5	16153.8	17205.7	17520.3	18379.2	21335.9	22096.2
47.5°	17958.4	17966.1	18292.3	18713.0	18658.9	19158.8	22057.7	22870.2
50°	19156.9	19975.2	20695.1	20974.9	19832.4	19996.4	23059.4	23906.6
52.5°	20596.7	22378.1	23269.7	23086.4	21096.5	21019.3	24645.7	25334.7
55°	22397.3	24921.7	25807.6	25676.4	22549.8	22412.8	26622.0	27023.5
57.5°	24481.7	27386.3	28200.7	27610.2	24294.5	23941.3	28256.8	28341.7
60°	26313.3	29339.5	30053.5	29399.3	26054.7	25568.2	29277.7	28866.5
62.5°	27332.2	30001.4	30503.2	29798.8	27260.8	27301.4	29501.6	28582.9
65°	26876.8	28328.2	28490.2	28432.3	26950.2	28306.9	28696.7	27272.5
67.5°	24383.3	24097.7	24369.8	24746.1	24286.8	26983.0	26467.6	24418.0
70°	19990.6	18421.6	18963.9	19216.7	19425.1	23219.4	22972.4	19888.3
72.5°	15065.4	12905.8	13334.2	13282.1	14247.0	18624.3	17865.7	14623.4
75°	10674.7	8750.5	8804.5	8783.3	9941.2	14571.3	12936.6	10005.0
77.5°	7469.0	6339.9	6368.9	6488.6	6683.4	10989.3	9242.7	7308.8
80°	5135.6	4811.4	4971.6	4981.3	4631.9	7382.1	6828.2	5865.2
82.5°	3825.2	3344.6	3306.1	3362.0	3630.2	5981.0	5247.6	4068.4
85°	3132.4	1980.1	1592.2	1995.6	3217.3	5923.1	3485.5	2146.2
87.5°	1764.0	939.9	424.6	787.5	1283.4	3921.7	1007.4	274.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)