

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: P192094

Luminaire Tested: **GLEON-AF-06-LED-E1-SLL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192094
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-SLL-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1050mA 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: 31286 lumens
Efficiency: N/A
Efficacy: 94.0 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

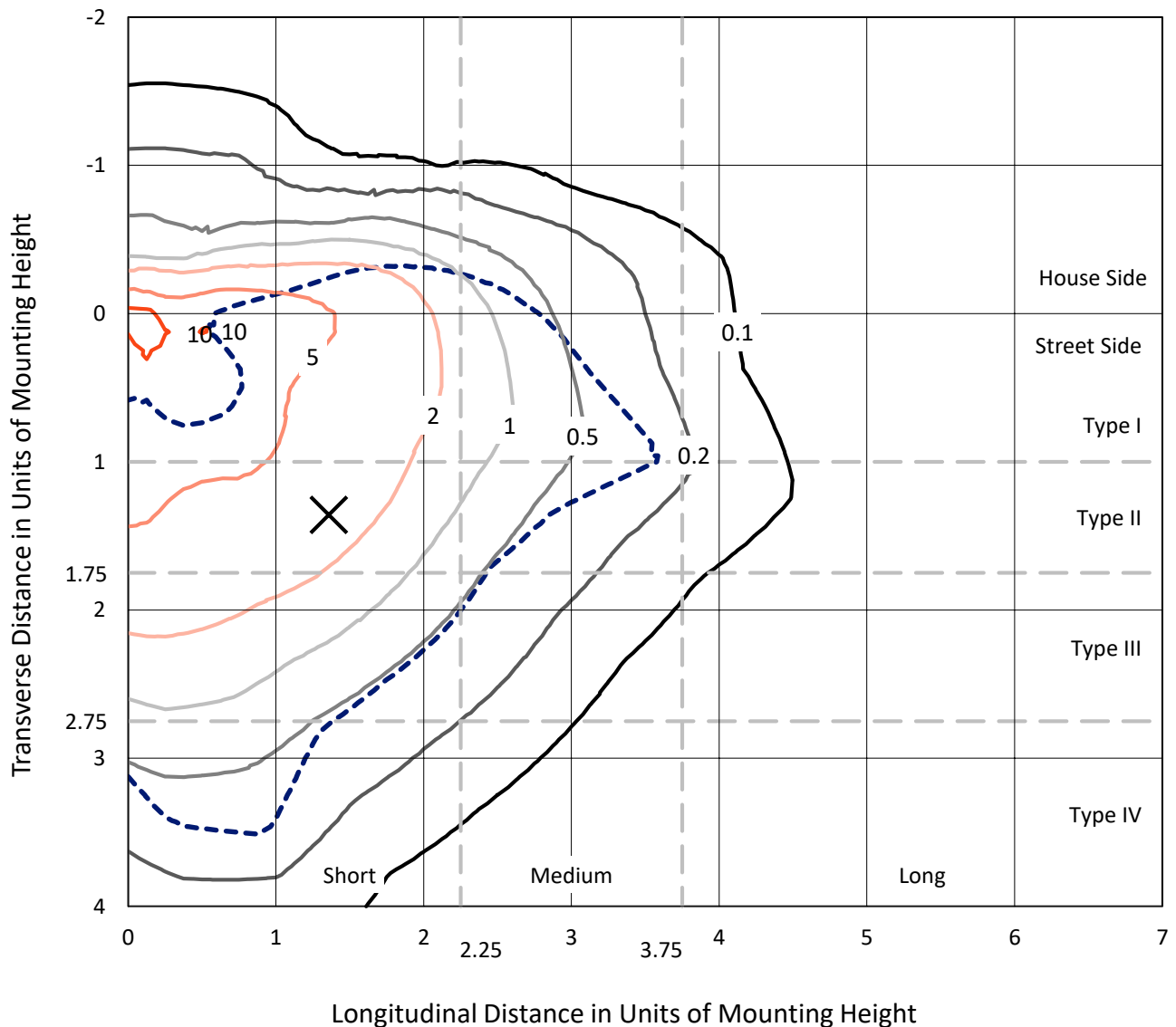
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

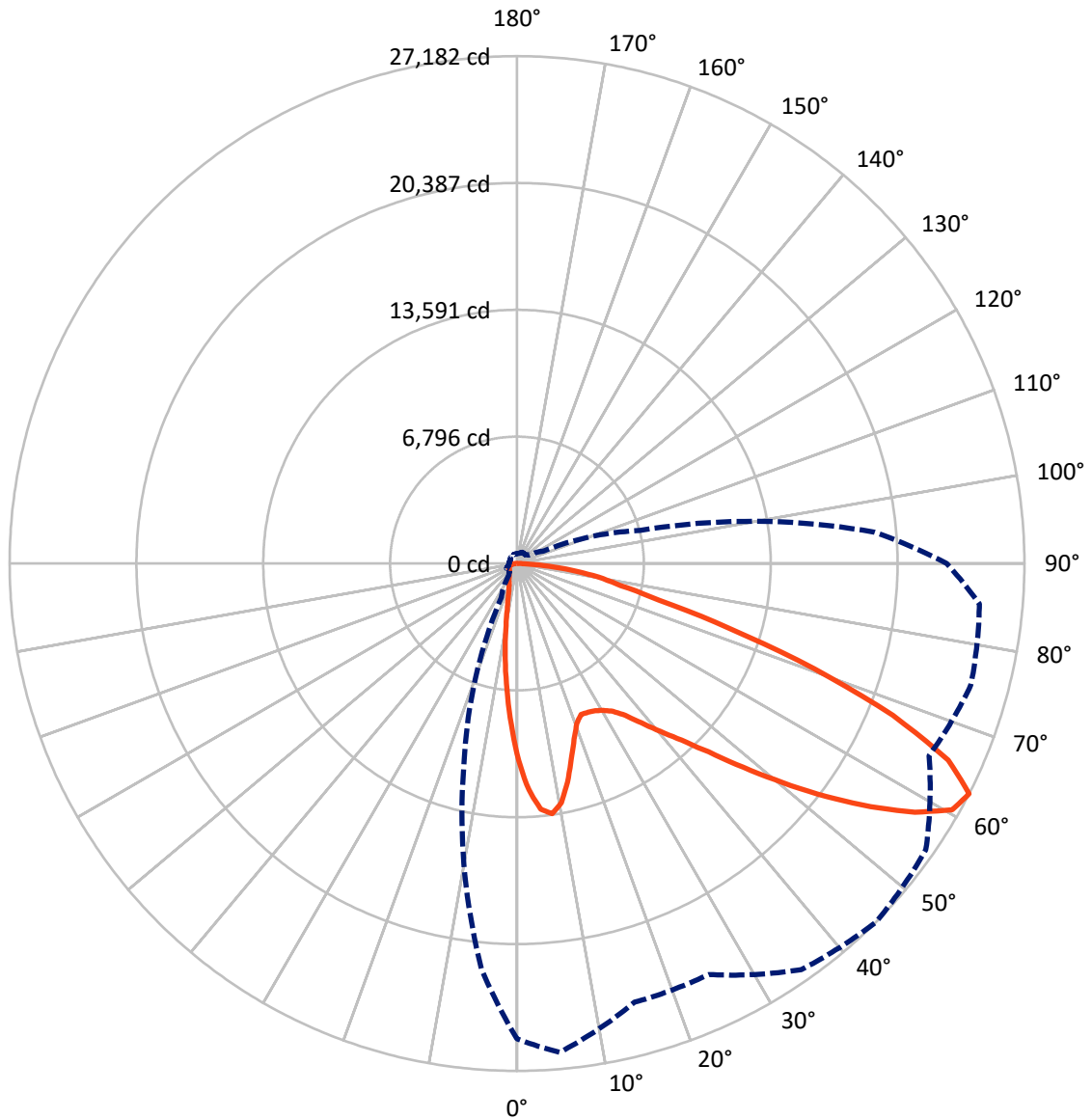
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.8 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	5177.4	0.0	5177.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	26108.6	0.0	26108.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	31286.0	0.0	31286.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.5	2.5
10°-20°	1411.0	4.5
20°-30°	2057.2	6.6
30°-40°	3168.4	10.1
40°-50°	4663.0	14.9
50°-60°	6839.7	21.9
60°-70°	7645.8	24.4
70°-80°	3743.3	12.0
80°-90°	988.3	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°	31286.0	100.0
0°-180°	31286.0	100.0



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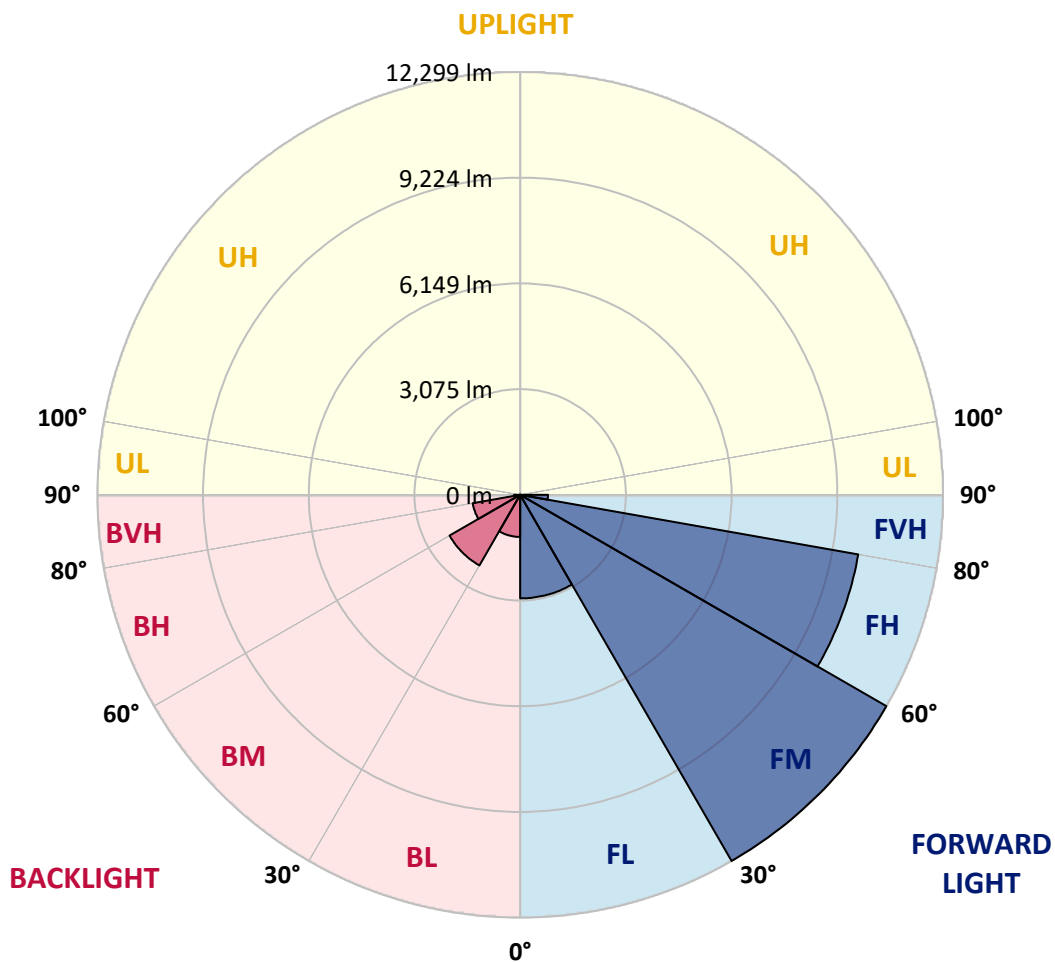
CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3012.7	9.6			
FM	(30°-60°)	12298.8	39.3			
FH	(60°-80°)	9985.4	31.9			G4/12000
FVH	(80°-90°)	811.6	2.6			G5
BL	(0°-30°)	1224.9	3.9	B3/2500		
BM	(30°-60°)	2372.3	7.6	B2/2500		
BH	(60°-80°)	1403.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	176.7	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1
2.5°	10982.9	11158.3	11500.5	11756.8	12068.1	12140.3	12240.1	12142.0	11968.3	11737.9	11662.2
5°	10327.6	10702.5	11533.2	12264.1	12914.2	13216.9	13301.2	13051.8	12547.9	11885.8	11481.6
7.5°	9276.8	9809.9	10934.7	12011.3	12969.3	13535.1	13521.3	12941.7	12014.8	10936.4	10288.0
10°	8370.4	8979.3	10269.1	11473.0	12489.4	13038.1	12826.5	12085.3	10979.4	9737.7	9034.3
12.5°	7863.1	8459.9	9768.7	10977.7	11827.3	12016.5	11854.8	11129.0	10086.8	8831.3	8215.6
15°	7775.4	8430.6	9569.2	10552.9	11029.3	10864.2	10671.6	10346.5	9610.4	8539.0	7897.5
17.5°	8155.4	8877.8	9797.9	10257.1	10176.3	9889.0	9834.0	9870.1	9693.0	8864.0	8124.5
20°	8884.7	9751.5	10343.1	10117.8	9527.9	9132.3	9146.1	9698.1	10222.7	9687.8	8843.4
22.5°	9908.0	10896.9	11129.0	10191.7	9254.4	8784.9	8898.4	9792.7	11067.1	10891.7	9813.4
25°	11232.2	12133.4	11966.6	10460.0	9281.9	8827.9	8919.1	10119.5	12064.6	12095.6	11013.8
27.5°	12515.2	13351.1	12670.0	10816.0	9395.4	8929.4	9049.8	10633.7	13017.4	13402.7	12386.2
30°	13516.2	14097.5	12948.6	11141.1	9619.0	9127.2	9276.8	11122.2	13450.8	14284.9	13442.2
32.5°	14345.1	14763.0	13392.3	11543.5	10030.1	9438.4	9701.6	11715.5	14075.1	15124.2	14475.8
35°	15404.5	15523.2	13944.4	11992.4	10664.7	9980.2	10307.0	12296.8	14670.2	15972.1	15494.0
37.5°	16646.3	16493.2	14465.5	12606.4	11485.0	10828.1	11098.1	12934.9	15160.3	16933.5	16534.5
40°	17874.2	17506.2	15119.1	13559.2	12682.1	11827.3	12147.2	13615.9	15617.8	17896.6	17550.9
42.5°	18918.2	18373.0	15764.0	14606.5	13796.5	12929.7	13311.5	14302.1	16054.6	18718.7	18433.2
45°	19690.4	19012.8	16378.0	15612.6	15332.3	14395.0	14575.6	15088.1	16527.6	19404.9	19158.9
47.5°	20380.0	19656.0	17072.8	16627.3	16675.5	16300.6	16009.9	16003.0	17084.8	19965.5	19845.2
50°	21303.6	20548.6	17819.2	17673.0	18691.1	18441.8	17800.3	17071.1	17790.0	20601.9	20588.1
52.5°	22576.3	21962.3	18730.7	18799.5	20572.6	20736.0	19941.5	18354.1	18894.1	21769.7	21687.1
55°	24081.1	23723.4	19972.4	20094.5	22880.7	22997.6	22208.2	19958.7	20517.6	23460.2	23231.5
57.5°	25255.8	25180.1	21334.5	21649.3	24603.9	25130.2	24404.4	21816.1	22347.5	24884.3	24309.8
60°	25723.5	26089.9	22784.4	23217.8	26198.2	26781.2	26144.9	23448.2	23969.3	25474.2	24235.9
62.5°	25470.7	26289.4	24328.8	24292.6	26554.2	27182.0	26734.8	24356.3	25171.5	24865.4	23009.7
65°	24303.0	25572.2	25224.8	24015.8	25336.6	25388.2	25243.7	23950.4	25455.3	22940.9	20639.7
67.5°	21759.3	23585.8	24045.0	21642.4	22051.7	21716.3	21473.8	21728.4	23976.2	20056.7	17346.2
70°	17722.9	20471.2	20691.3	17310.1	17124.4	16899.1	16415.8	17814.0	21057.6	16438.2	13763.8
72.5°	13031.2	15920.5	16596.4	12695.8	11835.9	11882.3	11500.5	13425.0	17120.9	12210.8	10276.0
75°	8915.6	11528.0	12984.7	8858.9	7827.0	7845.9	7797.7	9512.4	13636.6	8494.3	7689.4
77.5°	6513.0	8236.3	9792.7	5955.8	5782.1	5675.5	5649.7	6655.8	10454.9	6167.3	5971.3
80°	5226.6	6084.8	6578.4	4127.6	4438.9	4430.3	4287.5	4576.5	6827.7	4511.1	4466.4
82.5°	3625.4	4676.2	5329.8	3235.0	2995.9	2946.1	2980.5	3408.7	4825.9	3083.7	2932.3
85°	1912.5	3106.0	5278.2	2867.0	1778.3	1418.9	1764.5	2791.3	4180.9	1633.8	1430.9
87.5°	244.2	897.8	3494.7	1143.7	701.7	378.4	837.6	1571.9	2684.7	333.6	290.7
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°	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1
2.5°	11467.8	11239.1	10939.9	10663.0	10375.8	10090.3	9717.1	9483.2	9321.5	9290.5	9221.7
5°	11189.2	10429.1	9854.6	9357.6	8907.0	8270.7	7918.1	7625.7	7469.2	7453.8	7415.9
7.5°	9904.5	8855.4	8079.8	7376.4	6738.3	6224.1	5656.5	5391.7	5283.3	5309.1	5334.9
10°	8568.2	7395.3	6504.4	5785.5	5223.1	4789.7	4334.0	4026.1	3812.9	3769.9	3761.3
12.5°	7591.3	6304.9	5439.8	4932.5	4497.4	4089.8	3606.5	3243.6	2966.7	2872.1	2808.5
15°	7178.6	5771.8	4865.4	4318.5	3838.7	3321.0	2872.1	2492.0	2237.5	2155.0	2108.5
17.5°	7266.3	5623.9	4469.8	3769.9	3155.9	2615.9	2050.0	1725.0	1571.9	1532.4	1532.4
20°	7727.2	5596.3	4143.1	3264.2	2498.9	1872.9	1408.5	1222.8	1172.9	1167.8	1181.5
22.5°	8373.9	5692.6	3898.9	2825.7	1941.7	1367.3	1097.3	1028.5	1006.1	1011.3	1026.7
25°	9337.0	6017.7	3721.7	2435.3	1523.8	1119.6	978.6	937.3	927.0	940.7	959.7
27.5°	10478.9	6342.7	3611.7	2141.2	1286.4	1023.3	930.4	887.4	894.3	911.5	928.7
30°	11481.6	6609.3	3437.9	1931.4	1212.5	1028.5	930.4	872.0	865.1	868.5	873.7
32.5°	12381.1	6789.9	3235.0	1731.9	1045.7	913.2	868.5	859.9	822.1	808.3	810.0
35°	13156.7	6789.9	3112.9	1614.9	937.3	810.0	737.8	694.8	675.9	677.6	696.5
37.5°	13904.9	6654.0	3052.7	1549.6	878.8	770.5	706.9	669.0	643.2	638.1	641.5
40°	14565.3	6456.3	2983.9	1522.1	834.1	746.4	686.2	655.3	627.7	619.1	620.9
42.5°	15095.0	6296.3	2908.2	1485.9	806.6	729.2	672.5	644.9	614.0	605.4	603.7
45°	15667.7	6243.0	2808.5	1413.7	820.4	730.9	669.0	639.8	608.8	598.5	595.1
47.5°	16422.7	6409.8	2705.3	1327.7	849.6	739.5	674.2	639.8	607.1	598.5	595.1
50°	17373.8	6801.9	2574.6	1202.2	820.4	763.6	672.5	634.6	607.1	598.5	591.6
52.5°	18594.8	7331.6	2402.6	1057.7	803.2	822.1	669.0	624.3	598.5	586.5	574.4
55°	20079.1	7765.0	2197.9	939.0	763.6	806.6	663.9	612.3	584.7	567.5	557.2
57.5°	21166.0	7921.6	1934.8	861.6	708.6	780.8	657.0	596.8	567.5	553.8	540.0
60°	20951.0	7618.9	1713.0	813.5	675.9	705.1	651.8	583.0	552.1	541.7	529.7
62.5°	19229.5	6827.7	1570.2	791.1	655.3	643.2	657.0	569.3	538.3	528.0	524.5
65°	16648.0	5660.0	1513.5	786.0	638.1	607.1	610.5	553.8	522.8	514.2	510.8
67.5°	13732.9	4567.9	1463.6	803.2	615.7	581.3	564.1	533.1	507.4	498.8	491.9
70°	10829.8	3799.1	1441.2	792.8	588.2	555.5	536.6	510.8	488.4	479.8	474.7
72.5°	8721.3	3209.2	1429.2	782.5	552.1	521.1	503.9	481.6	457.5	454.0	448.9
75°	7379.8	2523.0	1308.8	749.8	510.8	479.8	467.8	447.2	423.1	423.1	419.6
77.5°	5692.6	1824.7	1088.7	663.9	467.8	433.4	423.1	407.6	380.1	385.2	383.5
80°	4205.0	1190.1	851.3	550.3	414.5	381.8	376.6	361.2	331.9	338.8	338.8
82.5°	2880.7	780.8	612.3	450.6	354.3	323.3	323.3	307.9	275.2	278.6	288.9
85°	1446.4	536.6	457.5	349.1	275.2	259.7	259.7	247.7	215.0	216.7	230.5
87.5°	440.3	323.3	302.7	249.4	197.8	194.3	185.7	177.1	156.5	154.8	163.4
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°	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1
2.5°	9116.8	9018.8	8900.1	8638.7	8551.0	8545.9	8625.0	8542.4	8700.6	8633.6	8707.5
5°	7352.3	7256.0	7123.5	6789.9	6587.0	6449.4	6384.0	6191.4	6330.7	6229.2	6313.5
7.5°	5407.2	5429.5	5341.8	5145.7	4703.7	4481.9	4351.2	4234.2	4335.7	4325.4	4487.0
10°	3800.8	3861.0	3799.1	3601.3	3243.6	3121.5	3145.6	3192.0	3324.4	3393.2	3642.6
12.5°	2736.3	2732.8	2693.3	2516.1	2280.5	2294.3	2392.3	2473.1	2595.2	2667.5	2922.0
15°	2043.2	2012.2	1995.0	1850.5	1716.4	1745.6	1793.8	1802.4	1879.8	1922.8	2129.2
17.5°	1544.4	1559.9	1578.8	1475.6	1374.1	1355.2	1317.4	1271.0	1293.3	1301.9	1405.1
20°	1226.2	1288.2	1334.6	1262.4	1159.2	1104.1	1056.0	1025.0	1025.0	1023.3	1052.5
22.5°	1071.5	1116.2	1166.0	1116.2	1023.3	975.1	947.6	923.6	920.1	920.1	947.6
25°	987.2	1019.9	1068.0	1033.6	964.8	928.7	902.9	872.0	859.9	856.5	875.4
27.5°	945.9	959.7	983.7	952.8	894.3	877.1	870.2	842.7	827.2	818.6	837.6
30°	875.4	872.0	873.7	842.7	796.3	794.6	806.6	811.8	806.6	804.9	834.1
32.5°	810.0	803.2	801.4	773.9	730.9	720.6	730.9	741.2	753.3	770.5	804.9
35°	727.5	744.7	755.0	730.9	679.3	648.4	636.3	617.4	607.1	607.1	646.7
37.5°	662.1	701.7	717.2	694.8	638.1	595.1	574.4	571.0	572.7	579.6	617.4
40°	639.8	669.0	682.8	660.4	603.7	564.1	552.1	548.6	552.1	562.4	600.2
42.5°	626.0	646.7	644.9	617.4	571.0	543.5	536.6	533.1	536.6	546.9	588.2
45°	614.0	627.7	614.0	581.3	538.3	524.5	526.3	524.5	528.0	538.3	577.9
47.5°	603.7	608.8	591.6	558.9	514.2	510.8	517.7	522.8	526.3	534.9	576.1
50°	588.2	588.2	572.7	538.3	493.6	495.3	503.9	516.0	517.7	528.0	560.7
52.5°	569.3	567.5	557.2	524.5	476.4	481.6	481.6	495.3	498.8	510.8	545.2
55°	553.8	550.3	545.2	514.2	460.9	469.5	464.4	469.5	478.1	490.2	528.0
57.5°	540.0	533.1	533.1	505.6	448.9	452.3	440.3	447.2	457.5	467.8	507.4
60°	526.3	519.4	522.8	493.6	430.0	426.5	421.4	435.1	438.6	450.6	490.2
62.5°	510.8	505.6	507.4	479.8	416.2	407.6	407.6	419.6	421.4	438.6	476.4
65°	498.8	491.9	490.2	466.1	400.7	390.4	395.6	400.7	404.2	421.4	457.5
67.5°	486.7	473.0	473.0	454.0	383.5	373.2	383.5	381.8	387.0	402.4	431.7
70°	471.2	452.3	454.0	445.4	366.3	354.3	362.9	361.2	364.6	374.9	404.2
72.5°	447.2	431.7	435.1	431.7	349.1	331.9	335.4	335.4	335.4	344.0	374.9
75°	416.2	404.2	414.5	423.1	328.5	304.4	307.9	307.9	302.7	307.9	345.7
77.5°	378.4	371.5	405.9	393.8	304.4	275.2	275.2	271.7	261.4	268.3	309.6
80°	337.1	331.9	374.9	330.2	276.9	239.1	235.6	227.0	216.7	221.9	263.1
82.5°	294.1	288.9	314.7	252.8	239.1	197.8	189.2	173.7	163.4	168.5	206.4
85°	240.8	240.8	242.5	190.9	182.3	151.3	141.0	120.4	108.3	111.8	147.9
87.5°	172.0	177.1	163.4	130.7	108.3	84.3	77.4	65.4	55.0	63.6	77.4
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°	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1
2.5°	9085.9	9275.1	9490.0	9765.2	10000.8	10387.8	10759.3	10982.9
5°	6793.3	7108.1	7500.2	8004.1	8473.6	9178.8	9878.7	10327.6
7.5°	4862.0	5199.1	5622.1	6251.6	6915.5	7814.9	8740.2	9276.8
10°	4022.7	4368.4	4724.4	5149.2	5692.6	6671.2	7765.0	8370.4
12.5°	3327.9	3697.6	4081.2	4528.3	5032.2	5905.9	7166.5	7863.1
15°	2547.1	2959.8	3412.1	3978.0	4609.2	5618.7	7018.6	7775.4
17.5°	1745.6	2206.5	2762.1	3460.3	4232.5	5525.8	7283.5	8155.4
20°	1202.2	1537.5	2130.9	2949.5	3878.2	5513.8	7792.6	8884.7
22.5°	1006.1	1155.7	1589.1	2480.0	3611.7	5661.7	8582.0	9908.0
25°	930.4	1019.9	1269.2	2072.4	3417.3	6002.2	9668.9	11232.2
27.5°	885.7	966.5	1152.3	1805.8	3264.2	6397.8	10726.6	12515.2
30°	902.9	985.5	1119.6	1670.0	3056.1	6728.0	11665.6	13516.2
32.5°	813.5	849.6	959.7	1549.6	2906.5	7004.9	12487.7	14345.1
35°	693.1	756.7	856.5	1492.8	2910.0	7190.6	13383.7	15404.5
37.5°	660.4	724.0	796.3	1472.2	2949.5	7388.4	14412.2	16646.3
40°	639.8	698.3	760.2	1460.1	2987.4	7569.0	15420.0	17874.2
42.5°	626.0	679.3	756.7	1418.9	3006.3	7730.7	16249.0	18918.2
45°	624.3	679.3	770.5	1377.6	3035.5	7904.4	16943.8	19690.4
47.5°	626.0	701.7	744.7	1327.7	3035.5	8195.0	17759.0	20380.0
50°	619.1	739.5	717.2	1257.2	2965.0	8745.4	18876.9	21303.6
52.5°	615.7	734.4	663.9	1148.8	2842.9	9619.0	20309.5	22576.3
55°	607.1	708.6	626.0	987.2	2700.1	10571.8	21843.6	24081.1
57.5°	598.5	627.7	605.4	846.2	2480.0	11242.6	22899.6	25255.8
60°	670.7	548.6	588.2	777.4	2185.9	11426.6	22858.3	25723.5
62.5°	620.9	514.2	565.8	761.9	1979.5	10910.6	21802.3	25470.7
65°	486.7	491.9	543.5	806.6	1924.5	9543.4	19931.1	24303.0
67.5°	445.4	469.5	521.1	863.4	1929.7	7641.2	17134.7	21759.3
70°	419.6	445.4	495.3	892.6	1943.4	5696.1	13547.1	17722.9
72.5°	390.4	412.8	466.1	897.8	1854.0	4137.9	10441.1	13031.2
75°	356.0	376.6	424.8	782.5	1535.8	2870.4	7986.9	8915.6
77.5°	316.4	331.9	373.2	603.7	1140.2	1836.8	5995.3	6513.0
80°	270.0	278.6	313.0	442.0	780.8	1148.8	4743.3	5226.6
82.5°	216.7	220.1	242.5	331.9	507.4	737.8	3176.5	3625.4
85°	153.1	153.1	166.8	240.8	345.7	467.8	1725.0	1912.5
87.5°	72.2	74.0	74.0	132.4	180.6	237.3	397.3	244.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)