

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: P194648

Luminaire Tested: **GLEON-AF-10-LED-E1-SLL-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194648
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-10-LED-E1-SLL-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 1200mA 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: 56798 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 640
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

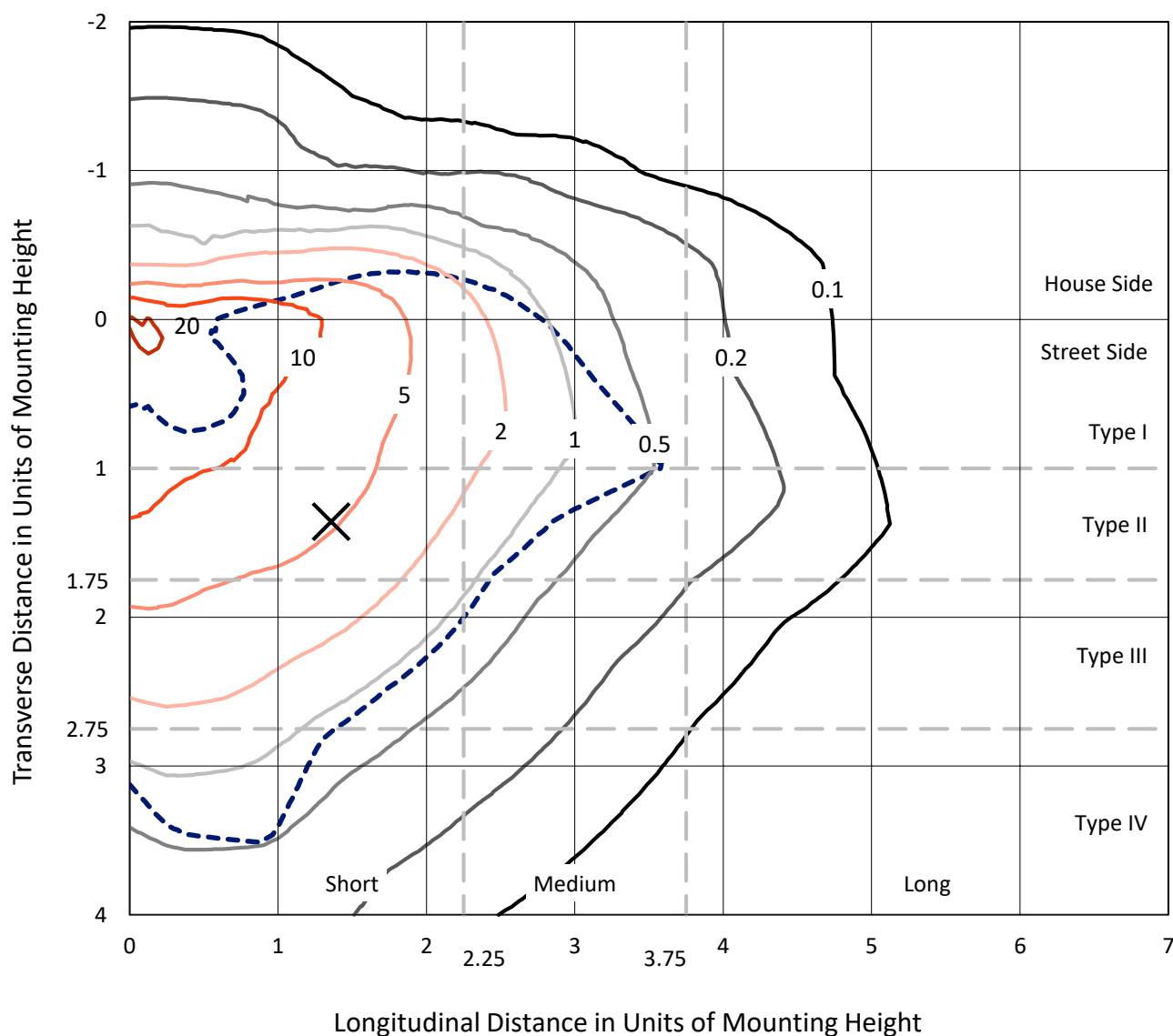


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

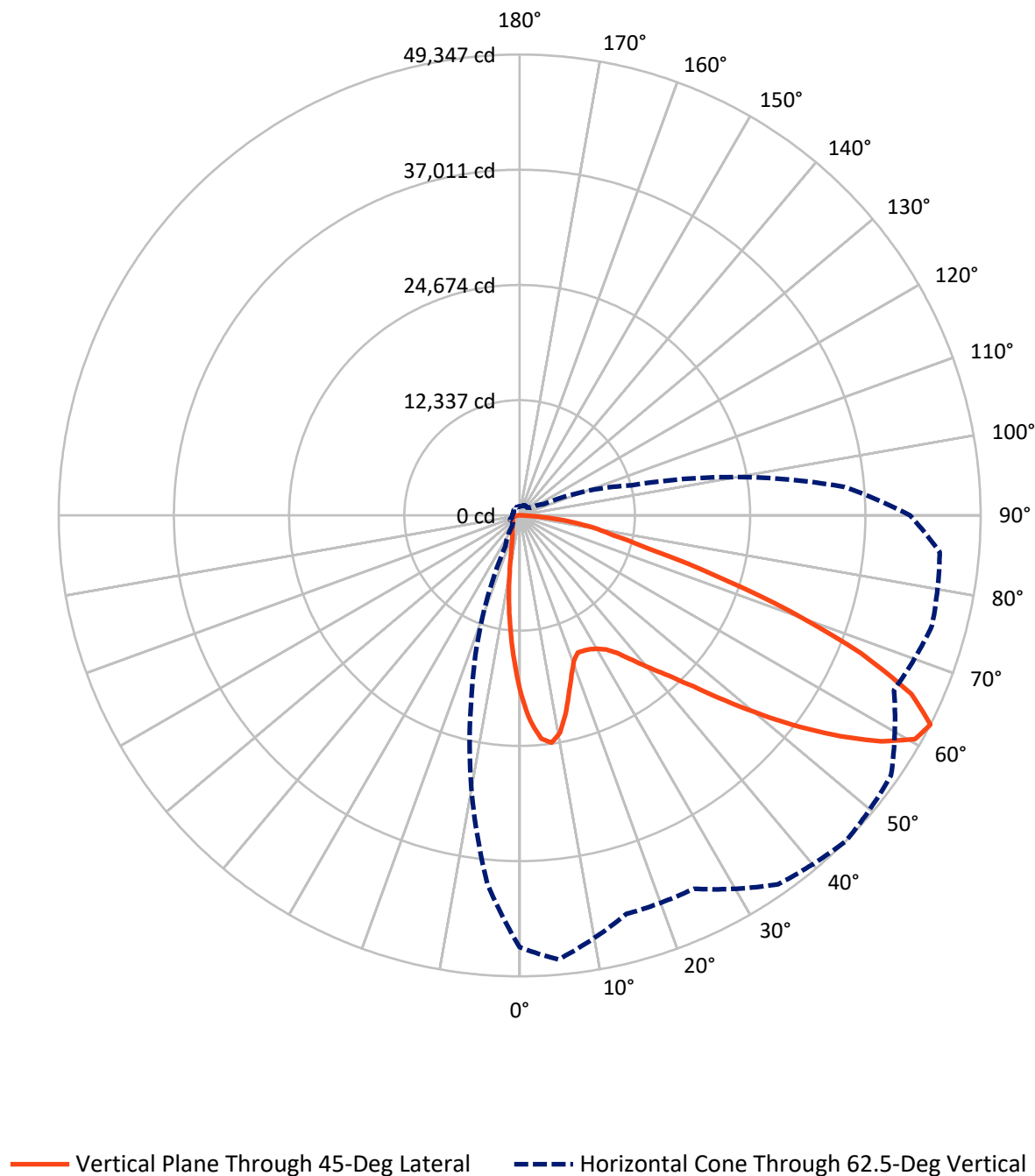


Based on 30 foot mounting height. Maximum calculated value = 25.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9399.3	0.0	9399.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	47398.7	0.0	47398.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	56798.0	0.0	56798.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1396.9	2.5
10°-20°	2561.5	4.5
20°-30°	3734.7	6.6
30°-40°	5752.0	10.1
40°-50°	8465.5	14.9
50°-60°	12417.0	21.9
60°-70°	13880.4	24.4
70°-80°	6795.7	12.0
80°-90°	1794.2	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°	56798.0	100.0
0°-180°	56798.0	100.0

Coefficient of Utilization



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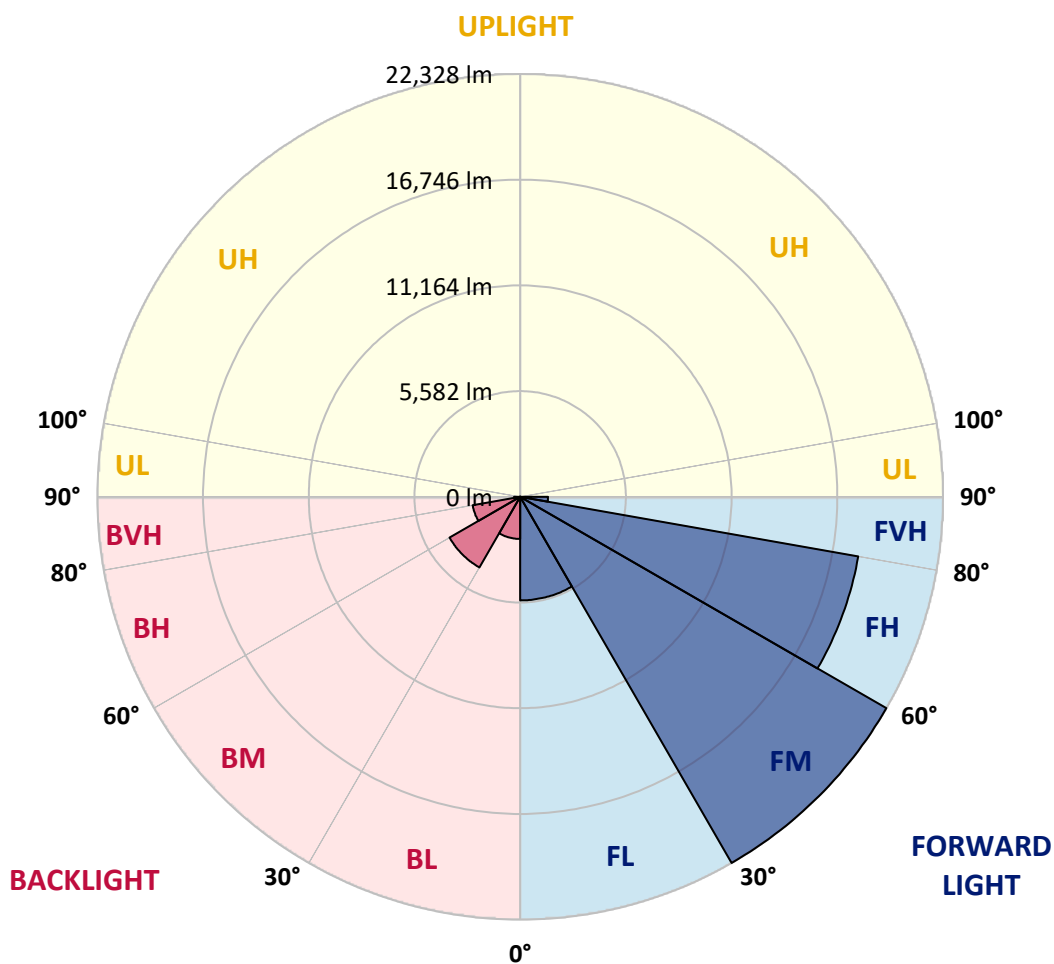
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5469.5	9.6			
FM	(30°-60°)	22327.8	39.3			
FH	(60°-80°)	18128.0	31.9			G5
FVH	(80°-90°)	1473.5	2.6			G5
BL	(0°-30°)	2223.7	3.9	B3/2500		
BM	(30°-60°)	4306.7	7.6	B3/5000		
BH	(60°-80°)	2548.1	4.5	B4/5000		G4/5000
BVH	(80°-90°)	320.7	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4
2.5°	19938.8	20257.2	20878.6	21343.8	21908.9	22040.0	22221.1	22043.2	21727.8	21309.4	21172.1
5°	18749.2	19429.8	20937.9	22264.9	23445.1	23994.6	24147.6	23694.8	22780.0	21578.0	20844.2
7.5°	16841.5	17809.4	19851.3	21805.9	23545.0	24572.2	24547.2	23495.0	21812.1	19854.5	18677.4
10°	15196.1	16301.3	18643.0	20828.6	22673.9	23669.9	23285.8	21940.1	19932.5	17678.2	16401.2
12.5°	14275.0	15358.4	17734.4	19929.4	21471.8	21815.2	21521.8	20204.2	18312.1	16032.8	14915.0
15°	14115.7	15305.3	17372.3	19158.2	20023.1	19723.3	19373.6	18783.5	17447.2	15502.0	14337.4
17.5°	14805.8	16117.1	17787.5	18621.2	18474.4	17953.0	17853.1	17918.7	17597.1	16092.1	14749.6
20°	16129.6	17703.2	18777.3	18368.3	17297.3	16579.2	16604.2	17606.4	18558.7	17587.7	16054.7
22.5°	17987.4	19782.7	20204.2	18502.5	16800.9	15948.5	16154.6	17778.2	20091.8	19773.3	17815.6
25°	20391.5	22027.6	21724.7	18989.6	16850.8	16026.6	16192.1	18371.4	21902.7	21958.9	19995.0
27.5°	22720.7	24238.1	23001.7	19635.9	17056.9	16210.8	16429.3	19304.9	23632.4	24331.8	22486.5
30°	24537.9	25593.2	23507.5	20226.0	17462.8	16569.8	16841.5	20191.7	24419.2	25933.5	24403.6
32.5°	26042.8	26801.5	24313.1	20956.6	18209.0	17135.0	17612.7	21268.9	25552.6	27457.2	26280.1
35°	27966.1	28181.5	25315.3	21771.5	19361.1	18118.5	18711.7	22324.2	26632.9	28996.4	28128.5
37.5°	30220.4	29942.5	26261.3	22886.2	20850.5	19657.8	20148.0	23482.5	27522.7	30741.8	30017.4
40°	32449.7	31781.5	27447.8	24615.9	23023.6	21471.8	22052.5	24719.0	28353.3	32490.3	31862.7
42.5°	34344.9	33355.1	28618.7	26517.4	25046.8	23473.2	24166.3	25964.7	29146.3	33982.7	33464.4
45°	35746.8	34516.6	29733.3	28343.9	27835.0	26133.3	26461.2	27391.6	30004.9	35228.5	34782.0
47.5°	36998.8	35684.3	30994.7	30186.0	30273.5	29592.8	29065.1	29052.7	31016.6	36246.3	36027.8
50°	38675.5	37304.8	32349.8	32084.4	33932.7	33480.0	32315.4	30991.6	32296.7	37401.6	37376.6
52.5°	40985.9	39871.3	34004.6	34129.4	37348.5	37645.1	36202.6	33320.8	34301.2	39521.6	39371.7
55°	43717.9	43068.5	36258.8	36480.5	41538.6	41750.9	40317.8	36233.9	37248.6	42590.8	42175.5
57.5°	45850.4	45713.0	38731.7	39303.0	44667.1	45622.5	44304.9	39605.9	40570.7	45176.0	44133.2
60°	46699.7	47364.7	41363.7	42150.5	47561.4	48619.9	47464.6	42568.9	43515.0	46246.9	43998.9
62.5°	46240.7	47726.9	44167.5	44102.0	48207.7	49347.4	48535.6	44217.5	45697.4	45141.7	41772.7
65°	44120.7	46424.9	45794.2	43599.3	45997.2	46090.8	45828.6	43480.6	46212.6	41647.9	37470.3
67.5°	39502.9	42818.7	43652.3	39290.5	40033.6	39424.8	38984.6	39446.7	43527.5	36411.8	31491.1
70°	32174.9	37164.3	37563.9	31425.6	31088.4	30679.3	29802.0	32340.4	38229.0	29842.6	24987.5
72.5°	23657.4	28902.8	30129.8	23048.5	21487.4	21571.7	20878.6	24372.4	31082.1	22168.1	18655.5
75°	16185.8	20928.5	23573.1	16082.8	14209.4	14243.8	14156.3	17269.2	24756.4	15420.9	13959.6
77.5°	11824.0	14952.5	17778.2	10812.4	10497.0	10303.5	10256.6	12083.2	18980.2	11196.4	10840.5
80°	9488.6	11046.6	11942.7	7493.4	8058.6	8042.9	7783.8	8308.3	12395.4	8189.7	8108.5
82.5°	6581.7	8489.4	9675.9	5873.0	5439.0	5348.4	5410.9	6188.3	8761.1	5598.2	5323.5
85°	3472.0	5638.8	9582.2	5204.8	3228.4	2575.9	3203.4	5067.4	7590.2	2966.1	2597.7
87.5°	443.4	1629.8	6344.4	2076.3	1273.9	686.9	1520.5	2853.7	4873.9	605.7	527.7
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°	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4
2.5°	20819.2	20404.0	19860.7	19358.0	18836.6	18318.3	17640.8	17216.2	16922.7	16866.5	16741.6
5°	20313.4	18933.4	17890.6	16988.2	16170.2	15015.0	14374.9	13844.1	13560.0	13531.9	13463.2
7.5°	17981.1	16076.5	14668.4	13391.4	12233.0	11299.5	10269.1	9788.3	9591.6	9638.4	9685.3
10°	15555.1	13425.7	11808.4	10503.3	9482.3	8695.5	7868.1	7309.2	6922.1	6844.0	6828.4
12.5°	13781.7	11446.2	9875.7	8954.6	8164.7	7424.7	6547.4	5888.6	5385.9	5214.2	5098.7
15°	13032.3	10478.3	8832.9	7840.0	6968.9	6029.1	5214.2	4524.2	4062.1	3912.2	3827.9
17.5°	13191.6	10209.8	8114.8	6844.0	5729.4	4749.0	3721.7	3131.6	2853.7	2781.9	2781.9
20°	14028.3	10159.8	7521.5	5926.1	4536.6	3400.1	2557.1	2219.9	2129.4	2120.0	2145.0
22.5°	15202.3	10334.7	7078.2	5129.9	3525.0	2482.2	1992.0	1867.1	1826.5	1835.9	1864.0
25°	16950.8	10924.8	6756.6	4421.1	2766.3	2032.6	1776.6	1701.6	1682.9	1707.9	1742.2
27.5°	19023.9	11514.9	6556.8	3887.2	2335.5	1857.7	1689.1	1611.1	1623.6	1654.8	1686.0
30°	20844.2	11998.9	6241.4	3506.3	2201.2	1867.1	1689.1	1583.0	1570.5	1576.7	1586.1
32.5°	22477.2	12326.7	5873.0	3144.1	1898.3	1657.9	1576.7	1561.1	1492.4	1467.5	1470.6
35°	23885.3	12326.7	5651.3	2931.8	1701.6	1470.6	1339.5	1261.4	1227.0	1230.2	1264.5
37.5°	25243.5	12080.0	5542.0	2813.2	1595.5	1398.8	1283.2	1214.6	1167.7	1158.4	1164.6
40°	26442.4	11721.0	5417.1	2763.2	1514.3	1355.1	1245.8	1189.6	1139.6	1124.0	1127.1
42.5°	27404.1	11430.6	5279.7	2697.6	1464.3	1323.8	1220.8	1170.8	1114.6	1099.0	1095.9
45°	28443.8	11333.8	5098.7	2566.5	1489.3	1327.0	1214.6	1161.5	1105.3	1086.5	1080.3
47.5°	29814.5	11636.7	4911.3	2410.4	1542.4	1342.6	1223.9	1161.5	1102.2	1086.5	1080.3
50°	31541.1	12348.5	4674.0	2182.5	1489.3	1386.3	1220.8	1152.1	1102.2	1086.5	1074.1
52.5°	33757.9	13310.2	4361.8	1920.2	1458.1	1492.4	1214.6	1133.4	1086.5	1064.7	1042.8
55°	36452.4	14097.0	3990.3	1704.8	1386.3	1464.3	1205.2	1111.5	1061.6	1030.3	1011.6
57.5°	38425.7	14381.1	3512.5	1564.3	1286.4	1417.5	1192.7	1083.4	1030.3	1005.4	980.4
60°	38035.4	13831.6	3109.8	1476.8	1227.0	1280.1	1183.3	1058.4	1002.2	983.5	961.7
62.5°	34910.0	12395.4	2850.6	1436.2	1189.6	1167.7	1192.7	1033.5	977.3	958.5	952.3
65°	30223.5	10275.4	2747.6	1426.9	1158.4	1102.2	1108.4	1005.4	949.2	933.6	927.3
67.5°	24931.3	8292.7	2657.0	1458.1	1117.8	1055.3	1024.1	967.9	921.1	905.5	893.0
70°	19660.9	6897.1	2616.5	1439.4	1067.8	1008.5	974.1	927.3	886.7	871.1	861.7
72.5°	15833.0	5826.1	2594.6	1420.6	1002.2	946.0	914.8	874.2	830.5	824.3	814.9
75°	13397.6	4580.4	2376.0	1361.3	927.3	871.1	849.3	811.8	768.1	768.1	761.8
77.5°	10334.7	3312.7	1976.4	1205.2	849.3	786.8	768.1	740.0	690.0	699.4	696.3
80°	7633.9	2160.6	1545.5	999.1	752.5	693.1	683.8	655.7	602.6	615.1	615.1
82.5°	5229.8	1417.5	1111.5	818.0	643.2	587.0	587.0	558.9	499.6	505.8	524.5
85°	2625.8	974.1	830.5	633.8	499.6	471.5	471.5	449.6	390.3	393.4	418.4
87.5°	799.3	587.0	549.5	452.7	359.1	352.8	337.2	321.6	284.1	281.0	296.6
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°	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4
2.5°	16551.1	16373.1	16157.7	15683.1	15523.9	15514.5	15658.1	15508.3	15795.5	15673.8	15808.0
5°	13347.7	13172.8	12932.4	12326.7	11958.3	11708.5	11589.8	11240.1	11493.0	11308.8	11461.8
7.5°	9816.4	9857.0	9697.7	9341.8	8539.4	8136.6	7899.3	7687.0	7871.2	7852.5	8146.0
10°	6900.2	7009.5	6897.1	6538.0	5888.6	5666.9	5710.6	5794.9	6035.3	6160.2	6613.0
12.5°	4967.5	4961.3	4889.5	4567.9	4140.1	4165.1	4343.1	4489.8	4711.5	4842.6	5304.7
15°	3709.2	3653.0	3621.8	3359.6	3116.0	3169.1	3256.5	3272.1	3412.6	3490.7	3865.4
17.5°	2803.8	2831.9	2866.2	2678.9	2494.7	2460.3	2391.7	2307.4	2347.9	2363.6	2550.9
20°	2226.2	2338.6	2422.9	2291.7	2104.4	2004.5	1917.1	1860.9	1860.9	1857.7	1910.8
22.5°	1945.2	2026.3	2116.9	2026.3	1857.7	1770.3	1720.4	1676.7	1670.4	1670.4	1720.4
25°	1792.2	1851.5	1938.9	1876.5	1751.6	1686.0	1639.2	1583.0	1561.1	1554.9	1589.2
27.5°	1717.2	1742.2	1785.9	1729.7	1623.6	1592.4	1579.9	1529.9	1501.8	1486.2	1520.5
30°	1589.2	1583.0	1586.1	1529.9	1445.6	1442.5	1464.3	1473.7	1464.3	1461.2	1514.3
32.5°	1470.6	1458.1	1455.0	1405.0	1327.0	1308.2	1327.0	1345.7	1367.6	1398.8	1461.2
35°	1320.7	1351.9	1370.7	1327.0	1233.3	1177.1	1155.2	1120.9	1102.2	1102.2	1174.0
37.5°	1202.1	1273.9	1302.0	1261.4	1158.4	1080.3	1042.8	1036.6	1039.7	1052.2	1120.9
40°	1161.5	1214.6	1239.5	1198.9	1095.9	1024.1	1002.2	996.0	1002.2	1021.0	1089.7
42.5°	1136.5	1174.0	1170.8	1120.9	1036.6	986.6	974.1	967.9	974.1	992.9	1067.8
45°	1114.6	1139.6	1114.6	1055.3	977.3	952.3	955.4	952.3	958.5	977.3	1049.1
47.5°	1095.9	1105.3	1074.1	1014.7	933.6	927.3	939.8	949.2	955.4	971.0	1046.0
50°	1067.8	1067.8	1039.7	977.3	896.1	899.2	914.8	936.7	939.8	958.5	1017.9
52.5°	1033.5	1030.3	1011.6	952.3	864.9	874.2	874.2	899.2	905.5	927.3	989.8
55°	1005.4	999.1	989.8	933.6	836.8	852.4	843.0	852.4	868.0	889.8	958.5
57.5°	980.4	967.9	967.9	917.9	814.9	821.2	799.3	811.8	830.5	849.3	921.1
60°	955.4	942.9	949.2	896.1	780.6	774.3	765.0	789.9	796.2	818.0	889.8
62.5°	927.3	917.9	921.1	871.1	755.6	740.0	740.0	761.8	765.0	796.2	864.9
65°	905.5	893.0	889.8	846.1	727.5	708.8	718.1	727.5	733.7	765.0	830.5
67.5°	883.6	858.6	858.6	824.3	696.3	677.5	696.3	693.1	702.5	730.6	783.7
70°	855.5	821.2	824.3	808.7	665.0	643.2	658.8	655.7	661.9	680.7	733.7
72.5°	811.8	783.7	789.9	783.7	633.8	602.6	608.8	608.8	608.8	624.5	680.7
75°	755.6	733.7	752.5	768.1	596.4	552.6	558.9	558.9	549.5	558.9	627.6
77.5°	686.9	674.4	736.9	715.0	552.6	499.6	499.6	493.3	474.6	487.1	562.0
80°	612.0	602.6	680.7	599.5	502.7	434.0	427.7	412.1	393.4	402.8	477.7
82.5°	533.9	524.5	571.4	459.0	434.0	359.1	343.4	315.3	296.6	306.0	374.7
85°	437.1	437.1	440.2	346.6	331.0	274.8	256.0	218.6	196.7	202.9	268.5
87.5°	312.2	321.6	296.6	237.3	196.7	153.0	140.5	118.6	99.9	115.5	140.5
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°	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4
2.5°	16494.9	16838.4	17228.6	17728.2	18156.0	18858.5	19532.9	19938.8
5°	12332.9	12904.3	13616.2	14531.0	15383.4	16663.5	17934.3	18749.2
7.5°	8826.6	9438.6	10206.7	11349.4	12554.6	14187.6	15867.3	16841.5
10°	7303.0	7930.5	8576.9	9348.1	10334.7	12111.3	14097.0	15196.1
12.5°	6041.6	6712.9	7409.1	8220.9	9135.7	10721.8	13010.5	14275.0
15°	4624.1	5373.4	6194.6	7221.8	8367.7	10200.4	12742.0	14115.7
17.5°	3169.1	4005.9	5014.4	6282.0	7683.9	10031.8	13222.8	14805.8
20°	2182.5	2791.3	3868.5	5354.7	7040.7	10010.0	14147.0	16129.6
22.5°	1826.5	2098.2	2885.0	4502.3	6556.8	10278.5	15580.1	17987.4
25°	1689.1	1851.5	2304.2	3762.3	6203.9	10896.7	17553.4	20391.5
27.5°	1608.0	1754.7	2091.9	3278.4	5926.1	11614.8	19473.5	22720.7
30°	1639.2	1789.1	2032.6	3031.7	5548.3	12214.3	21178.3	24537.9
32.5°	1476.8	1542.4	1742.2	2813.2	5276.6	12717.0	22670.7	26042.8
35°	1258.3	1373.8	1554.9	2710.1	5282.9	13054.2	24297.4	27966.1
37.5°	1198.9	1314.5	1445.6	2672.7	5354.7	13413.2	26164.6	30220.4
40°	1161.5	1267.6	1380.0	2650.8	5423.4	13741.1	27994.2	32449.7
42.5°	1136.5	1233.3	1373.8	2575.9	5457.7	14034.6	29499.1	34344.9
45°	1133.4	1233.3	1398.8	2500.9	5510.8	14349.9	30760.5	35746.8
47.5°	1136.5	1273.9	1351.9	2410.4	5510.8	14877.6	32240.5	36998.8
50°	1124.0	1342.6	1302.0	2282.4	5382.8	15876.7	34270.0	38675.5
52.5°	1117.8	1333.2	1205.2	2085.7	5161.1	17462.8	36870.8	40985.9
55°	1102.2	1286.4	1136.5	1792.2	4902.0	19192.5	39655.9	43717.9
57.5°	1086.5	1139.6	1099.0	1536.2	4502.3	20410.2	41572.9	45850.4
60°	1217.7	996.0	1067.8	1411.3	3968.4	20744.3	41498.0	46699.7
62.5°	1127.1	933.6	1027.2	1383.2	3593.7	19807.6	39580.9	46240.7
65°	883.6	893.0	986.6	1464.3	3493.8	17325.4	36183.9	44120.7
67.5°	808.7	852.4	946.0	1567.4	3503.2	13872.2	31107.1	39502.9
70°	761.8	808.7	899.2	1620.5	3528.2	10340.9	24594.1	32174.9
72.5°	708.8	749.3	846.1	1629.8	3365.8	7512.2	18955.3	23657.4
75°	646.3	683.8	771.2	1420.6	2788.2	5211.1	14499.8	16185.8
77.5°	574.5	602.6	677.5	1095.9	2070.1	3334.6	10884.2	11824.0
80°	490.2	505.8	568.3	802.4	1417.5	2085.7	8611.2	9488.6
82.5°	393.4	399.6	440.2	602.6	921.1	1339.5	5766.8	6581.7
85°	277.9	277.9	302.9	437.1	627.6	849.3	3131.6	3472.0
87.5°	131.1	134.3	134.3	240.4	327.8	430.9	721.2	443.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)