

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: P193027

Luminaire Tested: **GLEON-AF-09-LED-E1-SLL-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193027
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-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA 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: 36542.9 lumens
Efficiency: N/A
Efficacy: 97.7 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 - G5

Input Watts (W): 374
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

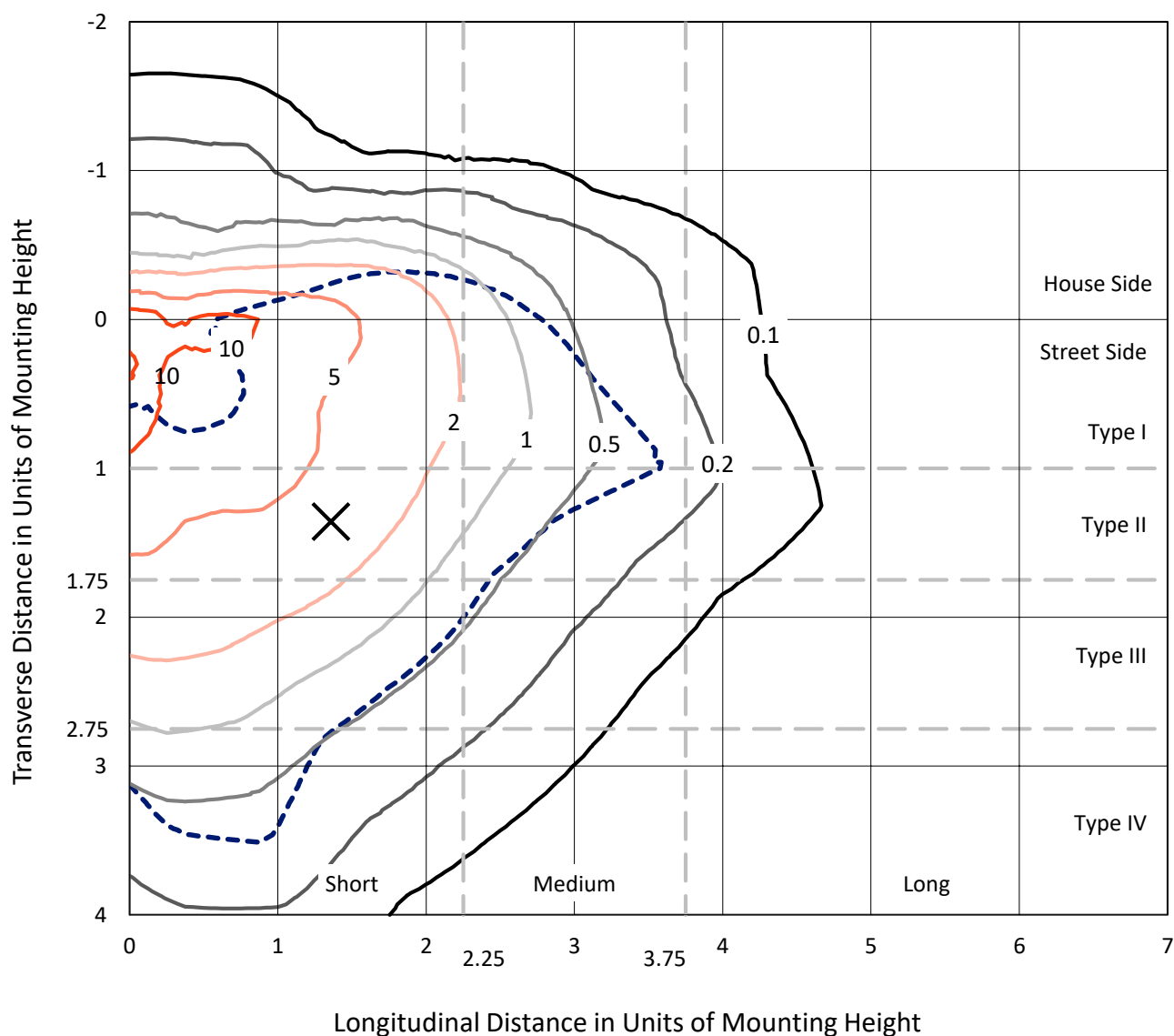


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

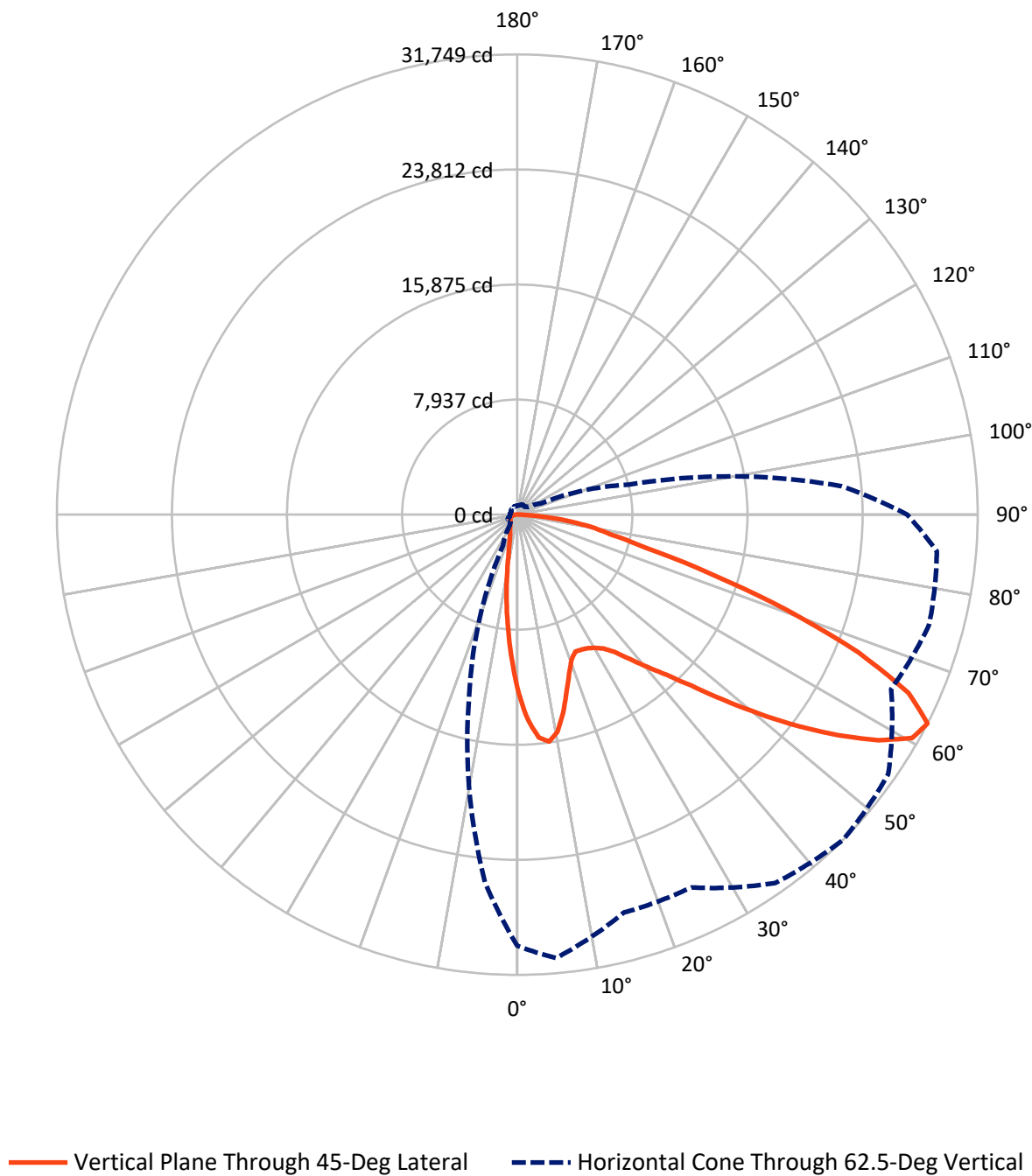


Based on 30 foot mounting height. Maximum calculated value = 16.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6047.3	0.0	6047.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	30495.5	0.0	30495.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	36542.9	0.0	36542.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	898.7	2.5
10°-20°	1648.1	4.5
20°-30°	2402.9	6.6
30°-40°	3700.8	10.1
40°-50°	5446.5	14.9
50°-60°	7988.9	21.9
60°-70°	8930.4	24.4
70°-80°	4372.2	12.0
80°-90°	1154.4	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°	36542.9	100.0
0°-180°	36542.9	100.0

Coefficient of Utilization



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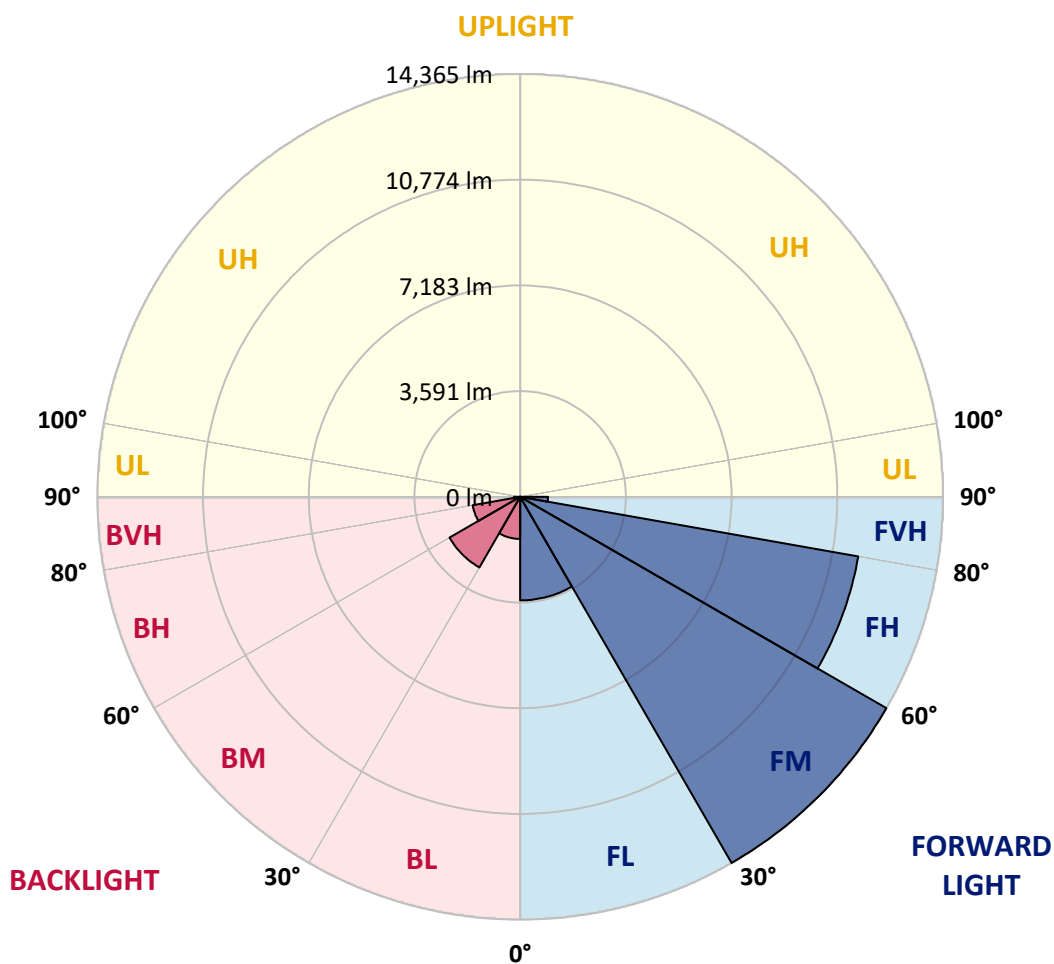
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3519.0	9.6			
FM	(30°-60°)	14365.3	39.3			
FH	(60°-80°)	11663.2	31.9			G4/12000
FVH	(80°-90°)	948.0	2.6			G5
BL	(0°-30°)	1430.7	3.9	B3/2500		
BM	(30°-60°)	2770.9	7.6	B3/5000		
BH	(60°-80°)	1639.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	206.4	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°	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2
2.5°	12828.2	13033.2	13432.9	13732.2	14095.9	14180.2	14296.7	14182.2	13979.2	13710.2	13621.8
5°	12062.9	12500.8	13471.1	14324.9	15084.2	15437.7	15536.1	15244.8	14656.2	13882.9	13410.8
7.5°	10835.6	11458.2	12772.0	14029.6	15148.5	15809.4	15793.2	15116.3	14033.6	12774.0	12016.7
10°	9776.8	10488.1	11994.6	13400.7	14588.0	15228.8	14981.7	14115.9	12824.2	11373.9	10552.3
12.5°	9184.3	9881.3	11410.1	12822.2	13814.6	14035.6	13846.8	12999.0	11781.7	10315.2	9596.1
15°	9081.8	9847.2	11177.0	12326.1	12882.5	12689.7	12464.7	12084.9	11225.2	9973.7	9224.4
17.5°	9525.8	10369.5	11444.2	11980.5	11886.1	11550.7	11486.4	11528.6	11321.7	10353.4	9489.6
20°	10377.6	11389.9	12081.1	11817.8	11128.8	10666.8	10682.9	11327.7	11940.4	11315.7	10329.3
22.5°	11572.7	12727.8	12999.0	11904.3	10809.4	10261.0	10393.7	11438.2	12926.7	12721.8	11462.3
25°	13119.6	14172.1	13977.3	12217.6	10841.6	10311.3	10417.7	11819.8	14091.8	14128.0	12864.4
27.5°	14618.2	15594.3	14798.9	12633.4	10974.1	10429.8	10570.4	12420.5	15204.6	15654.6	14467.4
30°	15787.2	16466.3	15124.3	13013.1	11235.2	10660.8	10835.6	12990.9	15710.9	16685.2	15700.9
32.5°	16755.5	17243.7	15642.6	13483.1	11715.4	11024.4	11331.8	13683.9	16440.1	17665.5	16908.2
35°	17993.0	18131.5	16287.4	14007.5	12456.6	11657.1	12038.8	14363.0	17135.1	18655.8	18097.3
37.5°	19443.2	19264.5	16896.1	14724.6	13414.9	12647.5	12962.8	15108.3	17707.6	19778.7	19312.6
40°	20877.6	20447.7	17659.5	15837.4	14813.0	13814.6	14188.2	15903.8	18242.0	20903.7	20499.9
42.5°	22096.9	21460.1	18412.7	17060.9	16114.6	15102.3	15548.1	16705.3	18752.2	21863.9	21530.4
45°	22998.8	22207.4	19129.8	18236.0	17908.5	16813.7	17024.7	17623.3	19304.7	22665.4	22378.2
47.5°	23804.5	22958.6	19941.5	19421.2	19477.4	19039.5	18700.0	18692.0	19955.5	23320.3	23179.7
50°	24883.1	24001.3	20813.3	20642.6	21831.7	21540.5	20791.2	19939.5	20779.2	24063.5	24047.4
52.5°	26369.6	25652.6	21878.0	21958.3	24029.4	24220.3	23292.1	21438.0	22068.7	25427.5	25331.1
55°	28127.3	27709.6	23328.3	23471.0	26725.3	26861.8	25939.8	23312.2	23965.2	27402.2	27135.0
57.5°	29499.4	29411.0	24919.3	25286.9	28738.0	29352.7	28504.9	25481.8	26102.5	29065.4	28394.6
60°	30045.7	30473.6	26612.8	27118.9	30600.2	31281.2	30538.0	27388.1	27996.8	29754.5	28308.1
62.5°	29750.4	30706.7	28416.5	28374.4	31016.0	31749.2	31227.0	28448.7	29400.9	29043.4	26875.8
65°	28386.5	29869.0	29463.2	28051.0	29593.8	29654.0	29485.4	27974.6	29732.4	26795.5	24107.7
67.5°	25415.5	27548.8	28085.2	25278.9	25757.0	25365.2	25082.0	25379.3	28004.8	23426.8	20260.8
70°	20700.8	23910.9	24168.0	20218.7	20001.8	19738.6	19174.1	20807.3	24595.9	19200.2	16076.5
72.5°	15220.8	18595.6	19385.0	14829.0	13824.6	13878.8	13432.9	15680.8	19997.7	14262.6	12002.6
75°	10413.7	13465.0	15166.5	10347.4	9142.0	9164.2	9108.0	11110.7	15927.9	9921.5	8981.4
77.5°	7607.4	9620.2	11438.2	6956.5	6753.7	6629.1	6598.9	7774.2	12211.6	7203.6	6974.6
80°	6104.8	7107.2	7683.6	4821.2	5184.8	5174.7	5008.0	5345.4	7975.0	5269.1	5216.9
82.5°	4234.6	5462.0	6225.3	3778.6	3499.3	3441.1	3481.2	3981.4	5636.6	3601.8	3425.1
85°	2233.8	3628.0	6165.1	3348.7	2077.1	1657.3	2061.0	3260.3	4883.5	1908.3	1671.3
87.5°	285.2	1048.6	4081.9	1335.9	819.6	442.0	978.3	1836.1	3135.7	389.7	339.5
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°	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2
2.5°	13394.7	13127.6	12778.1	12454.6	12119.1	11785.7	11349.8	11076.6	10887.8	10851.6	10771.3
5°	13069.3	12181.5	11510.5	10930.0	10403.6	9660.3	9248.6	8907.1	8724.3	8706.3	8662.0
7.5°	11568.7	10343.3	9437.4	8615.7	7870.5	7269.9	6607.0	6297.6	6171.1	6201.2	6231.3
10°	10007.9	8637.9	7597.4	6757.6	6100.7	5594.5	5062.2	4702.6	4453.5	4403.2	4393.4
12.5°	8866.9	7364.3	6353.9	5761.2	5253.0	4777.0	4212.5	3788.6	3465.1	3354.7	3280.4
15°	8384.8	6741.6	5682.9	5044.2	4483.7	3879.0	3354.7	2910.7	2613.5	2517.0	2462.8
17.5°	8487.3	6568.7	5220.9	4403.2	3686.2	3055.4	2394.5	2014.8	1836.1	1789.8	1789.8
20°	9025.6	6536.7	4839.2	3812.7	2918.8	2187.6	1645.2	1428.2	1370.0	1364.0	1380.1
22.5°	9780.9	6649.2	4553.9	3300.5	2267.9	1597.1	1281.6	1201.3	1175.2	1181.2	1199.2
25°	10905.8	7028.8	4347.1	2844.4	1779.9	1307.8	1143.0	1094.8	1082.8	1098.8	1120.9
27.5°	12239.7	7408.6	4218.5	2501.0	1502.7	1195.3	1086.8	1036.6	1044.6	1064.6	1084.7
30°	13410.8	7719.8	4015.6	2255.8	1416.2	1201.3	1086.8	1018.6	1010.4	1014.5	1020.5
32.5°	14461.4	7930.8	3778.6	2022.8	1221.4	1066.7	1014.5	1004.4	960.2	944.1	946.1
35°	15367.5	7930.8	3635.9	1886.3	1094.8	946.1	861.7	811.6	789.5	791.5	813.6
37.5°	16241.3	7772.0	3565.6	1810.0	1026.5	900.0	825.7	781.4	751.2	745.2	749.3
40°	17012.6	7541.1	3485.3	1777.7	974.3	871.8	801.5	765.4	733.2	723.2	725.2
42.5°	17631.2	7354.2	3396.9	1735.6	942.2	851.7	785.5	753.4	717.2	707.1	705.0
45°	18300.3	7292.0	3280.4	1651.2	958.2	853.8	781.4	747.3	711.2	699.0	695.0
47.5°	19182.1	7486.9	3159.9	1550.8	992.4	863.8	787.4	747.3	709.1	699.0	695.0
50°	20292.9	7944.9	3007.2	1404.2	958.2	891.9	785.5	741.3	709.1	699.0	691.1
52.5°	21719.2	8563.5	2806.4	1235.4	938.1	960.2	781.4	729.2	699.0	685.0	671.0
55°	23452.8	9069.8	2567.3	1096.9	891.9	942.2	775.4	715.1	683.0	662.8	650.8
57.5°	24722.4	9252.6	2259.9	1006.4	827.6	912.0	767.3	697.1	662.8	646.9	630.8
60°	24471.4	8899.0	2000.7	950.1	789.5	823.6	761.3	681.0	644.8	632.8	618.7
62.5°	22460.5	7975.0	1834.0	924.0	765.4	751.2	767.3	665.0	628.8	616.7	612.7
65°	19445.3	6610.9	1767.7	918.0	745.2	709.1	713.1	646.9	610.6	600.6	596.7
67.5°	16040.4	5335.3	1709.5	938.1	719.2	678.9	659.0	622.8	592.6	582.6	574.4
70°	12649.5	4437.4	1683.3	926.1	687.0	648.9	626.7	596.7	570.6	560.5	554.4
72.5°	10186.7	3748.4	1669.4	914.1	644.8	608.7	588.6	562.4	534.4	530.4	524.3
75°	8619.8	2946.9	1528.7	875.8	596.7	560.5	546.4	522.3	494.2	494.2	490.1
77.5°	6649.2	2131.3	1271.6	775.4	546.4	506.2	494.2	476.1	443.9	449.9	448.0
80°	4911.5	1390.1	994.4	642.8	484.1	446.0	439.9	421.8	387.7	395.7	395.7
82.5°	3364.7	912.0	715.1	526.3	413.8	377.7	377.7	359.6	321.4	325.4	337.5
85°	1689.3	626.7	534.4	407.7	321.4	303.3	303.3	289.3	251.1	253.2	269.3
87.5°	514.3	377.7	353.6	291.2	231.0	227.0	217.0	206.9	182.8	180.9	190.8
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2
2.5°	10648.7	10534.2	10395.6	10090.2	9987.8	9981.8	10074.1	9977.8	10162.5	10084.2	10170.6
5°	8587.7	8475.1	8320.5	7930.8	7693.7	7533.0	7456.7	7231.8	7394.4	7275.9	7374.4
7.5°	6315.7	6341.9	6239.4	6010.4	5494.1	5234.9	5082.3	4945.7	5064.1	5052.1	5240.9
10°	4439.4	4509.7	4437.4	4206.5	3788.6	3646.0	3674.1	3728.4	3883.1	3963.4	4254.7
12.5°	3196.1	3192.0	3145.8	2938.8	2663.6	2679.8	2794.3	2888.7	3031.3	3115.6	3412.9
15°	2386.4	2350.2	2330.2	2161.4	2004.8	2039.0	2095.1	2105.2	2195.7	2245.9	2487.0
17.5°	1803.9	1822.0	1844.1	1723.6	1605.0	1582.9	1538.7	1484.5	1510.6	1520.7	1641.2
20°	1432.3	1504.6	1558.8	1474.5	1353.9	1289.7	1233.4	1197.3	1197.3	1195.3	1229.3
22.5°	1251.4	1303.7	1362.0	1303.7	1195.3	1139.0	1106.9	1078.7	1074.7	1074.7	1106.9
25°	1153.0	1191.3	1247.5	1207.4	1126.9	1084.7	1054.7	1018.6	1004.4	1000.4	1022.4
27.5°	1104.8	1120.9	1149.1	1113.0	1044.6	1024.6	1016.4	984.3	966.3	956.2	978.3
30°	1022.4	1018.6	1020.5	984.3	930.2	928.0	942.2	948.2	942.2	940.1	974.3
32.5°	946.1	938.1	936.2	904.0	853.8	841.8	853.8	865.8	879.9	900.0	940.1
35°	849.7	869.8	881.8	853.8	793.4	757.2	743.3	721.1	709.1	709.1	755.3
37.5°	773.4	819.6	837.7	811.6	745.2	695.0	671.0	666.9	668.8	677.0	721.1
40°	747.3	781.4	797.5	771.4	705.0	659.0	644.8	640.8	644.8	656.8	701.1
42.5°	731.2	755.3	753.4	721.1	666.9	634.8	626.7	622.8	626.7	638.8	687.0
45°	717.2	733.2	717.2	678.9	628.8	612.7	614.7	612.7	616.7	628.8	675.0
47.5°	705.0	711.2	691.1	652.9	600.6	596.7	604.6	610.6	614.7	624.8	672.9
50°	687.0	687.0	668.8	628.8	576.6	578.5	588.6	602.7	604.6	616.7	654.9
52.5°	665.0	662.8	650.8	612.7	556.4	562.4	562.4	578.5	582.6	596.7	636.8
55°	646.9	642.8	636.8	600.6	538.3	548.4	542.4	548.4	558.5	572.5	616.7
57.5°	630.8	622.8	622.8	590.5	524.3	528.3	514.3	522.3	534.4	546.4	592.6
60°	614.7	606.6	610.6	576.6	502.1	498.2	492.2	508.3	512.2	526.3	572.5
62.5°	596.7	590.5	592.6	560.5	486.1	476.1	476.1	490.1	492.2	512.2	556.4
65°	582.6	574.4	572.5	544.4	468.0	456.0	462.0	468.0	472.1	492.2	534.4
67.5°	568.4	552.5	552.5	530.4	448.0	436.0	448.0	446.0	452.0	470.1	504.2
70°	550.4	528.3	530.4	520.3	427.9	413.8	423.8	421.8	425.9	437.9	472.1
72.5°	522.3	504.2	508.3	504.2	407.7	387.7	391.7	391.7	391.7	401.7	437.9
75°	486.1	472.1	484.1	494.2	383.7	355.5	359.6	359.6	353.6	359.6	403.8
77.5°	442.0	433.9	474.0	460.0	355.5	321.4	321.4	317.4	305.4	313.3	361.5
80°	393.8	387.7	437.9	385.6	323.4	279.2	275.3	265.2	253.2	259.2	307.3
82.5°	343.5	337.5	367.6	295.3	279.2	231.0	220.9	202.9	190.8	196.8	241.0
85°	281.3	281.3	283.2	223.0	212.9	176.8	164.8	140.6	126.5	130.6	172.7
87.5°	200.9	206.9	190.8	152.6	126.5	98.5	90.3	76.4	64.3	74.3	90.3
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°	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2
2.5°	10612.6	10833.5	11084.6	11406.0	11681.2	12133.2	12567.1	12828.2
5°	7934.9	8302.4	8760.4	9349.0	9897.4	10721.1	11538.7	12062.9
7.5°	5678.9	6072.6	6566.8	7302.1	8077.4	9128.1	10208.7	10835.6
10°	4698.5	5102.4	5518.2	6014.4	6649.2	7792.2	9069.8	9776.8
12.5°	3887.0	4318.9	4766.9	5289.2	5877.8	6898.3	8370.7	9184.3
15°	2975.0	3457.2	3985.4	4646.4	5383.6	6562.7	8197.9	9081.8
17.5°	2039.0	2577.3	3226.1	4041.7	4943.7	6454.3	8507.4	9525.8
20°	1404.2	1795.9	2488.9	3445.2	4529.9	6440.3	9102.0	10377.6
22.5°	1175.2	1349.9	1856.1	2896.7	4218.5	6613.0	10024.0	11572.7
25°	1086.8	1191.3	1482.5	2420.6	3991.5	7010.7	11293.5	13119.6
27.5°	1034.5	1128.9	1345.8	2109.2	3812.7	7472.8	12529.0	14618.2
30°	1054.7	1151.0	1307.8	1950.6	3569.6	7858.5	13625.7	15787.2
32.5°	950.1	992.4	1120.9	1810.0	3394.9	8181.9	14586.0	16755.5
35°	809.5	883.9	1000.4	1743.7	3398.9	8398.9	15632.6	17993.0
37.5°	771.4	845.6	930.2	1719.5	3445.2	8629.9	16833.8	19443.2
40°	747.3	815.6	887.8	1705.4	3489.3	8840.8	18011.0	20877.6
42.5°	731.2	793.4	883.9	1657.3	3511.4	9029.6	18979.2	22096.9
45°	729.2	793.4	900.0	1609.1	3545.6	9232.5	19790.7	22998.8
47.5°	731.2	819.6	869.8	1550.8	3545.6	9571.9	20743.0	23804.5
50°	723.2	863.8	837.7	1468.5	3463.2	10214.7	22048.7	24883.1
52.5°	719.2	857.8	775.4	1341.9	3320.6	11235.2	23722.1	26369.6
55°	709.1	827.6	731.2	1153.0	3153.9	12348.2	25513.9	28127.3
57.5°	699.0	733.2	707.1	988.4	2896.7	13131.6	26747.3	29499.4
60°	783.4	640.8	687.0	908.0	2553.2	13346.6	26699.1	30045.7
62.5°	725.2	600.6	660.9	889.9	2312.2	12743.9	25465.7	29750.4
65°	568.4	574.4	634.8	942.2	2247.9	11146.8	23280.1	28386.5
67.5°	520.3	548.4	608.7	1008.5	2253.9	8925.2	20013.8	25415.5
70°	490.1	520.3	578.5	1042.6	2270.0	6653.2	15823.4	20700.8
72.5°	456.0	482.2	544.4	1048.6	2165.5	4833.2	12195.5	15220.8
75°	415.8	439.9	496.1	914.1	1793.8	3352.7	9328.9	10413.7
77.5°	369.7	387.7	436.0	705.0	1331.9	2145.5	7002.8	7607.4
80°	315.4	325.4	365.6	516.2	912.0	1341.9	5540.3	6104.8
82.5°	253.2	257.1	283.2	387.7	592.6	861.7	3710.2	4234.6
85°	178.7	178.7	194.8	281.3	403.8	546.4	2014.8	2233.8
87.5°	84.3	86.5	86.5	154.7	211.0	277.2	464.1	285.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)