

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: P193045

Luminaire Tested: **GLEON-AF-07-LED-E1-SLL-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193045
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-07-LED-E1-SLL-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 39255.7 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 448
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

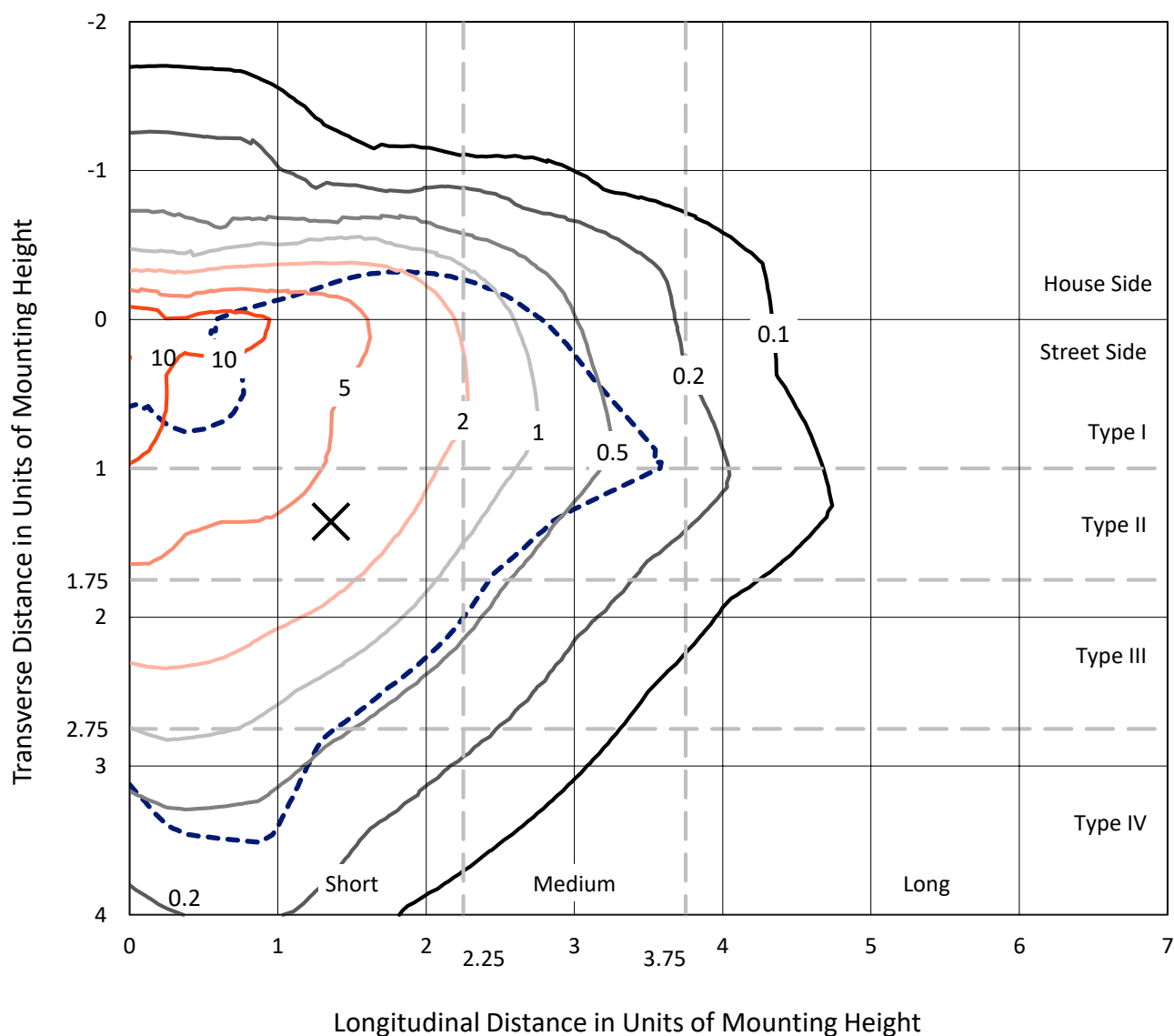


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

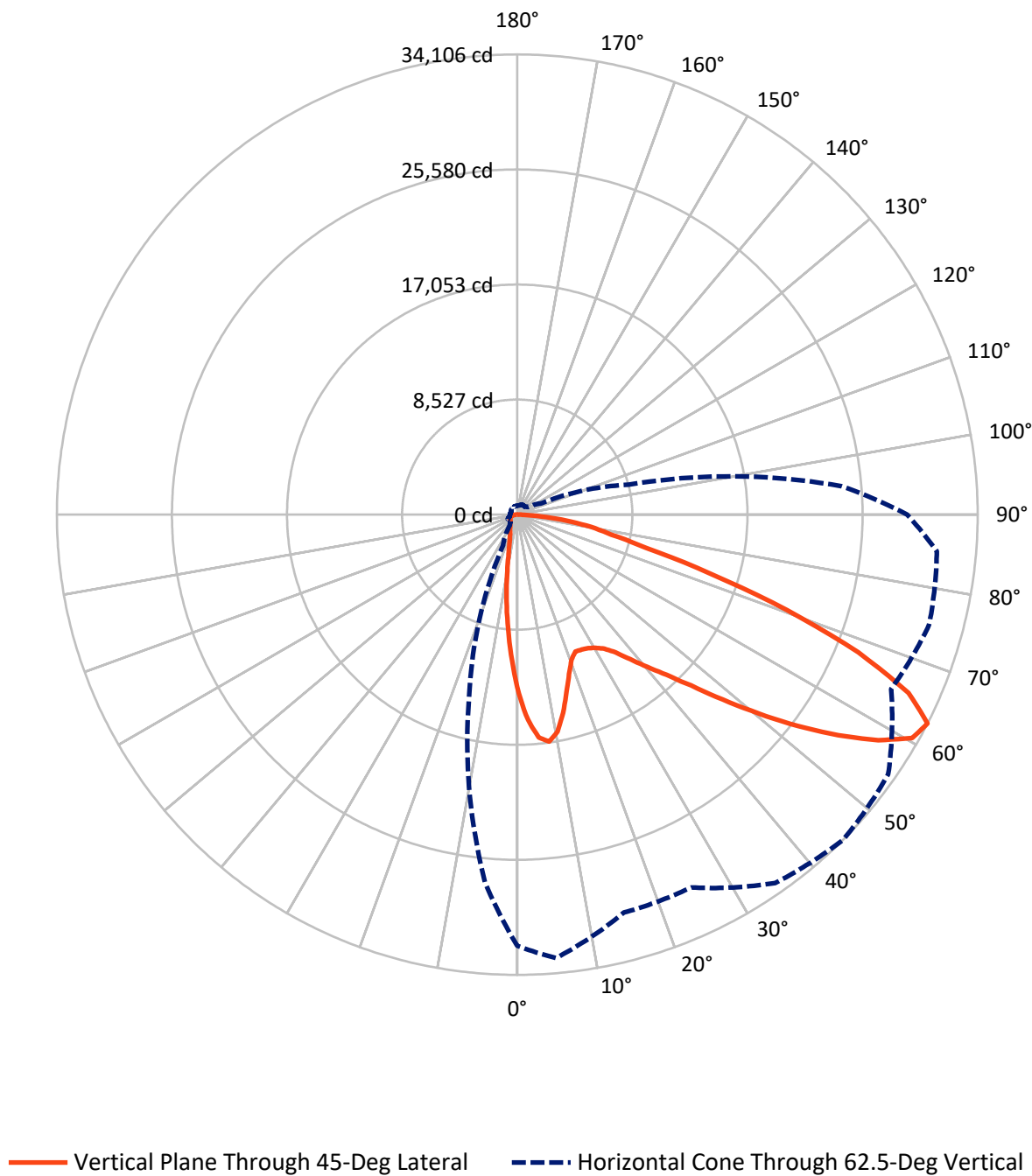


Based on 30 foot mounting height. Maximum calculated value = 17.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6496.3	0.0	6496.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	32759.4	0.0	32759.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	39255.7	0.0	39255.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	965.5	2.5
10°-20°	1770.4	4.5
20°-30°	2581.2	6.6
30°-40°	3975.5	10.1
40°-50°	5850.9	14.9
50°-60°	8582.0	21.9
60°-70°	9593.4	24.4
70°-80°	4696.8	12.0
80°-90°	1240.1	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°	39255.7	100.0
0°-180°	39255.7	100.0

Coefficient of Utilization



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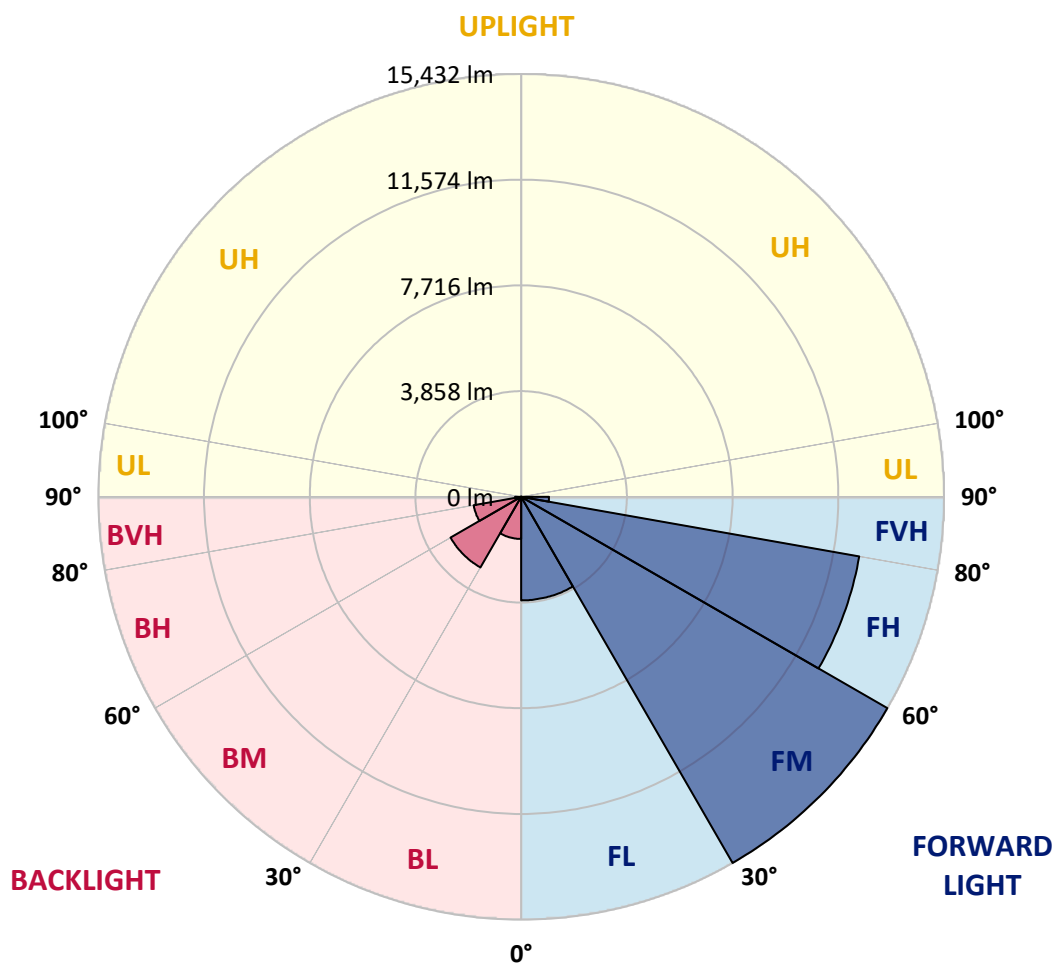
CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-7030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3780.2	9.6			
FM	(30°-60°)	15431.8	39.3			
FH	(60°-80°)	12529.1	31.9			G5
FVH	(80°-90°)	1018.4	2.6			G5
BL	(0°-30°)	1536.9	3.9	B3/2500		
BM	(30°-60°)	2976.5	7.6	B3/5000		
BH	(60°-80°)	1761.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	221.7	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°	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8
2.5°	13780.7	14000.7	14430.2	14751.6	15142.2	15232.9	15358.0	15235.1	15017.1	14727.9	14633.0
5°	12958.4	13428.8	14471.2	15388.3	16204.0	16583.8	16689.6	16376.7	15744.4	14913.6	14406.4
7.5°	11639.9	12308.9	13720.2	15071.1	16273.1	16983.0	16965.8	16238.5	15075.4	13722.3	12908.8
10°	10502.6	11266.6	12885.1	14395.7	15670.9	16359.4	16093.9	15163.9	13776.3	12218.3	11335.6
12.5°	9866.1	10614.9	12257.1	13774.1	14840.1	15077.6	14874.7	13964.0	12656.4	11081.1	10308.5
15°	9756.1	10578.3	12006.8	13241.1	13838.9	13631.7	13390.0	12982.1	12058.6	10714.2	9909.3
17.5°	10233.0	11139.3	12293.8	12869.9	12768.6	12408.1	12339.0	12384.4	12162.2	11122.0	10194.1
20°	11147.9	12235.5	12977.9	12695.2	11955.0	11458.7	11475.9	12168.6	12826.8	12155.6	11096.2
22.5°	12431.9	13672.7	13964.0	12787.9	11611.8	11022.7	11165.2	12287.3	13886.3	13666.2	12313.2
25°	14093.6	15224.3	15015.0	13124.6	11646.4	11076.7	11191.1	12697.3	15138.0	15176.7	13819.4
27.5°	15703.4	16752.0	15897.6	13571.3	11788.8	11204.0	11355.1	13342.5	16333.5	16816.8	15541.5
30°	16959.2	17688.6	16247.2	13979.1	12069.4	11452.2	11639.9	13955.3	16877.3	17923.9	16866.5
32.5°	17999.4	18523.9	16803.8	14484.1	12585.1	11842.8	12172.9	14699.8	17660.5	18976.9	18163.4
35°	19328.7	19477.5	17496.6	15047.3	13381.4	12522.5	12932.6	15429.3	18407.2	20040.8	19440.9
37.5°	20886.8	20694.7	18150.4	15817.7	14410.7	13586.4	13925.2	16229.9	19022.2	21247.1	20746.4
40°	22427.5	21965.7	18970.4	17013.2	15912.6	14840.1	15241.5	17084.5	19596.3	22455.5	22021.8
42.5°	23737.3	23053.2	19779.6	18327.3	17311.0	16223.4	16702.5	17945.4	20144.3	23487.0	23128.9
45°	24706.2	23856.0	20550.0	19589.7	19238.1	18061.9	18288.6	18931.6	20737.9	24348.1	24039.4
47.5°	25571.6	24663.1	21421.9	20862.9	20923.3	20453.0	20088.3	20079.6	21437.0	25051.5	24900.5
50°	26730.4	25783.1	22358.5	22175.0	23452.5	23139.6	22334.7	21419.7	22321.7	25849.9	25832.7
52.5°	28327.3	27557.0	23502.1	23588.4	25813.3	26018.4	25021.4	23029.5	23707.2	27315.3	27211.7
55°	30215.5	29766.7	25060.1	25213.4	28709.3	28856.0	27865.5	25042.9	25744.2	29436.5	29149.5
57.5°	31689.3	31594.4	26769.3	27164.1	30871.5	31531.9	30621.2	27373.5	28040.3	31223.2	30502.5
60°	32276.4	32735.9	28588.4	29132.3	32872.0	33603.4	32805.0	29421.4	30075.2	31963.5	30409.7
62.5°	31959.1	32986.3	30526.3	30480.9	33318.6	34106.3	33545.3	30560.8	31583.7	31199.5	28871.1
65°	30493.8	32086.3	31650.5	30133.4	31790.8	31855.5	31674.3	30051.5	31939.6	28784.8	25897.5
67.5°	27302.2	29594.0	30170.2	27155.6	27669.2	27248.3	26944.1	27263.5	30083.9	25165.9	21765.0
70°	22237.5	25686.0	25962.1	21719.6	21486.6	21204.0	20597.5	22351.9	26421.8	20625.6	17269.9
72.5°	16350.7	19976.1	20824.2	15929.9	14850.9	14909.2	14430.2	16844.9	21482.3	15321.4	12893.6
75°	11186.7	14464.8	16292.4	11115.6	9820.8	9844.5	9784.0	11935.6	17110.3	10658.0	9648.1
77.5°	8172.1	10334.4	12287.3	7473.0	7255.1	7121.2	7088.8	8351.2	13118.1	7738.4	7492.4
80°	6558.0	7634.8	8254.1	5179.1	5569.6	5558.9	5379.7	5742.2	8567.0	5660.2	5604.1
82.5°	4548.9	5867.4	6687.4	4059.1	3759.2	3696.6	3739.7	4277.1	6055.1	3869.2	3679.3
85°	2399.7	3897.3	6622.7	3597.3	2231.3	1780.3	2214.0	3502.3	5246.0	2050.0	1795.4
87.5°	306.5	1126.5	4384.9	1435.0	880.4	474.7	1051.0	1972.3	3368.6	418.7	364.7
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°	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8
2.5°	14389.1	14102.2	13726.7	13379.3	13018.9	12660.6	12192.4	11898.9	11696.1	11657.2	11570.9
5°	14039.6	13085.8	12365.0	11741.3	11176.0	10377.6	9935.2	9568.3	9371.9	9352.5	9305.1
7.5°	12427.5	11111.2	10138.0	9255.5	8454.8	7809.7	7097.5	6765.2	6629.2	6661.5	6694.0
10°	10750.9	9279.2	8161.3	7259.3	6553.7	6010.0	5438.1	5051.7	4784.1	4730.2	4719.5
12.5°	9525.1	7911.0	6825.5	6189.0	5643.0	5131.6	4525.2	4069.9	3722.5	3603.8	3523.9
15°	9007.3	7242.0	6104.9	5418.6	4816.4	4167.0	3603.8	3126.9	2807.5	2703.9	2645.6
17.5°	9117.3	7056.5	5608.5	4730.2	3959.8	3282.2	2572.3	2164.4	1972.3	1922.8	1922.8
20°	9695.6	7022.0	5198.4	4095.8	3135.5	2349.9	1767.4	1534.3	1471.7	1465.2	1482.5
22.5°	10507.0	7142.9	4892.1	3545.5	2436.3	1715.6	1376.7	1290.5	1262.4	1268.8	1288.2
25°	11715.5	7550.7	4669.7	3055.7	1911.9	1404.8	1227.8	1176.0	1163.2	1180.4	1204.1
27.5°	13148.4	7958.5	4531.6	2686.6	1614.1	1284.1	1167.4	1113.5	1122.1	1143.7	1165.2
30°	14406.4	8293.0	4313.8	2423.4	1521.3	1290.5	1167.4	1094.1	1085.5	1089.8	1096.2
32.5°	15535.0	8519.6	4059.1	2173.0	1311.9	1145.9	1089.8	1078.9	1031.5	1014.3	1016.4
35°	16508.2	8519.6	3905.9	2026.3	1176.0	1016.4	925.8	871.8	848.1	850.2	874.0
37.5°	17446.9	8349.0	3830.3	1944.3	1102.8	966.7	886.9	839.4	807.1	800.6	804.9
40°	18275.6	8100.9	3744.0	1909.8	1046.6	936.6	861.1	822.1	787.6	776.9	779.0
42.5°	18940.2	7900.2	3649.0	1864.5	1012.1	914.9	843.8	809.2	770.4	759.6	757.3
45°	19658.8	7833.4	3523.9	1773.9	1029.3	917.1	839.4	802.7	763.9	750.9	746.7
47.5°	20606.2	8042.7	3394.4	1665.9	1066.1	927.9	845.8	802.7	761.7	750.9	746.7
50°	21799.5	8534.7	3230.5	1508.5	1029.3	958.1	843.8	796.3	761.7	750.9	742.3
52.5°	23331.7	9199.3	3014.7	1327.2	1007.8	1031.5	839.4	783.3	750.9	735.9	720.8
55°	25194.0	9743.0	2757.8	1178.3	958.1	1012.1	833.0	768.2	733.6	712.2	699.1
57.5°	26557.7	9939.6	2427.6	1081.1	889.1	979.7	824.4	748.8	712.2	694.9	677.6
60°	26288.0	9559.6	2149.3	1020.7	848.1	884.8	817.8	731.5	692.7	679.7	664.7
62.5°	24127.9	8567.0	1970.2	992.6	822.1	807.1	824.4	714.2	675.4	662.4	658.2
65°	20888.8	7101.8	1899.0	986.2	800.6	761.7	766.0	694.9	656.0	645.1	641.0
67.5°	17231.2	5731.5	1836.4	1007.8	772.6	729.5	707.8	669.0	636.6	625.8	617.2
70°	13588.6	4766.9	1808.4	994.8	738.0	697.0	673.2	641.0	612.8	602.0	595.6
72.5°	10943.0	4026.7	1793.3	981.9	692.7	653.8	632.3	604.2	574.0	569.7	563.2
75°	9259.7	3165.7	1642.1	940.8	641.0	602.0	586.9	561.0	530.9	530.9	526.5
77.5°	7142.9	2289.5	1366.0	833.0	586.9	543.8	530.9	511.5	476.9	483.4	481.2
80°	5276.1	1493.2	1068.2	690.5	520.1	479.1	472.5	453.2	416.5	425.1	425.1
82.5°	3614.6	979.7	768.2	565.4	444.5	405.7	405.7	386.2	345.3	349.6	362.5
85°	1814.8	673.2	574.0	438.0	345.3	325.8	325.8	310.8	269.8	271.9	289.2
87.5°	552.5	405.7	379.7	312.9	248.1	243.8	233.0	222.3	196.3	194.3	205.0
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°	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8
2.5°	11439.2	11316.2	11167.4	10839.4	10729.3	10722.8	10822.1	10718.5	10917.0	10832.8	10925.7
5°	9225.2	9104.3	8938.2	8519.6	8264.9	8092.3	8010.3	7768.6	7943.3	7816.1	7921.9
7.5°	6784.6	6812.7	6702.6	6456.5	5901.9	5623.6	5459.5	5312.8	5440.1	5427.2	5630.0
10°	4769.0	4844.5	4766.9	4518.8	4069.9	3916.6	3946.9	4005.1	4171.3	4257.7	4570.6
12.5°	3433.3	3429.0	3379.4	3157.0	2861.4	2878.7	3001.7	3103.1	3256.4	3346.9	3666.3
15°	2563.7	2524.8	2503.2	2322.0	2153.6	2190.3	2250.7	2261.5	2358.6	2412.6	2671.5
17.5°	1937.8	1957.3	1981.0	1851.5	1724.2	1700.5	1653.0	1594.7	1622.7	1633.5	1763.0
20°	1538.6	1616.3	1674.6	1583.9	1454.5	1385.4	1325.0	1286.1	1286.1	1284.1	1320.6
22.5°	1344.4	1400.4	1463.1	1400.4	1284.1	1223.6	1189.1	1158.8	1154.6	1154.6	1189.1
25°	1238.7	1279.7	1340.1	1296.9	1210.6	1165.2	1132.9	1094.1	1078.9	1074.7	1098.4
27.5°	1186.9	1204.1	1234.3	1195.6	1122.1	1100.6	1091.9	1057.4	1038.0	1027.1	1051.0
30°	1098.4	1094.1	1096.2	1057.4	999.1	997.0	1012.1	1018.6	1012.1	1009.9	1046.6
32.5°	1016.4	1007.8	1005.6	971.1	917.1	904.2	917.1	930.2	945.2	966.7	1009.9
35°	912.9	934.3	947.4	917.1	852.4	813.6	798.4	774.6	761.7	761.7	811.4
37.5°	830.8	880.4	899.9	871.8	800.6	746.7	720.8	716.4	718.6	727.2	774.6
40°	802.7	839.4	856.7	828.6	757.3	707.8	692.7	688.4	692.7	705.6	753.2
42.5°	785.5	811.4	809.2	774.6	716.4	681.9	673.2	669.0	673.2	686.2	738.0
45°	770.4	787.6	770.4	729.5	675.4	658.2	660.4	658.2	662.4	675.4	725.1
47.5°	757.3	763.9	742.3	701.3	645.1	641.0	649.5	656.0	660.4	671.1	722.9
50°	738.0	738.0	718.6	675.4	619.3	621.4	632.3	647.4	649.5	662.4	703.5
52.5°	714.2	712.2	699.1	658.2	597.7	604.2	604.2	621.4	625.8	641.0	684.1
55°	694.9	690.5	684.1	645.1	578.3	589.1	582.7	589.1	600.0	615.0	662.4
57.5°	677.6	669.0	669.0	634.5	563.2	567.5	552.5	561.0	574.0	586.9	636.6
60°	660.4	651.7	656.0	619.3	539.5	535.2	528.7	546.0	550.2	565.4	615.0
62.5°	641.0	634.5	636.6	602.0	522.3	511.5	511.5	526.5	528.7	550.2	597.7
65°	625.8	617.2	615.0	584.7	502.8	489.8	496.4	502.8	507.1	528.7	574.0
67.5°	610.6	593.4	593.4	569.7	481.2	468.2	481.2	479.1	485.5	505.0	541.6
70°	591.3	567.5	569.7	558.9	459.7	444.5	455.3	453.2	457.5	470.5	507.1
72.5°	561.0	541.6	546.0	541.6	438.0	416.5	420.7	420.7	420.7	431.6	470.5
75°	522.3	507.1	520.1	530.9	412.1	382.0	386.2	386.2	379.7	386.2	433.8
77.5°	474.7	466.1	509.2	494.2	382.0	345.3	345.3	341.0	328.0	336.6	388.4
80°	423.0	416.5	470.5	414.3	347.5	299.9	295.6	284.8	271.9	278.4	330.2
82.5°	369.0	362.5	394.9	317.2	299.9	248.1	237.4	218.0	205.0	211.5	259.0
85°	302.1	302.1	304.3	239.5	228.8	189.9	177.0	151.1	135.9	140.3	185.6
87.5°	215.8	222.3	205.0	164.0	135.9	105.8	97.1	82.1	69.1	79.9	97.1
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°	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8
2.5°	11400.4	11637.8	11907.5	12252.8	12548.4	13034.0	13500.1	13780.7
5°	8523.9	8918.8	9410.8	10043.1	10632.1	11516.9	12395.3	12958.4
7.5°	6100.5	6523.5	7054.4	7844.2	8677.1	9805.7	10966.7	11639.9
10°	5047.4	5481.2	5927.9	6460.8	7142.9	8370.7	9743.0	10502.6
12.5°	4175.7	4639.5	5120.8	5681.8	6314.1	7410.4	8992.1	9866.1
15°	3196.0	3713.8	4281.4	4991.3	5783.3	7050.0	8806.6	9756.1
17.5°	2190.3	2768.6	3465.7	4341.8	5310.6	6933.5	9138.9	10233.0
20°	1508.5	1929.2	2673.7	3700.8	4866.2	6918.4	9777.6	11147.9
22.5°	1262.4	1450.1	1994.0	3111.7	4531.6	7103.9	10768.1	12431.9
25°	1167.4	1279.7	1592.6	2600.4	4287.9	7531.2	12131.9	14093.6
27.5°	1111.3	1212.8	1445.8	2265.8	4095.8	8027.5	13459.1	15703.4
30°	1132.9	1236.5	1404.8	2095.4	3834.7	8441.9	14637.4	16959.2
32.5°	1020.7	1066.1	1204.1	1944.3	3647.0	8789.3	15668.8	17999.4
35°	869.7	949.5	1074.7	1873.1	3651.2	9022.3	16793.1	19328.7
37.5°	828.6	908.5	999.1	1847.2	3700.8	9270.5	18083.5	20886.8
40°	802.7	876.1	953.9	1832.1	3748.3	9497.2	19348.0	22427.5
42.5°	785.5	852.4	949.5	1780.3	3772.0	9699.9	20388.3	23737.3
45°	783.3	852.4	966.7	1728.5	3808.8	9917.9	21260.0	24706.2
47.5°	785.5	880.4	934.3	1665.9	3808.8	10282.6	22282.9	25571.6
50°	776.9	927.9	899.9	1577.4	3720.3	10973.1	23685.5	26730.4
52.5°	772.6	921.5	833.0	1441.4	3567.1	12069.4	25483.1	28327.3
55°	761.7	889.1	785.5	1238.7	3388.0	13264.8	27408.0	30215.5
57.5°	750.9	787.6	759.6	1061.7	3111.7	14106.5	28733.0	31689.3
60°	841.7	688.4	738.0	975.3	2742.7	14337.3	28681.2	32276.4
62.5°	779.0	645.1	709.9	956.0	2483.8	13689.9	27356.3	31959.1
65°	610.6	617.2	681.9	1012.1	2414.7	11974.4	25008.4	30493.8
67.5°	558.9	589.1	653.8	1083.3	2421.1	9587.7	21499.6	27302.2
70°	526.5	558.9	621.4	1120.0	2438.4	7147.0	16998.1	22237.5
72.5°	489.8	517.9	584.7	1126.5	2326.2	5192.0	13100.8	16350.7
75°	446.7	472.5	532.9	981.9	1927.0	3601.6	10021.5	11186.7
77.5°	397.0	416.5	468.2	757.3	1430.8	2304.8	7522.6	8172.1
80°	338.8	349.6	392.8	554.6	979.7	1441.4	5951.6	6558.0
82.5°	271.9	276.2	304.3	416.5	636.6	925.8	3985.7	4548.9
85°	192.1	192.1	209.3	302.1	433.8	586.9	2164.4	2399.7
87.5°	90.6	92.8	92.8	166.2	226.6	297.8	498.4	306.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)