

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: P193047

Luminaire Tested: **GLEON-AF-09-LED-E1-SLL-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193047
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-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 49616.8 lumens
Efficiency: N/A
Efficacy: 86.3 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): 575
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



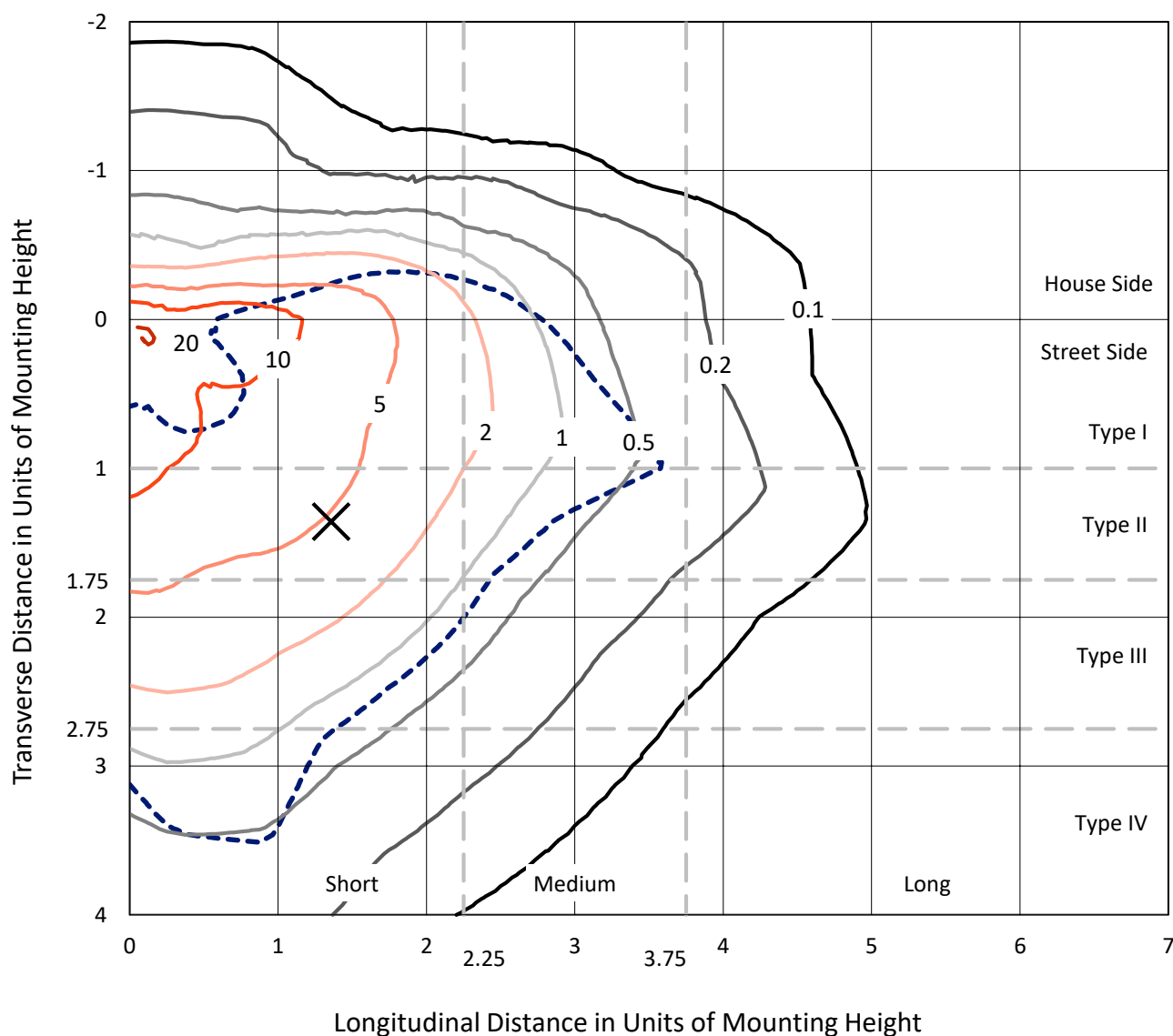
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

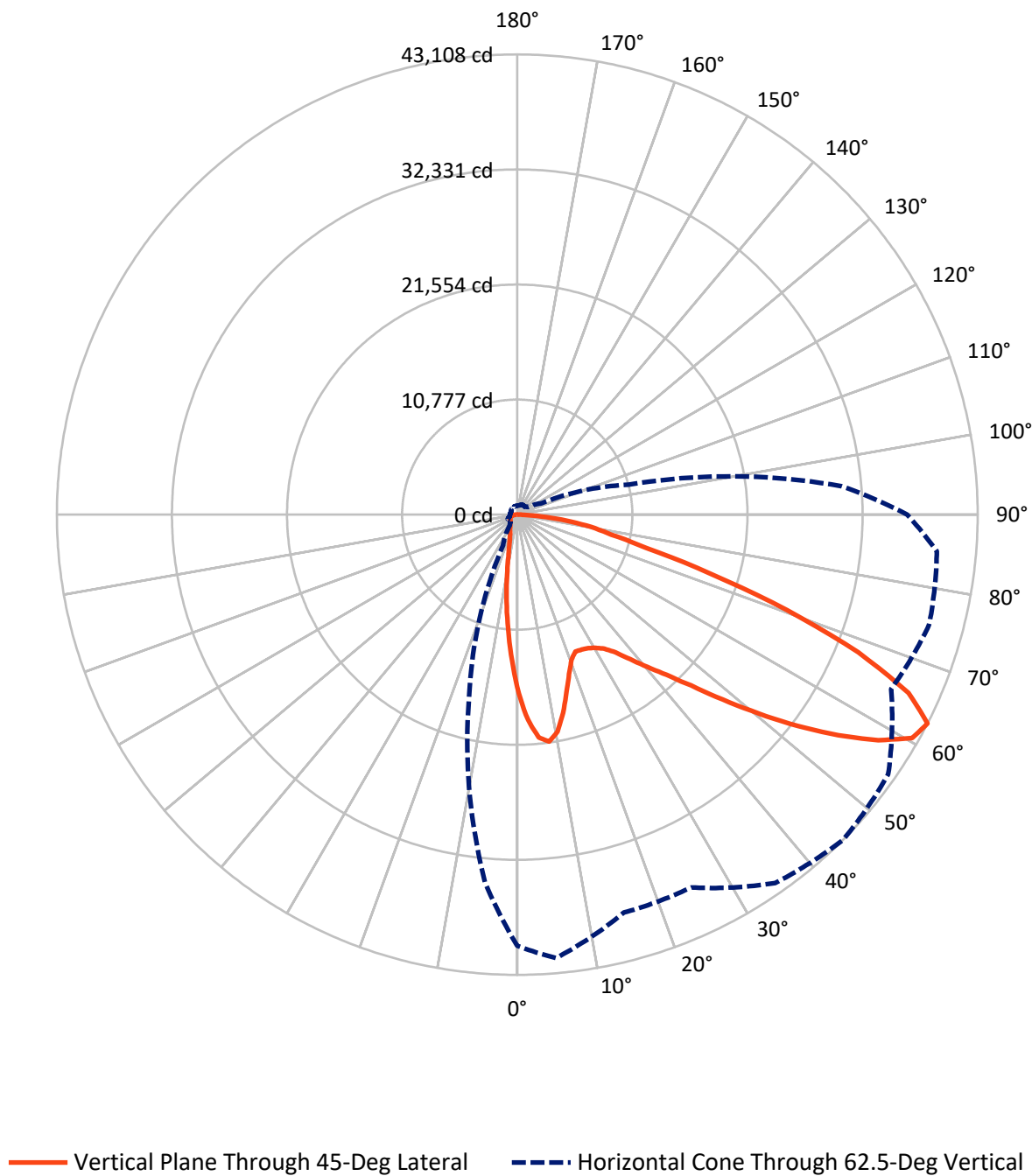


Based on 30 foot mounting height. Maximum calculated value = 21.9 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8210.9	0.0	8210.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	41405.9	0.0	41405.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	49616.8	0.0	49616.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1220.3	2.5
10°-20°	2237.7	4.5
20°-30°	3262.5	6.6
30°-40°	5024.8	10.1
40°-50°	7395.1	14.9
50°-60°	10847.1	21.9
60°-70°	12125.5	24.4
70°-80°	5936.5	12.0
80°-90°	1567.4	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°	49616.8	100.0
0°-180°	49616.8	100.0

Coefficient of Utilization



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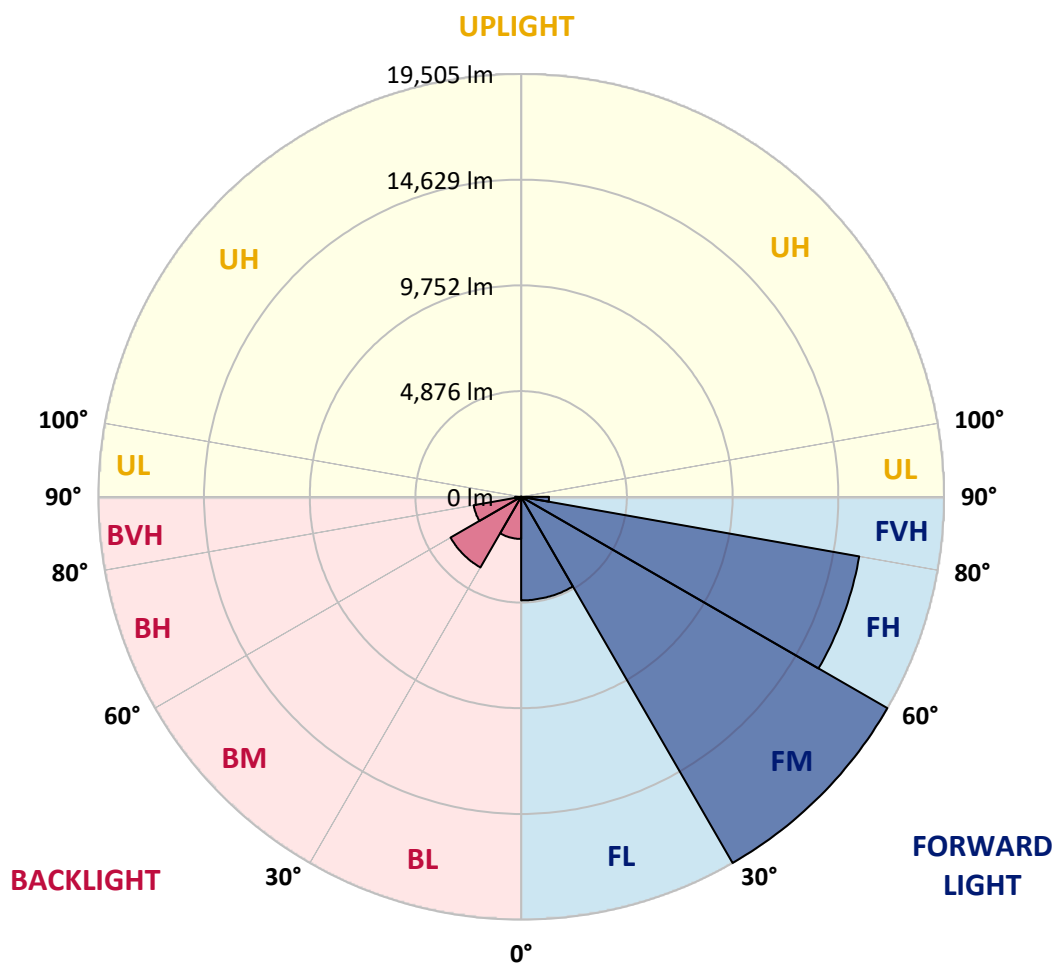
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4777.9	9.6			
FM	(30°-60°)	19504.8	39.3			
FH	(60°-80°)	15836.0	31.9			G5
FVH	(80°-90°)	1287.2	2.6			G5
BL	(0°-30°)	1942.6	3.9	B3/2500		
BM	(30°-60°)	3762.2	7.6	B3/5000		
BH	(60°-80°)	2226.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	280.2	0.6			G3/500
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°	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2
2.5°	17417.8	17696.0	18238.7	18645.2	19138.8	19253.4	19411.6	19256.2	18980.7	18615.1	18495.2
5°	16378.6	16973.2	18290.6	19449.8	20480.8	20960.9	21094.4	20699.0	19899.8	18849.7	18208.8
7.5°	14712.2	15557.7	17341.4	19049.0	20568.0	21465.4	21443.7	20524.5	19054.4	17344.2	16315.9
10°	13274.8	14240.3	16285.9	18195.2	19807.2	20677.2	20341.7	19166.1	17412.4	15443.1	14327.6
12.5°	12470.2	13416.6	15492.2	17409.7	18757.1	19057.1	18800.7	17649.6	15996.7	14005.7	13029.2
15°	12331.0	13370.2	15175.8	16736.0	17491.5	17229.6	16924.1	16408.7	15241.3	13542.0	12524.7
17.5°	12933.8	14079.3	15538.7	16266.8	16138.6	15683.2	15595.8	15653.1	15372.2	14057.6	12884.7
20°	14090.3	15465.0	16403.2	16046.0	15110.3	14483.1	14504.8	15380.4	16212.3	15364.0	14024.8
22.5°	15713.1	17281.4	17649.6	16163.2	14676.7	13932.0	14112.2	15530.4	17551.5	17273.3	15563.1
25°	17813.3	19242.5	18978.0	16588.8	14720.3	14000.3	14144.8	16048.6	19133.5	19182.5	17467.0
27.5°	19848.0	21173.6	20093.6	17153.2	14900.3	14161.2	14352.1	16864.1	20644.4	21255.4	19643.5
30°	21435.5	22357.4	20535.4	17668.8	15254.9	14474.8	14712.2	17638.9	21331.8	22654.7	21318.1
32.5°	22750.1	23412.8	21239.0	18307.1	15906.8	14968.5	15385.9	18579.7	22321.8	23985.6	22957.4
35°	24430.3	24618.4	22114.6	19018.9	16913.3	15827.8	16346.0	19501.6	23265.5	25330.3	24572.1
37.5°	26399.5	26156.7	22941.0	19992.6	18214.3	17172.4	17600.6	20513.5	24042.9	26855.0	26222.2
40°	28347.0	27763.3	23977.5	21503.7	20112.6	18757.1	19264.4	21593.7	24768.4	28382.4	27834.2
42.5°	30002.5	29138.0	25000.2	23164.7	21880.0	20505.3	21110.8	22681.9	25461.2	29686.2	29233.4
45°	31227.2	30152.5	25973.9	24760.3	24315.6	22829.1	23115.6	23928.5	26211.3	30774.4	30384.4
47.5°	32320.8	31172.6	27076.0	26369.5	26445.8	25851.3	25390.3	25379.4	27094.9	31663.6	31472.6
50°	33785.5	32588.2	28259.7	28027.8	29642.5	29247.1	28229.7	27073.3	28213.3	32672.8	32650.9
52.5°	35803.9	34830.2	29705.2	29814.3	32626.4	32885.5	31625.4	29107.9	29964.4	34524.8	34393.8
55°	38190.5	37623.2	31674.5	31868.2	36286.7	36472.2	35220.3	31652.6	32539.1	37205.8	36843.1
57.5°	40053.4	39933.3	33834.7	34333.8	39019.6	39854.3	38703.2	34598.4	35441.2	39464.2	38553.2
60°	40795.2	41376.3	36134.0	36821.3	41548.0	42472.7	41463.5	37186.8	38013.2	40399.8	38436.0
62.5°	40394.3	41692.6	38583.3	38526.0	42112.7	43108.1	42399.0	38626.9	39919.7	39434.3	36491.3
65°	38542.3	40555.3	40004.3	38086.9	40181.6	40263.3	40034.3	37983.2	40369.7	36382.1	32732.8
67.5°	34508.3	37405.0	38133.2	34322.9	34972.0	34440.1	34055.6	34459.3	38024.1	31808.1	27509.7
70°	28107.0	32465.6	32814.6	27452.3	27157.7	26800.4	26034.0	28251.5	33395.5	26069.5	21828.3
72.5°	20666.3	25248.5	26320.4	20134.4	18770.6	18844.3	18238.7	21291.0	27152.2	19365.2	16296.8
75°	14139.4	18282.5	20592.6	14049.3	12412.8	12442.9	12366.5	15085.9	21626.3	13471.1	12194.7
77.5°	10329.1	13062.1	15530.4	9445.4	9169.9	9000.8	8959.8	10555.4	16580.5	9780.8	9469.9
80°	8288.9	9649.9	10432.7	6546.0	7039.7	7026.0	6799.6	7257.9	10828.1	7154.2	7083.3
82.5°	5749.6	7416.1	8452.6	5130.5	4751.3	4672.3	4726.8	5405.9	7653.4	4890.5	4650.4
85°	3033.0	4925.9	8370.7	4546.8	2820.2	2250.2	2798.4	4426.7	6630.5	2591.1	2269.4
87.5°	387.4	1423.7	5542.2	1813.8	1112.8	600.1	1328.3	2493.0	4257.7	529.2	461.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2
2.5°	18187.0	17824.2	17349.6	16910.5	16455.0	16002.2	15410.4	15039.4	14783.1	14733.9	14624.9
5°	17745.2	16539.5	15628.6	14840.3	14125.7	13116.6	12557.3	12093.8	11845.6	11821.0	11761.0
7.5°	15707.6	14043.9	12813.8	11698.3	10686.3	9870.8	8970.7	8550.7	8378.9	8419.8	8460.7
10°	13588.5	11728.2	10315.3	9175.4	8283.4	7596.1	6873.3	6385.1	6046.9	5978.6	5965.0
12.5°	12039.2	9999.1	8627.1	7822.5	7132.5	6485.9	5719.6	5144.0	4704.9	4554.9	4454.1
15°	11384.6	9153.5	7716.1	6848.8	6087.8	5266.9	4554.9	3952.1	3548.5	3417.5	3343.9
17.5°	11523.7	8919.0	7088.7	5978.6	5004.9	4148.6	3251.2	2735.7	2493.0	2430.3	2430.3
20°	12254.6	8875.3	6570.6	5176.8	3963.1	2970.2	2233.8	1939.3	1860.1	1852.0	1873.8
22.5°	13280.3	9028.0	6183.2	4481.3	3079.4	2168.4	1740.2	1631.0	1595.6	1603.8	1628.3
25°	14807.6	9543.6	5902.3	3862.1	2416.6	1775.6	1551.9	1486.5	1470.1	1491.9	1522.0
27.5°	16618.7	10059.1	5727.8	3395.8	2040.2	1622.8	1475.5	1407.4	1418.3	1445.6	1472.9
30°	18208.8	10481.8	5452.2	3063.0	1922.9	1631.0	1475.5	1382.9	1372.0	1377.4	1385.6
32.5°	19635.3	10768.1	5130.5	2746.6	1658.3	1448.3	1377.4	1363.8	1303.8	1281.9	1284.7
35°	20865.4	10768.1	4936.8	2561.1	1486.5	1284.7	1170.0	1101.9	1072.0	1074.7	1104.6
37.5°	22051.9	10552.7	4841.3	2457.5	1393.7	1221.9	1121.0	1061.0	1020.1	1011.8	1017.3
40°	23099.3	10239.0	4732.2	2413.9	1322.8	1183.8	1088.2	1039.2	995.6	981.9	984.7
42.5°	23939.2	9985.4	4612.2	2356.6	1279.2	1156.5	1066.5	1022.7	973.7	960.1	957.3
45°	24847.5	9900.8	4454.1	2242.0	1301.1	1159.2	1061.0	1014.6	965.6	949.1	943.7
47.5°	26044.9	10165.4	4290.4	2105.7	1347.3	1172.8	1069.2	1014.6	962.8	949.1	943.7
50°	27553.2	10787.2	4083.0	1906.6	1301.1	1211.0	1066.5	1006.5	962.8	949.1	938.2
52.5°	29489.7	11627.4	3810.3	1677.4	1273.8	1303.8	1061.0	990.1	949.1	930.2	911.0
55°	31843.6	12314.7	3485.7	1489.2	1211.0	1279.2	1052.8	971.0	927.4	900.1	883.7
57.5°	33567.4	12562.8	3068.4	1366.5	1123.7	1238.2	1041.9	946.4	900.1	878.2	856.5
60°	33226.4	12082.9	2716.6	1290.2	1072.0	1118.3	1033.7	924.7	875.5	859.3	840.1
62.5°	30496.2	10828.1	2490.2	1254.7	1039.2	1020.1	1041.9	902.8	853.8	837.4	831.9
65°	26402.3	8976.2	2400.2	1246.4	1011.8	962.8	968.2	878.2	829.2	815.5	810.0
67.5°	21779.0	7244.2	2321.1	1273.8	976.4	921.9	894.7	845.5	804.5	790.9	780.1
70°	17175.1	6025.1	2285.6	1257.3	932.8	880.9	851.0	810.0	774.6	761.0	752.8
72.5°	13831.1	5089.6	2266.6	1240.9	875.5	826.4	799.1	763.7	725.5	720.0	711.9
75°	11703.8	4001.3	2075.6	1189.2	810.0	761.0	741.9	709.2	671.0	671.0	665.5
77.5°	9028.0	2893.8	1726.6	1052.8	741.9	687.4	671.0	646.4	602.8	611.0	608.2
80°	6668.7	1887.5	1350.1	872.8	657.3	605.6	597.3	572.7	526.4	537.3	537.3
82.5°	4568.5	1238.2	971.0	714.5	561.8	512.8	512.8	488.2	436.4	441.9	458.3
85°	2293.8	851.0	725.5	553.7	436.4	411.9	411.9	392.8	340.9	343.6	365.5
87.5°	698.2	512.8	480.0	395.5	313.7	308.2	294.6	280.9	248.2	245.5	259.2
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°	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2
2.5°	14458.5	14303.0	14114.8	13700.2	13561.1	13552.9	13678.3	13547.5	13798.5	13692.1	13809.4
5°	11660.0	11507.3	11297.3	10768.1	10446.4	10228.1	10124.5	9819.0	10040.0	9879.0	10012.6
7.5°	8575.3	8610.7	8471.6	8160.7	7459.6	7107.9	6900.6	6715.1	6876.0	6859.7	7116.0
10°	6027.9	6123.2	6025.1	5711.4	5144.0	4950.4	4988.6	5062.2	5272.3	5381.3	5776.9
12.5°	4339.4	4334.0	4271.3	3990.3	3616.7	3638.5	3793.9	3922.2	4115.8	4230.4	4634.0
15°	3240.3	3191.1	3163.9	2934.8	2722.0	2768.4	2844.8	2858.4	2981.1	3049.3	3376.6
17.5°	2449.3	2473.8	2503.9	2340.3	2179.2	2149.2	2089.2	2015.7	2051.2	2064.7	2228.4
20°	1944.7	2042.9	2116.6	2001.9	1838.3	1751.1	1674.7	1625.6	1625.6	1622.8	1669.3
22.5°	1699.2	1770.1	1849.2	1770.1	1622.8	1546.4	1502.9	1464.6	1459.2	1459.2	1502.9
25°	1565.5	1617.4	1693.7	1639.2	1530.1	1472.9	1432.0	1382.9	1363.8	1358.3	1388.2
27.5°	1500.1	1522.0	1560.1	1511.0	1418.3	1391.0	1380.2	1336.5	1311.8	1298.3	1328.3
30°	1388.2	1382.9	1385.6	1336.5	1262.8	1260.1	1279.2	1287.4	1279.2	1276.4	1322.8
32.5°	1284.7	1273.8	1271.0	1227.4	1159.2	1142.9	1159.2	1175.5	1194.6	1221.9	1276.4
35°	1153.8	1181.0	1197.4	1159.2	1077.4	1028.2	1009.2	979.2	962.8	962.8	1025.5
37.5°	1050.1	1112.8	1137.4	1101.9	1011.8	943.7	911.0	905.5	908.3	919.2	979.2
40°	1014.6	1061.0	1082.9	1047.4	957.3	894.7	875.5	870.0	875.5	891.9	951.8
42.5°	992.8	1025.5	1022.7	979.2	905.5	861.8	851.0	845.5	851.0	867.3	932.8
45°	973.7	995.6	973.7	921.9	853.8	831.9	834.6	831.9	837.4	853.8	916.4
47.5°	957.3	965.6	938.2	886.4	815.5	810.0	821.0	829.2	834.6	848.3	913.7
50°	932.8	932.8	908.3	853.8	782.9	785.6	799.1	818.3	821.0	837.4	889.2
52.5°	902.8	900.1	883.7	831.9	755.5	763.7	763.7	785.6	790.9	810.0	864.6
55°	878.2	872.8	864.6	815.5	731.0	744.6	736.4	744.6	758.3	777.4	837.4
57.5°	856.5	845.5	845.5	801.9	711.9	717.3	698.2	709.2	725.5	741.9	804.5
60°	834.6	823.7	829.2	782.9	681.9	676.5	668.2	690.1	695.6	714.5	777.4
62.5°	810.0	801.9	804.5	761.0	660.0	646.4	646.4	665.5	668.2	695.6	755.5
65°	790.9	780.1	777.4	739.1	635.6	619.2	627.3	635.6	641.0	668.2	725.5
67.5°	771.9	750.1	750.1	720.0	608.2	591.8	608.2	605.6	613.7	638.2	684.6
70°	747.4	717.3	720.0	706.5	580.9	561.8	575.5	572.7	578.2	594.6	641.0
72.5°	709.2	684.6	690.1	684.6	553.7	526.4	531.9	531.9	531.9	545.5	594.6
75°	660.0	641.0	657.3	671.0	520.9	482.8	488.2	488.2	480.0	488.2	548.3
77.5°	600.1	589.1	643.6	624.6	482.8	436.4	436.4	430.9	414.5	425.4	490.9
80°	534.6	526.4	594.6	523.7	439.1	379.1	373.6	360.0	343.6	351.9	417.3
82.5°	466.4	458.3	499.1	401.0	379.1	313.7	300.0	275.5	259.2	267.2	327.3
85°	381.9	381.9	384.6	302.7	289.1	240.1	223.7	190.8	171.9	177.3	234.6
87.5°	272.7	280.9	259.2	207.3	171.9	133.7	122.7	103.7	87.3	100.9	122.7
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°	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2
2.5°	14409.4	14709.5	15050.4	15486.7	15860.4	16474.1	17063.2	17417.8
5°	10773.6	11272.9	11894.6	12693.8	13438.5	14556.7	15666.8	16378.6
7.5°	7710.7	8245.2	8916.2	9914.5	10967.3	12393.9	13861.1	14712.2
10°	6379.6	6927.9	7492.5	8166.1	9028.0	10580.0	12314.7	13274.8
12.5°	5277.8	5864.2	6472.4	7181.5	7980.7	9366.2	11365.4	12470.2
15°	4039.5	4694.0	5411.4	6308.7	7309.7	8910.7	11130.9	12331.0
17.5°	2768.4	3499.3	4380.4	5487.8	6712.4	8763.4	11551.0	12933.8
20°	1906.6	2438.3	3379.4	4677.7	6150.5	8744.3	12358.4	14090.3
22.5°	1595.6	1833.0	2520.2	3933.0	5727.8	8978.9	13610.2	15713.1
25°	1475.5	1617.4	2012.9	3286.6	5419.6	9519.0	15334.0	17813.3
27.5°	1404.6	1532.9	1827.5	2863.9	5176.8	10146.4	17011.4	19848.0
30°	1432.0	1562.9	1775.6	2648.5	4846.7	10670.0	18500.7	21435.5
32.5°	1290.2	1347.3	1522.0	2457.5	4609.4	11109.2	19804.5	22750.1
35°	1099.1	1200.1	1358.3	2367.4	4614.9	11403.7	21225.5	24430.3
37.5°	1047.4	1148.4	1262.8	2334.8	4677.7	11717.4	22856.5	26399.5
40°	1014.6	1107.4	1205.5	2315.6	4737.7	12003.8	24454.9	28347.0
42.5°	992.8	1077.4	1200.1	2250.2	4767.6	12260.1	25769.5	30002.5
45°	990.1	1077.4	1221.9	2184.7	4814.1	12535.7	26871.3	31227.2
47.5°	992.8	1112.8	1181.0	2105.7	4814.1	12996.5	28164.2	32320.8
50°	981.9	1172.8	1137.4	1993.8	4702.2	13869.4	29937.0	33785.5
52.5°	976.4	1164.6	1052.8	1822.0	4508.6	15254.9	32209.1	35803.9
55°	962.8	1123.7	992.8	1565.5	4282.2	16766.0	34642.1	38190.5
57.5°	949.1	995.6	960.1	1341.9	3933.0	17829.7	36316.6	40053.4
60°	1063.7	870.0	932.8	1232.9	3466.7	18121.5	36251.2	40795.2
62.5°	984.7	815.5	897.3	1208.3	3139.3	17303.3	34576.5	40394.3
65°	771.9	780.1	861.8	1279.2	3052.0	15134.9	31609.0	38542.3
67.5°	706.5	744.6	826.4	1369.2	3060.3	12118.3	27174.1	34508.3
70°	665.5	706.5	785.6	1415.6	3082.1	9033.4	21484.5	28107.0
72.5°	619.2	654.6	739.1	1423.7	2940.2	6562.3	16558.7	20666.3
75°	564.6	597.3	673.7	1240.9	2435.6	4552.2	12666.5	14139.4
77.5°	501.8	526.4	591.8	957.3	1808.4	2913.0	9508.1	10329.1
80°	428.2	441.9	496.4	701.0	1238.2	1822.0	7522.5	8288.9
82.5°	343.6	349.1	384.6	526.4	804.5	1170.0	5037.7	5749.6
85°	242.8	242.8	264.5	381.9	548.3	741.9	2735.7	3033.0
87.5°	114.5	117.2	117.2	210.0	286.4	376.4	630.1	387.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)