

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: P298958

Luminaire Tested: **GLNA-AF-08-LED-E1-SLL-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-08-LED-E1-SLL-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Left OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32653.4 lumens
Efficiency: N/A
Efficacy: 97.8 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): 334
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

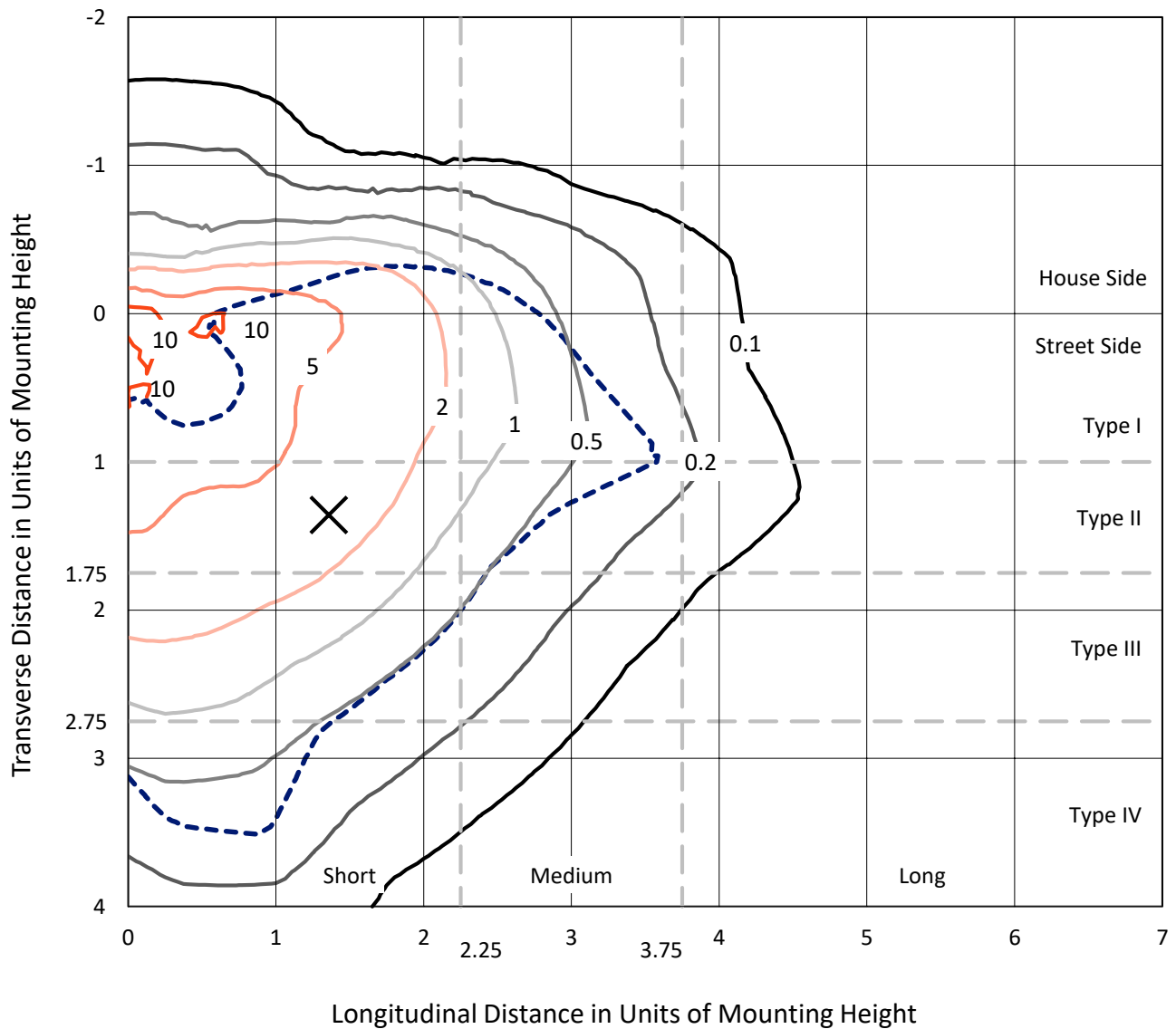


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Iso-Footcandle Lines of Horizontal Illumination

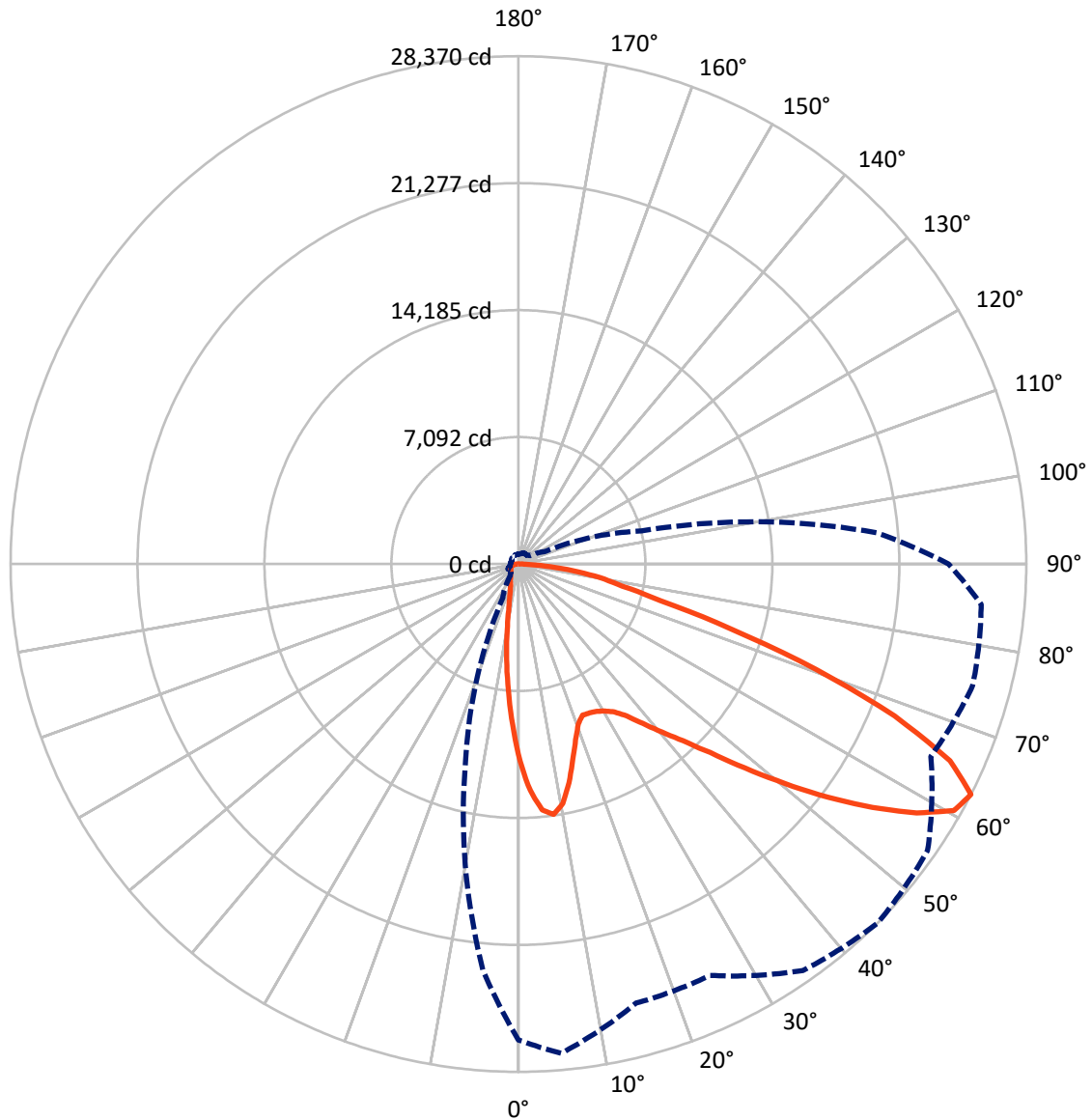
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.4 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	5403.7	0.0	5403.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	27249.7	0.0	27249.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	32653.4	0.0	32653.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	803.1	2.5
10°-20°	1472.6	4.5
20°-30°	2147.1	6.6
30°-40°	3306.9	10.1
40°-50°	4866.8	14.9
50°-60°	7138.6	21.9
60°-70°	7979.9	24.4
70°-80°	3906.8	12.0
80°-90°	1031.5	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°	32653.4	100.0
0°-180°	32653.4	100.0



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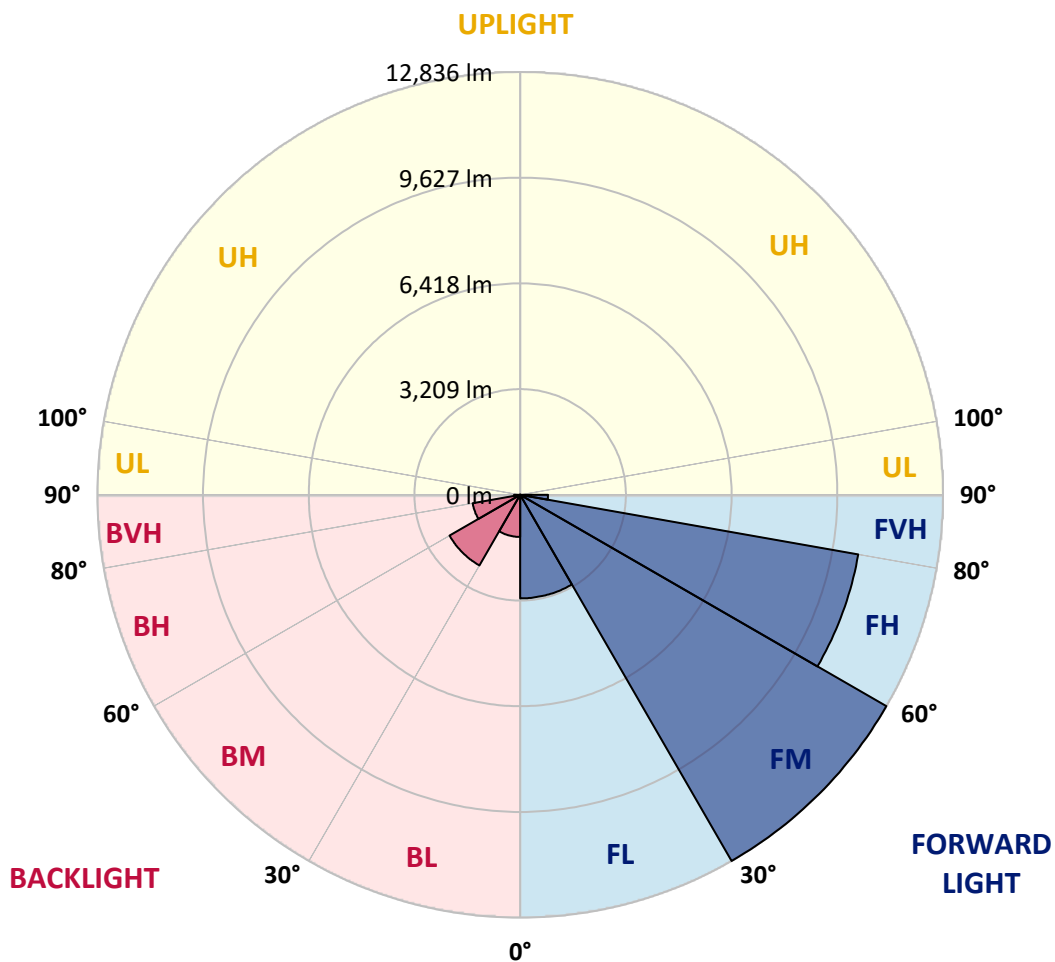
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3144.4	9.6			
FM	(30°-60°)	12836.4	39.3			
FH	(60°-80°)	10421.8	31.9			G4/12000
FVH	(80°-90°)	847.1	2.6			G5
BL	(0°-30°)	1278.4	3.9	B3/2500		
BM	(30°-60°)	2475.9	7.6	B2/2500		
BH	(60°-80°)	1464.9	4.5	B3/2500		G3/2500
BVH	(80°-90°)	184.4	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°	11032.4	11032.4	11032.4	11032.4	11032.4	11032.4	11032.4	11032.4	11032.4	11032.4	11032.4
2.5°	11462.5	11646.0	12003.2	12270.1	12595.9	12671.0	12775.3	12672.8	12491.5	12250.9	12172.2
5°	10779.0	11170.5	12037.0	12800.4	13478.7	13794.5	13883.1	13622.0	13096.4	12405.3	11983.4
7.5°	9682.3	10238.8	11412.4	12536.4	13535.8	14126.6	14112.1	13507.2	12539.9	11414.1	10737.6
10°	8736.0	9371.7	10718.4	11974.7	13035.2	13608.0	13386.6	12613.9	11459.0	10163.0	9429.4
12.5°	8206.9	8829.8	10195.7	11457.2	12344.1	12541.7	12372.7	11615.2	10527.2	9217.3	8574.6
15°	8114.8	8799.5	9987.6	11014.4	11511.4	11339.5	11137.9	10798.8	10030.2	8912.0	8242.4
17.5°	8512.2	9265.7	10226.6	10705.5	10621.1	10321.0	10263.8	10301.7	10117.0	9251.1	8479.6
20°	9273.2	10177.6	10795.3	10560.4	9944.5	9531.4	9546.0	10122.3	10669.4	10111.2	9229.5
22.5°	10340.8	11373.3	11615.2	10637.4	9659.0	9168.9	9287.8	10221.3	11551.1	11368.1	10242.3
25°	11723.0	12664.0	12489.8	10917.1	9687.5	9213.8	9308.8	10562.2	12591.8	12624.4	11495.7
27.5°	13062.0	13934.9	13223.4	11288.8	9806.4	9319.9	9445.7	11098.3	13586.5	13988.5	12928.0
30°	14106.8	14714.0	13514.2	11628.0	10039.5	9526.1	9682.3	11608.2	14039.2	14909.2	14029.9
32.5°	14972.1	15408.0	13977.5	12048.1	10468.4	9850.7	10125.7	12227.6	14690.7	15785.6	15108.5
35°	16077.5	16201.7	14553.8	12516.6	11130.9	10416.5	10757.4	12834.2	15311.9	16670.2	16171.4
37.5°	17374.1	17214.4	15097.4	13157.6	11987.5	11301.1	11583.1	13500.2	15822.9	17673.6	17256.9
40°	18655.5	18270.9	15780.4	14151.7	13236.8	12344.1	12678.0	14211.1	16300.7	18678.8	18318.1
42.5°	19745.1	19175.8	16452.8	15244.9	14399.3	13495.0	13893.5	14927.3	16756.4	19536.5	19238.7
45°	20551.0	19843.6	17093.8	16294.9	16002.4	15024.0	15212.8	15747.1	17250.0	20253.2	19996.3
47.5°	21270.7	20514.9	17818.7	17354.3	17404.4	17012.8	16709.2	16702.2	17832.1	20838.3	20712.4
50°	22234.5	21446.6	18597.8	18445.1	19508.0	19247.5	18578.0	17816.9	18567.5	21502.6	21488.0
52.5°	23563.0	22922.6	19549.3	19621.0	21472.3	21642.4	20812.6	19156.6	19719.5	22721.0	22635.4
55°	25134.0	24759.9	20845.9	20972.9	23880.6	24003.0	23178.4	20830.7	21414.6	24486.0	24247.1
57.5°	26359.5	26280.8	22267.1	22595.7	25679.4	26228.9	25471.4	22770.0	23324.1	25972.0	25372.3
60°	26847.8	27230.0	23780.4	24232.6	27343.7	27951.4	27287.7	24472.6	25016.9	26587.9	25295.4
62.5°	26584.4	27438.1	25392.2	25354.3	27714.8	28369.8	27903.1	25420.7	26272.1	25952.1	24015.8
65°	25365.4	26689.9	26327.4	25065.3	26444.0	26497.6	26346.6	24997.1	26568.1	23943.5	21541.6
67.5°	22709.9	24616.6	25095.6	22588.7	23015.3	22665.7	22412.2	22677.9	25023.9	20933.3	18104.2
70°	18497.5	21366.2	21595.2	18066.9	17872.9	17637.5	17133.4	18592.5	21978.1	17156.7	14365.5
72.5°	13601.0	16616.6	17321.6	13250.8	12353.4	12401.2	12003.2	14011.3	17869.4	12744.4	10725.4
75°	9305.3	12031.8	13552.7	9245.9	8169.6	8188.8	8138.1	9928.2	14232.7	8865.3	8025.7
77.5°	6797.9	8596.1	10221.3	6215.8	6034.5	5923.2	5896.4	6946.5	10911.8	6437.2	6232.1
80°	5454.7	6351.0	6865.5	4308.0	4632.5	4623.8	4474.6	4776.5	7126.0	4708.3	4661.1
82.5°	3784.1	4880.8	5562.5	3376.2	3126.8	3074.4	3111.1	3557.4	5036.9	3218.3	3060.4
85°	1996.4	3241.6	5508.9	2992.2	1855.9	1480.7	1841.9	2913.0	4363.9	1705.6	1492.9
87.5°	255.2	937.0	3647.2	1194.0	732.5	394.5	874.6	1640.3	2802.3	347.9	303.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	11032.4	11032.4	11032.4	11032.4	11032.4	11032.4	11032.4	11032.4	11032.4	11032.4	11032.4
2.5°	11969.4	11730.5	11418.2	11128.6	10829.1	10530.7	10141.5	9897.3	9728.9	9696.3	9625.2
5°	11678.7	10885.0	10285.4	9766.8	9296.6	8631.7	8264.0	7958.6	7795.5	7779.8	7740.1
7.5°	10337.3	9242.4	8433.0	7698.8	7032.7	6496.0	5903.4	5627.8	5514.2	5541.0	5567.8
10°	8942.3	7718.6	6788.6	6038.0	5451.2	4999.1	4523.6	4202.5	3979.3	3934.5	3925.7
12.5°	7923.1	6580.5	5677.9	5147.7	4694.3	4268.3	3764.3	3385.0	3096.5	2997.5	2931.6
15°	7491.9	6024.1	5078.3	4507.3	4006.1	3466.0	2997.5	2600.6	2335.5	2249.3	2200.9
17.5°	7584.0	5869.6	4665.2	3934.5	3294.1	2730.0	2139.7	1800.0	1640.3	1599.5	1599.5
20°	8065.3	5841.1	4323.7	3407.1	2607.6	1954.4	1470.2	1276.1	1224.3	1219.0	1233.0
22.5°	8740.1	5941.9	4069.6	2949.7	2026.7	1427.1	1145.0	1073.4	1050.0	1055.9	1071.6
25°	9745.2	6281.0	3884.9	2541.8	1590.2	1168.3	1020.9	978.4	967.3	981.9	1001.7
27.5°	10936.9	6620.2	3769.5	2234.7	1342.6	1068.1	970.8	926.5	933.5	951.6	969.0
30°	11983.4	6898.7	3588.3	2016.2	1265.6	1073.4	970.8	910.2	903.2	906.7	911.9
32.5°	12922.8	7086.9	3376.2	1807.6	1091.4	953.3	906.7	898.0	857.7	843.2	845.5
35°	13732.1	7086.9	3249.2	1685.8	978.4	845.5	770.3	725.5	705.1	706.8	727.2
37.5°	14513.0	6944.7	3186.3	1617.0	917.2	804.1	737.7	698.1	671.3	666.0	669.5
40°	15201.7	6738.5	3114.6	1588.5	870.6	779.1	716.7	683.5	655.0	646.2	648.0
42.5°	15754.7	6571.2	3035.3	1551.2	841.4	761.0	701.6	673.0	641.0	631.7	629.9
45°	16352.6	6515.9	2931.6	1475.4	856.0	762.8	698.1	667.8	635.2	624.7	621.2
47.5°	17140.4	6690.1	2823.8	1385.7	886.9	772.1	703.3	667.8	633.4	624.7	621.2
50°	18132.8	7099.2	2686.9	1254.6	856.0	797.1	701.6	662.0	633.4	624.7	617.7
52.5°	19407.7	7652.1	2508.0	1104.2	837.9	857.7	698.1	651.5	624.7	612.4	599.6
55°	20956.6	8104.3	2293.5	980.1	797.1	841.4	692.8	639.2	610.7	592.6	581.5
57.5°	22091.1	8267.5	2019.7	899.7	739.5	814.6	685.3	622.9	592.6	578.0	564.1
60°	21866.8	7951.7	1787.8	849.0	705.1	736.0	680.0	608.3	576.3	565.8	552.4
62.5°	20070.3	7126.0	1638.6	825.7	683.5	671.3	685.3	594.4	562.3	550.7	547.2
65°	17375.8	5906.9	1579.7	820.5	666.0	633.4	637.5	578.0	545.4	536.7	533.2
67.5°	14332.9	4767.7	1527.9	837.9	642.7	606.6	589.1	556.5	529.1	520.4	513.4
70°	11302.8	3965.3	1504.0	827.4	614.2	579.8	560.6	533.2	509.9	500.5	495.3
72.5°	9101.9	3349.4	1491.2	816.4	576.3	543.7	525.6	502.3	477.2	473.7	468.5
75°	7702.8	2633.3	1366.5	782.6	533.2	500.5	488.3	466.8	441.7	441.7	438.2
77.5°	5941.9	1904.3	1136.3	692.8	488.3	452.2	441.7	425.4	396.8	402.1	400.3
80°	4389.0	1242.3	888.6	574.6	433.0	398.6	392.7	377.0	346.1	353.7	353.7
82.5°	3006.8	814.6	639.2	470.2	369.4	337.4	337.4	321.1	287.3	290.8	301.8
85°	1509.8	560.6	477.2	364.2	287.3	271.0	271.0	258.7	224.3	226.1	240.7
87.5°	459.8	337.4	315.8	260.5	206.3	202.8	193.5	184.7	163.2	161.4	170.7
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	11032.4	11032.4	11032.4	11032.4	11032.4	11032.4	11032.4	11032.4	11032.4	11032.4	11032.4
2.5°	9515.1	9412.5	9289.6	9016.3	8924.8	8919.0	9002.3	8915.5	9080.9	9011.0	9087.9
5°	7673.1	7573.5	7434.8	7086.9	6874.8	6730.9	6663.3	6462.3	6607.3	6501.3	6589.9
7.5°	5643.5	5666.9	5575.4	5370.8	4909.3	4678.0	4541.6	4419.3	4525.3	4514.3	4683.2
10°	3967.1	4029.4	3965.3	3759.1	3385.0	3257.9	3283.0	3331.4	3470.0	3541.1	3801.6
12.5°	2855.9	2852.4	2811.0	2626.3	2380.4	2394.4	2496.9	2580.8	2708.4	2784.2	3049.3
15°	2132.1	2100.1	2082.0	1931.1	1791.2	1822.1	1872.2	1881.0	1962.0	2006.9	2222.5
17.5°	1611.8	1628.1	1647.3	1540.1	1434.0	1414.2	1375.2	1326.2	1350.1	1358.9	1466.1
20°	1279.6	1344.3	1393.3	1317.5	1210.3	1152.0	1101.9	1069.9	1069.9	1068.1	1098.4
22.5°	1118.2	1164.8	1217.3	1164.8	1068.1	1017.4	988.9	963.8	960.3	960.3	988.9
25°	1030.8	1064.6	1114.7	1079.2	1006.9	969.0	942.2	910.2	898.0	893.9	913.7
27.5°	987.1	1001.7	1026.7	994.1	933.5	915.4	908.4	879.9	863.0	854.3	874.6
30°	913.7	910.2	911.9	879.9	830.9	829.2	841.4	847.3	841.4	839.7	870.6
32.5°	845.5	837.9	836.2	807.6	762.8	752.3	762.8	773.8	786.1	804.1	839.7
35°	759.3	777.3	787.8	762.8	708.6	676.5	664.3	644.5	633.4	633.4	674.8
37.5°	691.1	732.5	748.8	725.5	666.0	621.2	599.6	596.1	597.9	604.9	644.5
40°	667.8	698.1	712.1	689.3	629.9	589.1	576.3	572.8	576.3	587.4	626.4
42.5°	653.2	674.8	673.0	644.5	596.1	567.6	560.6	556.5	560.6	571.1	614.2
45°	641.0	655.0	641.0	606.6	562.3	547.2	548.9	547.2	550.7	562.3	603.1
47.5°	629.9	635.2	617.7	583.3	536.7	533.2	540.2	545.4	548.9	558.8	601.4
50°	614.2	614.2	597.9	562.3	515.1	516.9	525.6	538.4	540.2	550.7	585.6
52.5°	594.4	592.6	581.5	547.2	497.1	502.3	502.3	516.9	520.4	533.2	569.3
55°	578.0	574.6	569.3	536.7	481.3	490.1	484.8	490.1	498.8	511.6	550.7
57.5°	564.1	556.5	556.5	527.4	468.5	472.0	459.8	466.8	477.2	488.3	529.1
60°	548.9	541.9	545.4	515.1	448.7	445.2	439.9	453.9	458.0	470.2	511.6
62.5°	533.2	527.4	529.1	500.5	434.7	425.4	425.4	438.2	439.9	458.0	497.1
65°	520.4	513.4	511.6	486.6	418.4	407.9	413.1	418.4	421.9	439.9	477.2
67.5°	508.1	493.6	493.6	473.7	400.3	389.3	400.3	398.6	404.4	420.1	450.4
70°	491.8	472.0	473.7	465.0	382.3	369.4	378.8	377.0	380.5	391.0	421.9
72.5°	466.8	450.4	453.9	450.4	364.2	346.1	349.6	349.6	349.6	358.9	391.0
75°	434.7	421.9	433.0	441.7	342.6	317.6	321.1	321.1	315.8	321.1	360.7
77.5°	394.5	387.5	423.6	411.4	317.6	287.3	287.3	283.8	273.3	280.3	322.8
80°	352.0	346.1	391.0	344.4	289.0	250.0	245.9	236.6	226.1	231.3	275.0
82.5°	307.1	301.8	328.6	264.0	250.0	206.3	197.5	181.2	170.7	176.0	215.0
85°	251.7	251.7	253.5	199.3	190.0	157.9	147.4	125.9	113.0	116.5	154.4
87.5°	179.5	184.7	170.7	136.4	113.0	88.0	81.0	68.2	57.1	66.4	81.0
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	11032.4	11032.4	11032.4	11032.4	11032.4	11032.4	11032.4	11032.4
2.5°	9483.0	9680.6	9904.9	10191.6	10438.1	10841.3	11229.4	11462.5
5°	7090.4	7419.1	7827.5	8354.3	8844.4	9579.7	10310.5	10779.0
7.5°	5074.2	5426.2	5867.9	6524.6	7218.0	8156.2	9122.3	9682.3
10°	4199.0	4559.7	4930.9	5374.3	5941.9	6962.8	8104.3	8736.0
12.5°	3473.5	3859.3	4259.6	4726.4	5252.0	6163.9	7479.7	8206.9
15°	2658.3	3088.9	3560.9	4151.8	4810.3	5864.4	7325.2	8114.8
17.5°	1822.1	2303.5	2882.7	3611.6	4417.5	5767.1	7602.0	8512.2
20°	1254.6	1604.8	2224.2	3078.5	4048.1	5754.8	8132.9	9273.2
22.5°	1050.0	1206.2	1658.4	2588.4	3769.5	5909.3	8957.4	10340.8
25°	970.8	1064.6	1324.5	2163.0	3566.8	6264.7	10092.0	11723.0
27.5°	924.8	1008.7	1202.7	1885.1	3407.1	6677.3	11195.6	13062.0
30°	942.2	1028.5	1168.3	1742.9	3189.8	7021.7	12175.7	14106.8
32.5°	849.0	886.9	1001.7	1617.0	3033.6	7310.7	13033.5	14972.1
35°	723.7	789.6	893.9	1558.2	3037.1	7504.7	13968.7	16077.5
37.5°	689.3	755.8	830.9	1536.6	3078.5	7711.6	15042.1	17374.1
40°	667.8	729.0	793.7	1524.4	3118.1	7899.8	16094.4	18655.5
42.5°	653.2	708.6	789.6	1480.7	3137.9	8068.8	16959.2	19745.1
45°	651.5	708.6	804.1	1437.5	3168.2	8250.0	17684.7	20551.0
47.5°	653.2	732.5	777.3	1385.7	3168.2	8553.0	18535.4	21270.7
50°	646.2	772.1	748.8	1312.3	3094.8	9127.6	19702.0	22234.5
52.5°	642.7	766.8	692.8	1199.2	2967.2	10039.5	21197.2	23563.0
55°	633.4	739.5	653.2	1030.8	2818.6	11034.2	22798.5	25134.0
57.5°	624.7	655.0	631.7	883.4	2588.4	11734.0	23900.4	26359.5
60°	699.8	572.8	614.2	811.1	2281.3	11925.7	23857.9	26847.8
62.5°	648.0	536.7	590.9	795.4	2066.3	11387.3	22755.4	26584.4
65°	508.1	513.4	567.6	841.4	2008.6	9960.8	20802.2	25365.4
67.5°	465.0	490.1	543.7	901.5	2014.4	7975.0	17883.9	22709.9
70°	438.2	465.0	516.9	931.8	2028.4	5945.4	14138.9	18497.5
72.5°	407.9	431.2	486.6	937.0	1934.6	4318.5	10897.8	13601.0
75°	371.2	392.7	443.4	816.4	1603.0	2995.7	8336.2	9305.3
77.5°	330.4	346.1	389.3	629.9	1190.5	1917.1	6257.1	6797.9
80°	282.0	290.8	326.9	461.5	814.6	1199.2	4950.7	5454.7
82.5°	226.1	229.6	253.5	346.1	529.1	770.3	3315.6	3784.1
85°	159.7	159.7	174.2	251.7	360.7	488.3	1800.0	1996.4
87.5°	75.2	76.9	76.9	138.1	188.2	248.2	414.9	255.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)