

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: P301561

Luminaire Tested: **GLNA-AF-01-LED-E1-T2R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194759)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-T2R-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6258.1 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

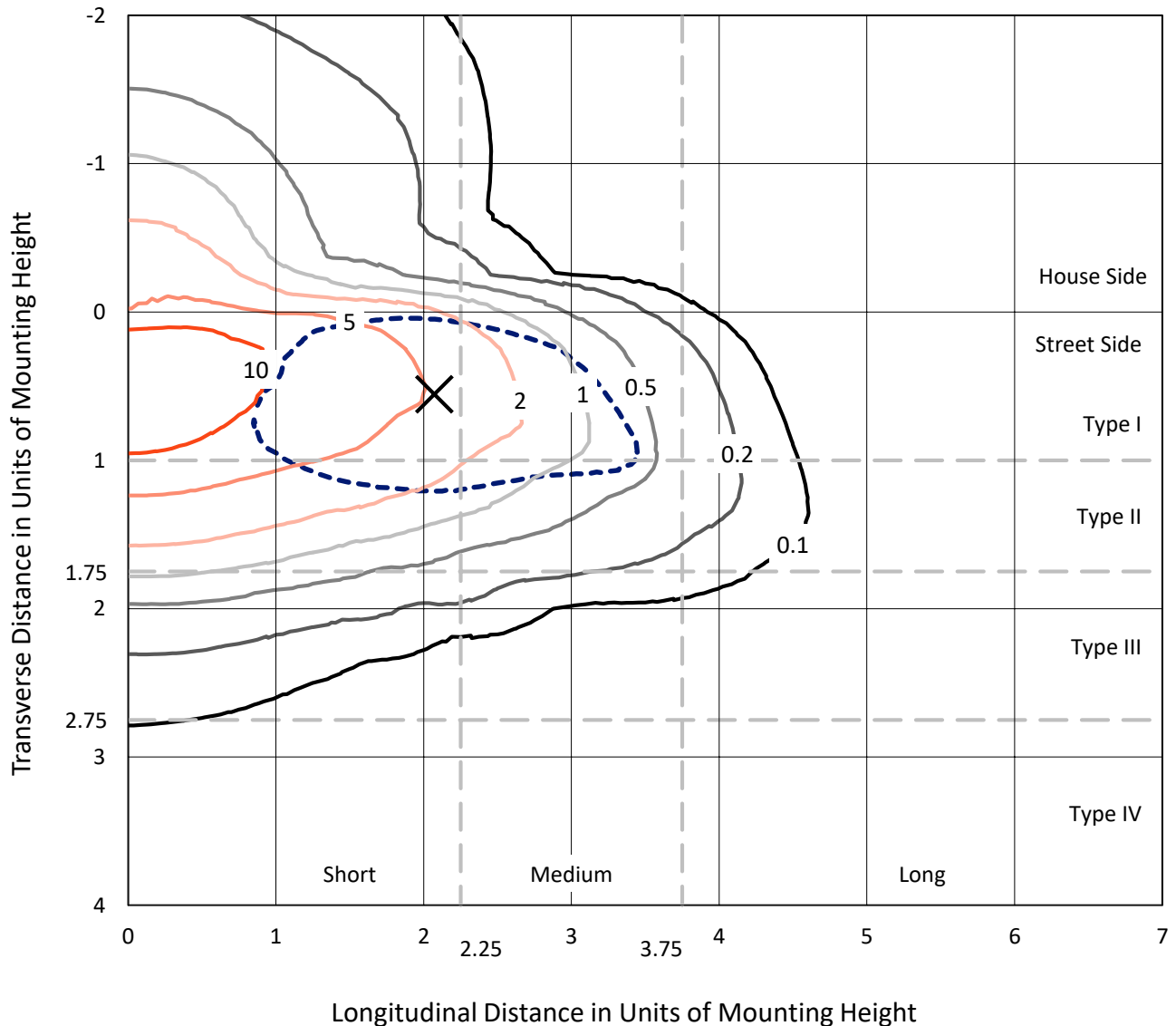
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

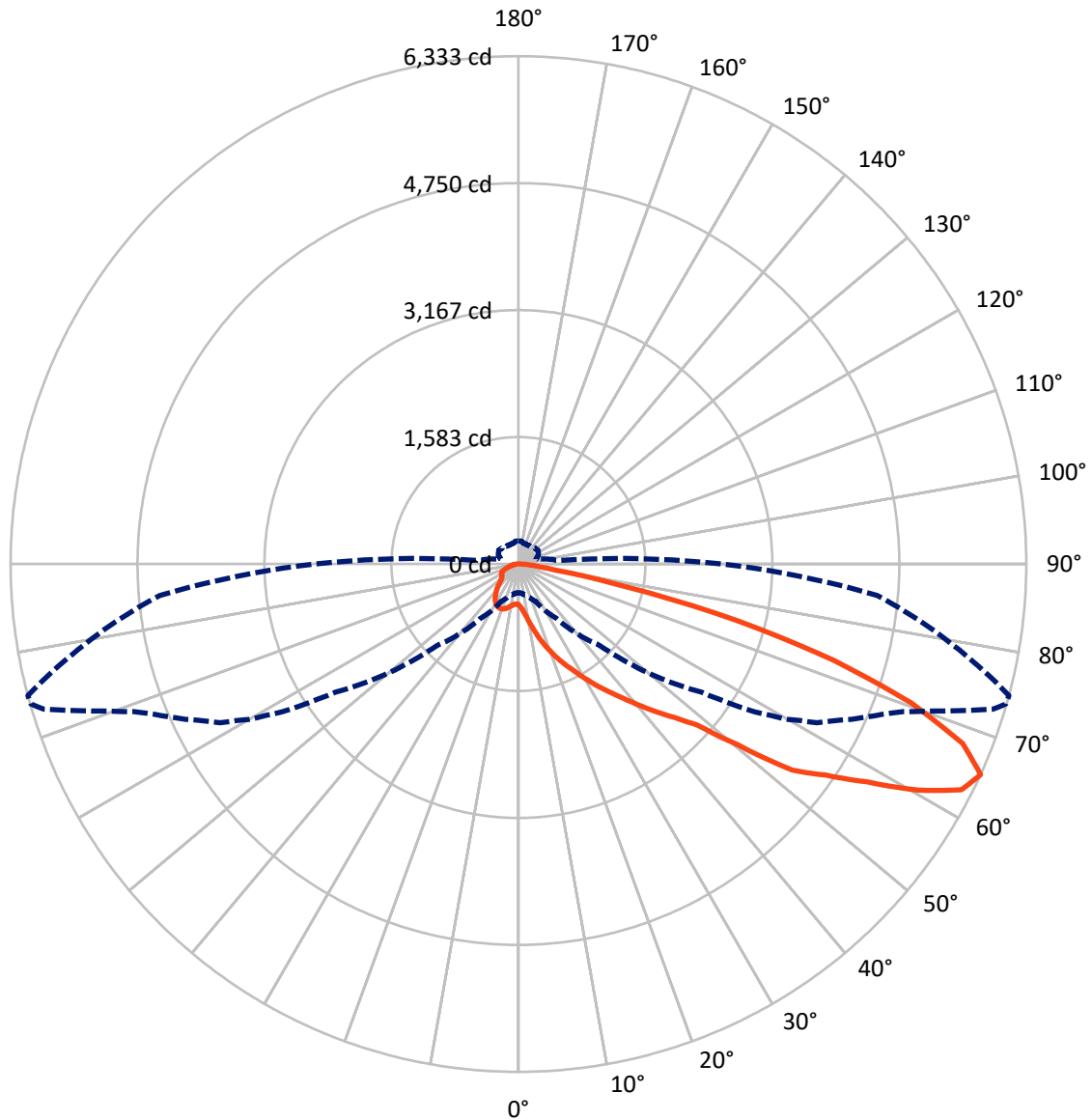
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	964.8	0.0	964.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	5293.2	0.0	5293.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	6258.1	0.0	6258.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.9	1.0
10°-20°	245.6	3.9
20°-30°	503.9	8.1
30°-40°	847.8	13.5
40°-50°	1171.5	18.7
50°-60°	1462.4	23.4
60°-70°	1316.0	21.0
70°-80°	551.6	8.8
80°-90°	96.4	1.5
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°	6258.1	100.0
0°-180°	6258.1	100.0

Coefficient of Utilization



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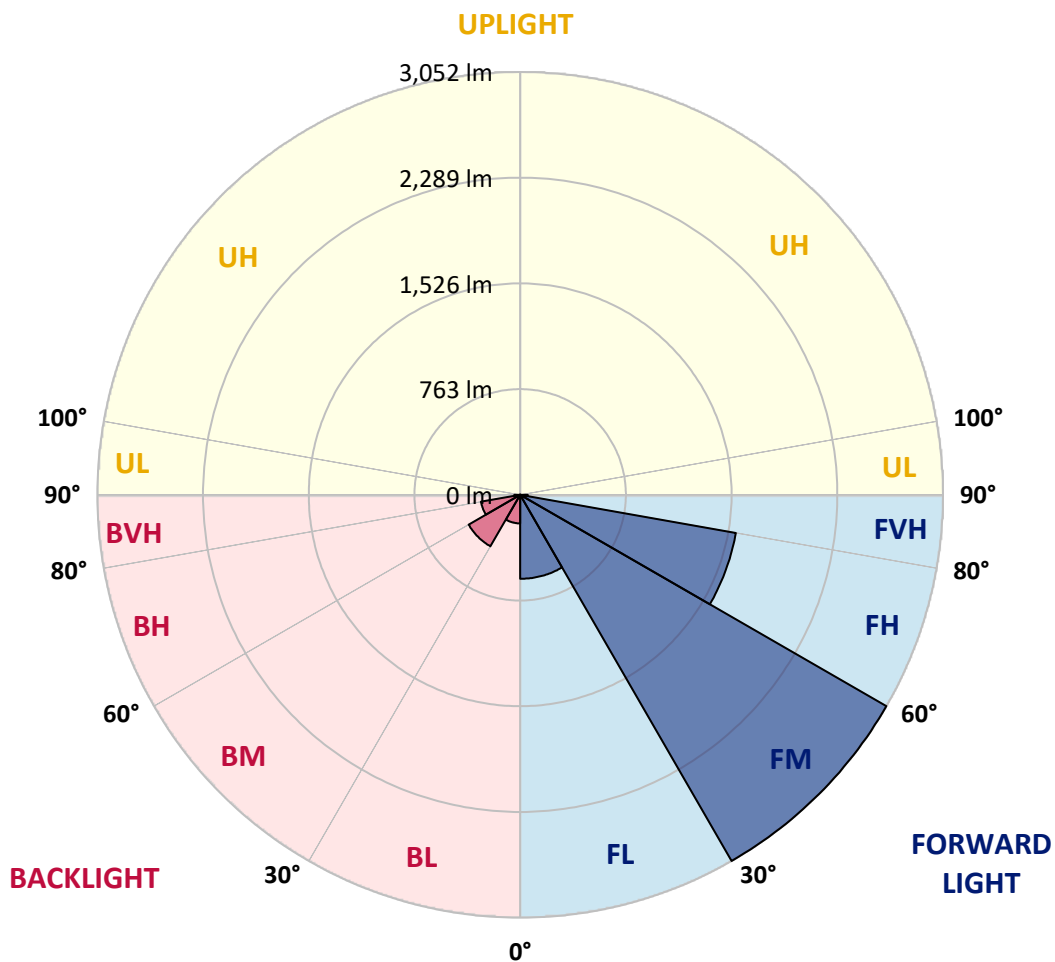
CATALOG NUMBER: GLNA-AF-01-LED-E1-T2R-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	606.1	9.7			
FM (30°-60°)	3052.2	48.8			
FH (60°-80°)	1580.8	25.3			G1/1800
FVH (80°-90°)	54.2	0.9			G1/100
BL (0°-30°)	206.3	3.3	B1/500		
BM (30°-60°)	429.5	6.9	B1/1000		
BH (60°-80°)	286.8	4.6	B1/500		G1/500
BVH (80°-90°)	42.2	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6
2.5°	645.8	638.6	640.4	628.5	614.0	595.1	574.0	573.8	574.0	571.9	564.3
5°	895.4	886.9	883.6	856.9	817.8	762.2	701.7	695.2	692.5	685.7	670.0
7.5°	1077.6	1072.9	1067.8	1047.7	1012.2	950.0	868.8	854.9	841.5	838.3	820.5
10°	1195.2	1194.0	1183.3	1178.0	1155.8	1101.9	1022.8	1009.4	994.9	989.9	971.2
12.5°	1288.2	1287.9	1282.9	1284.4	1265.1	1226.0	1157.9	1145.7	1135.1	1119.6	1106.4
15°	1352.5	1352.7	1360.2	1368.5	1365.5	1339.1	1275.2	1269.8	1260.7	1250.0	1234.3
17.5°	1405.2	1406.7	1414.3	1429.5	1445.8	1443.7	1393.1	1388.6	1380.6	1366.1	1357.8
20°	1524.3	1529.9	1515.1	1515.1	1516.9	1524.9	1500.5	1497.0	1485.8	1478.0	1471.5
22.5°	1725.4	1731.9	1698.4	1664.4	1630.9	1606.6	1582.3	1586.7	1579.1	1573.7	1569.9
25°	1986.6	1991.7	1937.5	1880.1	1811.9	1723.0	1662.9	1660.2	1656.1	1652.8	1651.1
27.5°	2232.5	2234.6	2183.4	2099.2	2020.1	1892.4	1744.6	1741.4	1736.4	1730.1	1724.8
30°	2442.9	2442.2	2389.5	2309.2	2224.5	2083.2	1868.8	1858.7	1843.8	1827.0	1814.0
32.5°	2625.0	2624.1	2566.3	2483.1	2394.3	2272.2	2038.8	2018.1	1995.0	1962.0	1942.3
35°	2768.3	2767.8	2713.2	2626.5	2524.6	2450.2	2233.7	2208.2	2178.9	2134.8	2104.3
37.5°	2822.5	2822.5	2792.0	2732.8	2642.8	2591.8	2450.2	2419.4	2388.0	2337.9	2303.6
40°	2790.8	2791.4	2797.9	2787.0	2743.2	2704.1	2652.2	2633.9	2606.9	2561.9	2526.1
42.5°	2684.5	2687.7	2731.1	2784.0	2805.9	2799.8	2831.4	2823.2	2804.2	2769.6	2741.1
45°	2549.7	2559.8	2607.2	2707.3	2823.4	2882.4	2981.6	2982.5	2978.9	2960.3	2938.3
47.5°	2364.6	2378.8	2441.4	2576.7	2782.6	2962.7	3134.1	3142.1	3149.6	3137.5	3127.4
50°	2118.8	2135.7	2229.2	2408.8	2699.3	3045.9	3422.3	3458.5	3492.3	3488.1	3494.9
52.5°	1855.4	1875.3	1989.9	2189.9	2556.3	3065.1	3606.6	3665.6	3724.5	3772.8	3824.0
55°	1617.8	1607.2	1721.9	1932.4	2321.1	2978.3	3772.2	3843.3	3909.0	3968.3	4029.3
57.5°	1295.9	1313.4	1428.3	1636.6	2009.7	2733.3	3886.2	3990.2	4084.7	4182.8	4269.2
60°	947.2	964.7	1089.4	1300.9	1671.8	2361.9	3799.1	3956.8	4108.1	4258.2	4375.5
62.5°	571.9	585.0	694.9	896.4	1289.1	1921.5	3411.1	3617.8	3840.6	4020.1	4199.9
65°	356.0	363.4	404.0	514.8	827.9	1434.6	2787.0	3012.4	3252.3	3480.1	3667.0
67.5°	291.5	294.1	301.6	325.2	454.6	935.5	2074.3	2274.0	2490.5	2710.9	2918.8
70°	262.1	260.4	260.4	261.9	291.5	503.0	1358.1	1488.2	1668.5	1860.2	2050.3
72.5°	236.6	234.9	231.6	227.2	237.9	306.8	702.0	800.0	930.1	1100.4	1282.5
75°	212.6	210.3	206.5	200.9	208.3	231.6	337.1	378.3	441.6	532.3	633.9
77.5°	187.8	184.8	181.3	177.1	186.6	180.1	197.5	212.4	236.6	265.7	303.9
80°	159.7	157.0	155.8	153.8	165.0	137.2	139.5	148.7	162.9	178.6	196.4
82.5°	125.0	125.0	129.7	130.7	143.1	98.7	104.3	112.3	119.7	127.9	136.3
85°	82.3	82.9	98.9	105.2	112.8	66.3	78.2	80.8	86.8	91.6	95.1
87.5°	25.7	27.9	60.5	67.0	64.8	37.6	48.0	49.2	53.3	56.6	59.6
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6
2.5°	564.3	560.7	557.4	557.2	554.8	551.6	552.7	547.7	548.0	545.3	542.3
5°	663.5	661.1	649.3	646.0	637.1	631.5	630.6	618.8	617.3	610.5	603.0
7.5°	806.3	798.6	781.9	774.0	758.8	747.6	742.3	726.6	718.9	701.1	693.1
10°	955.8	946.1	925.6	914.4	899.9	881.8	872.0	849.3	840.3	824.0	804.5
12.5°	1094.5	1084.7	1063.7	1055.0	1035.8	1016.6	1005.9	980.2	968.6	942.5	927.1
15°	1222.7	1212.9	1194.6	1185.7	1166.5	1150.7	1136.5	1111.1	1097.5	1073.1	1053.0
17.5°	1347.1	1336.8	1320.8	1312.8	1294.1	1278.1	1262.8	1238.7	1224.8	1200.6	1182.5
20°	1462.7	1454.9	1443.4	1432.7	1414.1	1399.6	1381.2	1360.5	1340.4	1322.5	1305.4
22.5°	1563.4	1560.4	1548.0	1543.2	1527.3	1514.8	1498.8	1478.4	1463.8	1441.3	1425.3
25°	1650.2	1649.3	1643.3	1641.8	1630.6	1618.7	1615.2	1598.3	1585.0	1565.1	1548.6
27.5°	1724.8	1725.7	1724.3	1728.4	1725.4	1720.0	1720.4	1714.8	1707.0	1690.4	1675.9
30°	1807.7	1803.0	1805.7	1811.6	1813.4	1814.0	1823.7	1827.0	1826.5	1815.5	1808.3
32.5°	1925.0	1913.8	1903.4	1902.5	1908.4	1910.8	1927.4	1936.0	1943.4	1946.0	1947.3
35°	2074.6	2052.1	2030.5	2019.0	2008.9	2011.5	2023.4	2037.3	2053.6	2064.8	2078.2
37.5°	2263.0	2235.5	2197.3	2170.0	2163.2	2148.4	2156.0	2167.0	2183.0	2200.5	2223.6
40°	2491.4	2449.6	2406.7	2370.5	2351.0	2323.7	2323.4	2321.3	2331.2	2347.4	2380.0
42.5°	2711.2	2674.1	2628.5	2590.6	2565.2	2528.7	2521.3	2502.1	2506.5	2520.7	2552.4
45°	2917.0	2886.5	2858.7	2814.9	2793.2	2753.8	2741.3	2718.6	2705.8	2712.3	2744.1
47.5°	3116.4	3096.9	3067.8	3039.4	3022.8	2987.6	2971.6	2955.2	2939.0	2938.3	2971.6
50°	3505.0	3494.6	3460.3	3430.7	3438.7	3395.4	3398.1	3354.2	3374.1	3376.5	3446.1
52.5°	3870.2	3906.4	3931.9	3962.9	3983.1	3987.0	4000.2	4020.1	4044.1	4091.5	4156.0
55°	4079.3	4124.7	4151.0	4174.8	4213.9	4222.1	4244.3	4270.7	4291.7	4345.0	4399.9
57.5°	4327.9	4412.0	4452.9	4490.5	4543.2	4563.3	4600.4	4629.1	4656.4	4719.5	4785.8
60°	4481.0	4583.5	4666.7	4726.2	4792.3	4839.8	4895.7	4940.7	5004.7	5080.2	5179.2
62.5°	4359.3	4509.7	4620.3	4722.4	4812.2	4902.8	4983.1	5067.2	5164.3	5278.7	5432.2
65°	3874.4	4027.5	4216.8	4322.8	4441.6	4581.4	4703.5	4839.8	4972.1	5138.6	5365.5
67.5°	3119.1	3297.0	3509.8	3616.7	3753.2	3909.3	4046.2	4212.6	4367.3	4568.9	4849.5
70°	2248.2	2478.4	2657.3	2768.9	2928.3	3089.1	3221.3	3415.0	3542.9	3749.6	4039.7
72.5°	1423.6	1605.1	1824.3	1965.0	2106.6	2269.6	2404.6	2571.7	2691.0	2879.4	3142.1
75°	765.4	899.3	1091.8	1225.4	1377.1	1516.3	1674.4	1786.4	1874.7	2023.7	2237.0
77.5°	358.7	440.1	537.6	640.4	743.2	850.4	954.7	1045.3	1083.3	1168.6	1294.4
80°	217.7	244.1	272.5	304.2	347.2	381.8	427.7	460.9	463.2	490.2	528.7
82.5°	145.4	155.2	163.8	171.8	182.8	191.4	201.1	212.6	217.4	223.6	236.1
85°	99.2	103.9	105.7	110.8	109.6	112.6	116.4	120.3	122.3	122.1	127.7
87.5°	61.0	63.4	64.6	65.7	64.8	63.7	65.5	67.6	68.1	66.3	67.0
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6
2.5°	542.9	540.3	537.6	535.8	535.2	519.6	512.7	508.3	498.8	491.1	484.9
5°	598.9	593.3	588.9	583.5	580.6	540.8	526.3	516.3	499.7	490.0	481.0
7.5°	689.0	673.3	664.1	653.7	644.9	573.2	549.2	533.5	510.3	497.3	487.2
10°	791.2	774.9	760.3	744.3	730.5	616.1	581.2	556.8	526.3	509.5	496.1
12.5°	905.2	889.2	870.9	850.4	832.6	670.6	622.0	587.4	545.6	523.1	504.5
15°	1040.0	1011.8	989.6	965.9	945.2	735.8	669.7	621.8	566.1	535.6	510.7
17.5°	1165.2	1135.6	1105.5	1084.7	1060.8	808.9	717.7	656.6	582.9	543.6	511.8
20°	1287.6	1255.3	1229.3	1201.4	1176.2	884.8	768.9	687.5	593.9	543.8	504.5
22.5°	1395.5	1375.2	1346.2	1316.0	1290.5	960.6	816.9	713.6	598.0	537.1	491.4
25°	1518.0	1496.8	1461.2	1435.7	1407.3	1037.9	864.0	733.7	595.7	524.3	471.2
27.5°	1649.0	1625.3	1588.9	1562.2	1527.9	1118.1	907.2	748.2	586.8	503.6	444.3
30°	1785.5	1763.9	1728.0	1701.1	1666.4	1203.2	955.6	758.0	569.0	474.8	412.9
32.5°	1932.2	1914.1	1878.6	1850.4	1813.4	1295.3	1000.6	760.9	542.1	440.8	379.8
35°	2071.3	2059.0	2029.0	2002.6	1964.1	1382.4	1048.3	759.5	510.1	403.4	349.5
37.5°	2228.1	2220.6	2205.9	2172.4	2125.3	1500.5	1105.5	753.2	471.0	366.4	326.4
40°	2395.1	2395.8	2379.8	2356.9	2313.1	1643.9	1173.6	741.1	428.3	333.8	305.3
42.5°	2571.9	2581.2	2573.4	2557.2	2515.1	1788.5	1255.0	726.3	386.9	302.1	284.7
45°	2774.6	2785.8	2797.7	2773.7	2732.8	1979.3	1362.2	707.1	342.1	275.7	270.5
47.5°	3008.3	3026.0	3036.7	3037.0	2996.2	2215.6	1536.4	695.5	302.4	258.0	263.6
50°	3501.4	3507.1	3532.3	3576.1	3544.7	2762.7	1840.6	688.4	275.5	247.0	258.6
52.5°	4212.0	4274.0	4317.5	4314.6	4271.9	3110.1	2008.3	651.6	259.5	242.9	256.2
55°	4501.5	4578.8	4659.4	4680.6	4647.5	3406.7	2166.8	614.9	251.7	245.9	257.1
57.5°	4887.1	5017.4	5128.0	5174.4	5126.5	3786.1	2375.3	595.7	249.4	253.9	262.7
60°	5337.6	5498.8	5643.9	5727.4	5727.4	4222.1	2591.5	587.7	246.1	265.7	272.2
62.5°	5627.1	5863.7	6082.9	6205.2	6201.6	4525.7	2687.5	560.4	238.7	274.0	285.2
65°	5628.2	5909.6	6188.9	6326.4	6333.4	4488.4	2529.1	495.0	225.1	275.2	298.3
67.5°	5159.1	5459.1	5784.6	5938.4	5973.9	4131.8	2189.3	407.0	202.9	263.3	303.1
70°	4357.2	4650.1	4982.4	5133.6	5196.7	3522.2	1763.3	313.7	174.5	237.2	293.2
72.5°	3432.7	3720.0	3951.4	4061.8	4111.1	2692.2	1284.0	237.0	143.1	199.9	266.9
75°	2430.4	2646.0	2768.9	2793.5	2801.2	1622.9	780.2	176.3	117.9	155.5	225.4
77.5°	1371.7	1464.2	1454.1	1465.0	1373.8	626.5	339.8	126.2	97.2	118.2	174.8
80°	535.6	552.2	518.7	508.3	466.2	233.1	149.9	88.0	77.6	89.5	122.3
82.5°	236.1	243.7	236.6	238.5	228.1	120.3	89.7	63.7	59.2	65.5	81.2
85°	130.0	132.4	131.8	135.7	130.0	48.0	42.6	39.1	41.5	44.5	52.1
87.5°	63.4	64.0	61.9	65.2	63.1	24.3	21.0	22.2	24.3	24.9	24.9
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):

	135°	145°	155°	165°	175°	180°
0°	508.6	508.6	508.6	508.6	508.6	508.6
2.5°	480.5	478.1	478.4	477.7	476.6	476.6
5°	476.3	474.0	474.0	473.4	471.9	472.1
7.5°	480.5	476.6	475.1	473.0	471.0	471.0
10°	485.2	478.4	474.2	470.7	468.0	468.0
12.5°	488.7	478.1	471.2	466.5	463.9	463.9
15°	490.0	476.0	466.5	460.9	458.5	458.2
17.5°	486.1	468.0	456.5	450.0	447.0	446.1
20°	474.2	453.5	439.6	432.1	428.0	426.5
22.5°	456.5	432.8	416.5	408.8	403.4	402.5
25°	431.6	406.1	390.1	382.7	379.8	378.8
27.5°	402.5	378.8	365.2	360.4	357.8	357.5
30°	375.0	354.8	344.8	341.2	337.9	337.4
32.5°	349.2	336.5	332.7	327.6	319.9	319.1
35°	330.8	329.7	327.0	315.7	306.3	303.6
37.5°	319.6	330.6	316.9	294.7	287.9	287.3
40°	313.1	321.4	298.0	290.3	290.8	290.3
42.5°	298.3	306.8	298.6	295.1	297.3	298.0
45°	283.5	293.0	303.1	300.7	306.3	306.3
47.5°	275.2	289.4	302.7	302.7	311.1	314.0
50°	265.7	286.5	298.0	302.1	308.7	306.3
52.5°	265.1	281.4	291.2	298.6	301.6	298.8
55°	266.0	277.2	284.3	292.7	296.2	296.5
57.5°	267.2	274.9	279.6	283.5	294.1	294.1
60°	270.1	272.8	275.5	277.6	291.5	291.7
62.5°	274.9	270.7	270.1	272.2	290.0	288.8
65°	282.3	267.7	263.3	265.4	288.5	285.0
67.5°	292.3	263.3	254.7	256.2	287.3	279.6
70°	301.6	256.2	244.1	242.6	276.1	262.5
72.5°	302.4	248.0	229.3	224.9	240.0	226.9
75°	287.6	242.3	213.0	199.9	198.1	196.4
77.5°	259.2	239.0	194.0	173.5	170.0	171.2
80°	216.9	226.9	171.2	146.9	166.2	164.1
82.5°	162.0	200.3	145.4	130.0	129.7	114.7
85°	90.1	156.1	118.4	97.4	67.8	65.7
87.5°	25.2	86.8	82.9	55.1	37.6	39.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)