

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: P270131

Luminaire Tested: **GWC-AF-02-LED-E1-T2R-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-T2R-7027-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8930.6 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

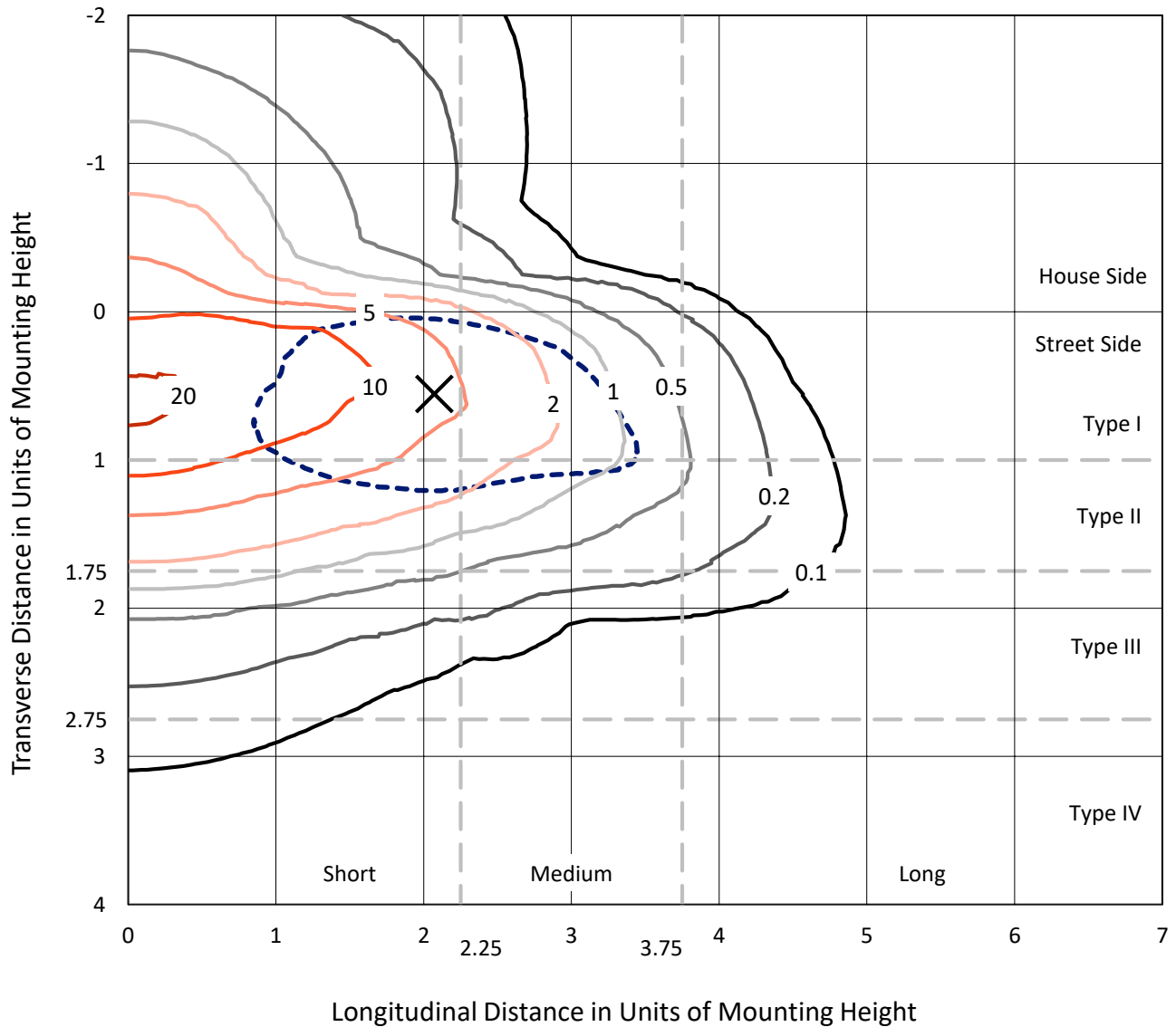
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

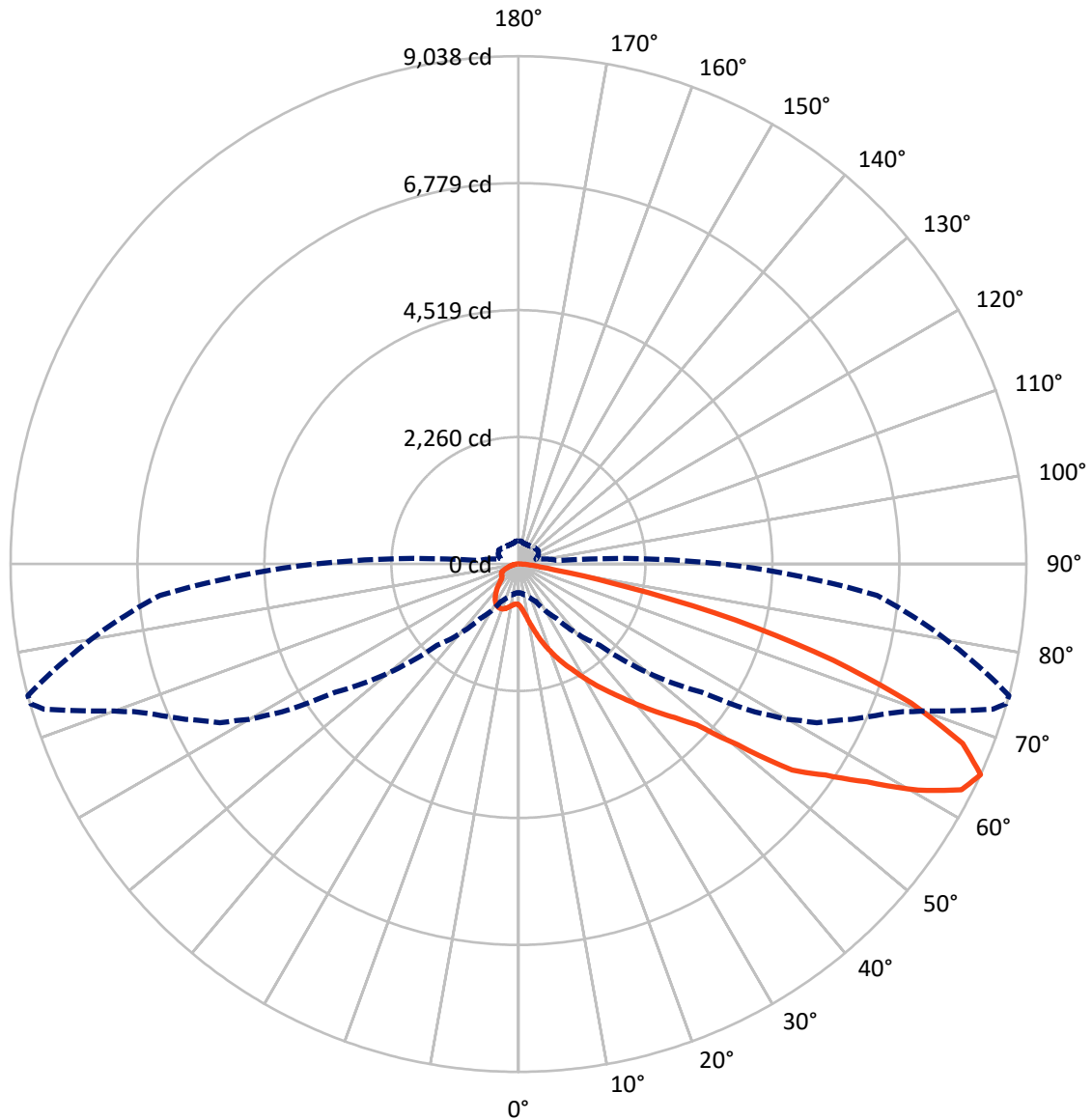
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.5 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	1376.9	0.0	1376.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	7553.7	0.0	7553.7
	% Fixture	84.6	0.0	84.6
Total	Lumens	8930.6	0.0	8930.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	1.0
10°-20°	350.5	3.9
20°-30°	719.1	8.1
30°-40°	1209.9	13.5
40°-50°	1671.8	18.7
50°-60°	2086.9	23.4
60°-70°	1878.0	21.0
70°-80°	787.2	8.8
80°-90°	137.5	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°	8930.6	100.0
0°-180°	8930.6	100.0

Coefficient of Utilization



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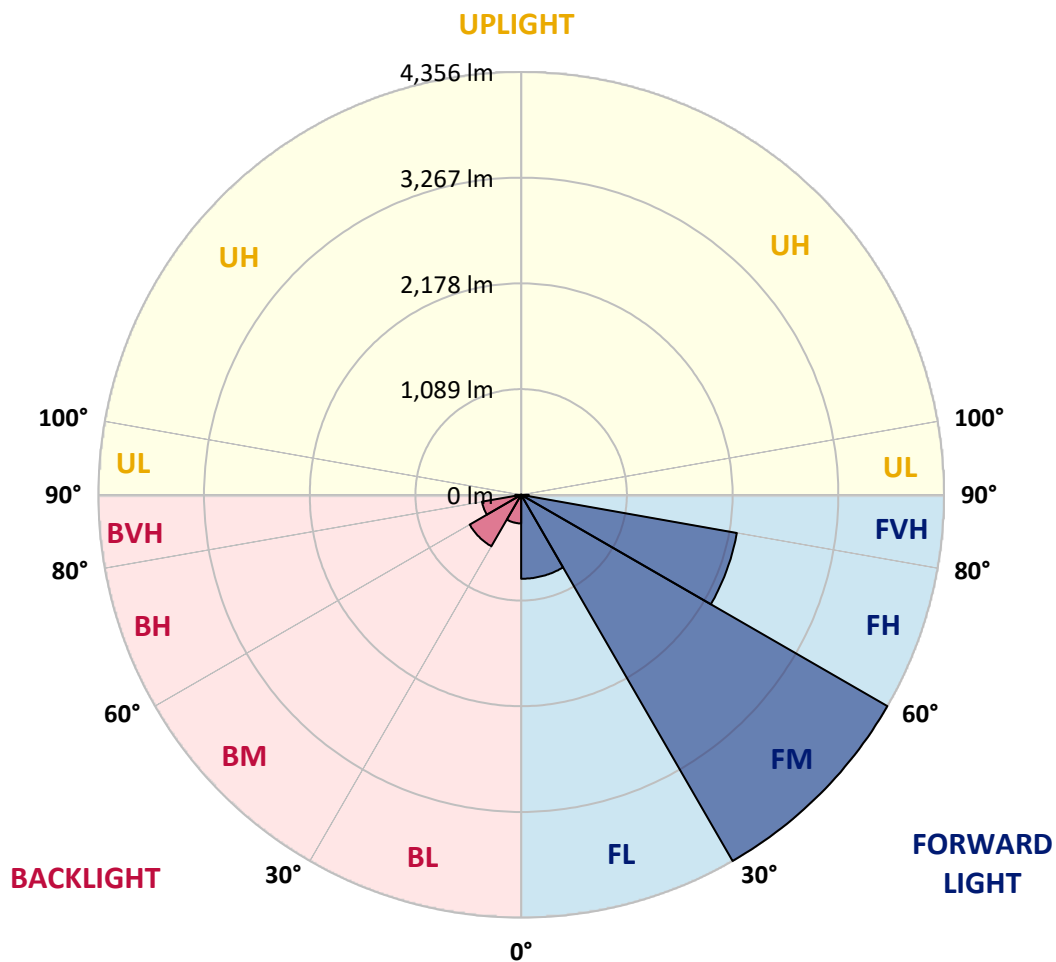
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	864.9	9.7			
FM	(30°-60°)	4355.7	48.8			
FH	(60°-80°)	2255.8	25.3			G2/5000
FVH	(80°-90°)	77.3	0.9			G1/100
BL	(0°-30°)	294.5	3.3	B1/500		
BM	(30°-60°)	612.9	6.9	B1/1000		
BH	(60°-80°)	409.3	4.6	B1/500		G1/500
BVH	(80°-90°)	60.2	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	725.7	725.7	725.7	725.7	725.7	725.7	725.7	725.7	725.7	725.7	725.7
2.5°	921.5	911.4	913.9	897.0	876.3	849.3	819.2	818.8	819.2	816.3	805.2
5°	1277.8	1265.6	1261.0	1222.9	1167.1	1087.6	1001.4	992.1	988.3	978.5	956.2
7.5°	1537.8	1531.0	1523.9	1495.1	1444.4	1355.6	1239.8	1220.0	1200.9	1196.2	1170.9
10°	1705.6	1703.9	1688.6	1681.1	1649.4	1572.5	1459.7	1440.6	1419.9	1412.7	1386.0
12.5°	1838.3	1837.9	1830.7	1832.8	1805.3	1749.5	1652.4	1635.0	1619.8	1597.8	1578.8
15°	1930.1	1930.5	1941.1	1952.8	1948.7	1911.1	1819.7	1812.2	1799.0	1783.8	1761.4
17.5°	2005.4	2007.4	2018.5	2040.0	2063.2	2060.3	1987.9	1981.6	1970.3	1949.5	1937.7
20°	2175.2	2183.2	2162.1	2162.1	2164.6	2176.1	2141.4	2136.3	2120.3	2109.2	2100.0
22.5°	2462.3	2471.5	2423.8	2375.1	2327.4	2292.7	2258.2	2264.4	2253.4	2245.9	2240.4
25°	2835.1	2842.2	2764.9	2683.0	2585.7	2458.9	2373.1	2369.3	2363.3	2358.7	2356.2
27.5°	3185.9	3188.9	3115.8	2995.8	2882.8	2700.7	2489.7	2485.1	2477.9	2469.1	2461.4
30°	3486.1	3485.2	3410.0	3295.4	3174.5	2972.9	2666.8	2652.4	2631.3	2607.2	2588.6
32.5°	3746.0	3744.8	3662.3	3543.5	3416.7	3242.5	2909.5	2879.9	2846.9	2800.0	2771.7
35°	3950.6	3949.8	3872.0	3748.2	3602.7	3496.6	3187.6	3151.3	3109.4	3046.4	3002.9
37.5°	4027.9	4027.9	3984.4	3899.9	3771.4	3698.7	3496.6	3452.6	3407.8	3336.4	3287.3
40°	3982.7	3983.5	3992.8	3977.2	3914.6	3858.9	3784.9	3758.7	3720.2	3656.0	3604.9
42.5°	3830.9	3835.7	3897.3	3973.0	4004.3	3995.4	4040.6	4028.8	4001.7	3952.3	3911.7
45°	3638.6	3653.0	3720.6	3863.5	4029.2	4113.3	4255.0	4256.3	4251.1	4224.5	4193.2
47.5°	3374.5	3394.7	3484.0	3677.1	3971.0	4227.9	4472.7	4484.1	4494.7	4477.2	4462.9
50°	3023.6	3047.7	3181.3	3437.5	3852.1	4346.6	4884.0	4935.5	4983.7	4977.8	4987.5
52.5°	2647.8	2676.1	2839.7	3125.0	3648.0	4374.1	5146.8	5231.0	5315.1	5383.9	5457.1
55°	2308.8	2293.6	2457.1	2757.7	3312.3	4250.3	5383.2	5484.6	5578.5	5663.0	5750.0
57.5°	1849.3	1874.3	2038.3	2335.4	2868.0	3900.7	5545.9	5694.3	5829.1	5969.1	6092.4
60°	1351.9	1376.7	1554.8	1856.5	2385.8	3370.7	5421.5	5646.5	5862.5	6076.8	6244.2
62.5°	816.3	834.9	991.6	1279.1	1839.5	2742.1	4867.8	5162.9	5480.8	5736.9	5993.5
65°	508.1	518.7	576.6	734.6	1181.5	2047.1	3977.2	4298.8	4641.3	4966.4	5233.1
67.5°	415.9	419.7	430.3	464.1	648.8	1334.9	2960.3	3245.0	3554.1	3868.6	4165.4
70°	374.1	371.5	371.5	373.7	415.9	717.7	1938.1	2123.6	2381.0	2654.6	2926.0
72.5°	337.7	335.2	330.6	324.2	339.5	437.9	1001.8	1141.7	1327.3	1570.4	1830.3
75°	303.5	300.1	294.6	286.6	297.2	330.6	481.0	539.8	630.3	759.6	904.5
77.5°	268.1	263.8	258.7	252.8	266.3	257.0	281.9	303.1	337.7	379.2	433.7
80°	227.8	224.0	222.3	219.4	235.4	195.7	199.1	212.2	232.6	254.9	280.3
82.5°	178.4	178.4	185.1	186.4	204.2	140.8	148.8	160.2	170.8	182.6	194.4
85°	117.5	118.4	141.1	150.0	161.1	94.7	111.7	115.4	123.9	130.6	135.6
87.5°	36.7	39.8	86.2	95.5	92.5	53.6	68.5	70.2	76.1	80.8	85.0
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	725.7	725.7	725.7	725.7	725.7	725.7	725.7	725.7	725.7	725.7	725.7
2.5°	805.2	800.1	795.5	795.1	791.8	787.1	788.8	781.6	782.0	778.2	774.0
5°	946.9	943.5	926.5	921.9	909.3	901.2	899.9	883.0	880.9	871.2	860.7
7.5°	1150.5	1139.6	1116.0	1104.6	1082.9	1066.9	1059.3	1036.9	1026.0	1000.5	989.1
10°	1364.1	1350.2	1321.0	1304.9	1284.2	1258.3	1244.4	1211.8	1199.2	1176.0	1148.0
12.5°	1561.9	1547.9	1517.9	1505.6	1478.3	1450.8	1435.5	1398.8	1382.2	1345.1	1323.1
15°	1745.0	1730.9	1704.8	1692.0	1664.6	1642.2	1621.9	1585.5	1566.1	1531.5	1502.8
17.5°	1922.5	1907.7	1884.8	1873.4	1846.8	1823.9	1801.9	1767.8	1747.9	1713.2	1687.4
20°	2087.4	2076.3	2059.8	2044.6	2018.0	1997.2	1971.1	1941.5	1912.7	1887.3	1862.8
22.5°	2231.0	2226.8	2209.0	2202.3	2179.5	2161.8	2138.9	2109.8	2089.0	2056.8	2034.1
25°	2354.9	2353.6	2345.1	2343.0	2327.1	2310.0	2305.1	2280.9	2261.9	2233.5	2209.9
27.5°	2461.4	2462.7	2460.5	2466.5	2462.3	2454.7	2455.1	2447.1	2436.0	2412.4	2391.6
30°	2579.8	2572.9	2576.8	2585.3	2587.8	2588.6	2602.6	2607.2	2606.4	2590.7	2580.6
32.5°	2747.1	2731.1	2716.3	2715.0	2723.5	2726.8	2750.6	2762.8	2773.3	2777.2	2778.8
35°	2960.6	2928.5	2897.7	2881.1	2866.8	2870.6	2887.5	2907.4	2930.6	2946.6	2965.7
37.5°	3229.4	3190.2	3135.6	3096.7	3087.0	3065.9	3076.9	3092.5	3115.3	3140.3	3173.3
40°	3555.4	3495.8	3434.5	3382.9	3355.0	3316.1	3315.7	3312.7	3326.7	3350.0	3396.5
42.5°	3869.0	3816.2	3751.1	3697.0	3660.6	3608.6	3598.1	3570.6	3576.9	3597.3	3642.4
45°	4162.8	4119.2	4079.6	4017.0	3986.0	3929.9	3912.1	3879.5	3861.5	3870.7	3915.9
47.5°	4447.2	4419.4	4378.0	4337.4	4313.8	4263.4	4240.6	4217.4	4194.1	4193.2	4240.6
50°	5001.9	4987.1	4938.0	4895.8	4907.2	4845.5	4849.2	4786.7	4815.1	4818.4	4917.7
52.5°	5523.0	5574.6	5611.0	5655.4	5684.1	5689.6	5708.6	5736.9	5771.3	5838.9	5931.0
55°	5821.5	5886.1	5923.8	5957.6	6013.4	6025.3	6056.9	6094.6	6124.6	6200.6	6278.8
57.5°	6176.2	6296.2	6354.5	6408.2	6483.5	6512.3	6565.0	6606.0	6644.9	6735.0	6829.6
60°	6394.7	6540.9	6659.8	6744.7	6838.9	6906.5	6986.5	7050.7	7142.0	7249.8	7391.0
62.5°	6220.9	6435.7	6593.4	6739.2	6867.3	6996.5	7111.1	7231.3	7369.9	7533.0	7751.9
65°	5529.0	5747.5	6017.7	6168.9	6338.4	6538.0	6712.1	6906.5	7095.4	7333.1	7656.8
67.5°	4451.1	4705.1	5008.6	5161.2	5356.1	5578.8	5774.1	6011.6	6232.4	6520.3	6920.5
70°	3208.3	3536.7	3792.0	3951.5	4178.8	4408.3	4596.9	4873.3	5056.0	5351.0	5764.9
72.5°	2031.5	2290.7	2603.5	2804.2	3006.3	3238.8	3431.4	3669.8	3840.3	4109.1	4484.1
75°	1092.3	1283.3	1558.1	1748.7	1965.2	2163.8	2389.6	2549.3	2675.3	2887.9	3192.3
77.5°	511.9	628.1	767.2	913.9	1060.5	1213.6	1362.4	1491.7	1545.9	1667.5	1847.2
80°	310.7	348.3	389.0	434.1	495.4	544.8	610.4	657.7	661.2	699.6	754.5
82.5°	207.5	221.5	233.7	245.1	260.8	273.1	287.0	303.5	310.3	319.2	337.0
85°	141.7	148.4	150.9	158.1	156.4	160.6	166.2	171.7	174.5	174.2	182.2
87.5°	87.0	90.5	92.2	93.9	92.5	90.9	93.4	96.4	97.3	94.7	95.5
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	725.7	725.7	725.7	725.7	725.7	725.7	725.7	725.7	725.7	725.7	725.7
2.5°	774.8	771.0	767.2	764.6	763.8	741.4	731.8	725.4	711.9	700.9	692.0
5°	854.6	846.7	840.4	832.7	828.5	771.9	751.2	736.8	713.1	699.2	686.5
7.5°	983.2	960.8	947.7	932.9	920.3	817.9	783.7	761.2	728.3	709.8	695.4
10°	1129.1	1105.8	1085.1	1062.3	1042.4	879.3	829.4	794.6	751.2	727.0	708.0
12.5°	1291.9	1268.9	1242.7	1213.6	1188.2	957.1	887.6	838.3	778.7	746.5	719.9
15°	1484.1	1444.0	1412.2	1378.4	1348.9	1050.0	955.8	887.3	807.8	764.3	728.7
17.5°	1662.9	1620.6	1577.5	1547.9	1513.7	1154.4	1024.2	937.1	831.9	775.6	730.4
20°	1837.5	1791.4	1754.2	1714.5	1678.6	1262.6	1097.3	981.0	847.6	776.1	719.9
22.5°	1991.4	1962.6	1921.2	1878.1	1841.7	1370.8	1165.8	1018.3	853.4	766.3	701.2
25°	2166.4	2135.9	2085.2	2048.9	2008.3	1481.1	1233.1	1047.1	850.1	748.1	672.5
27.5°	2353.2	2319.4	2267.4	2229.4	2180.3	1595.7	1294.7	1067.8	837.4	718.6	634.1
30°	2548.0	2517.2	2466.0	2427.6	2378.2	1717.0	1363.6	1081.6	812.0	677.6	589.2
32.5°	2757.3	2731.5	2680.8	2640.6	2587.8	1848.4	1427.9	1086.0	773.5	629.0	541.9
35°	2956.0	2938.3	2895.5	2857.9	2803.0	1972.8	1496.0	1083.8	727.9	575.7	498.8
37.5°	3179.6	3169.0	3147.9	3100.1	3032.9	2141.4	1577.5	1074.9	672.1	522.8	465.9
40°	3418.0	3418.9	3396.0	3363.4	3300.9	2346.0	1674.8	1057.6	611.2	476.4	435.9
42.5°	3670.4	3683.5	3672.5	3649.3	3589.3	2552.3	1791.0	1036.5	552.1	431.2	406.2
45°	3959.5	3975.5	3992.4	3958.2	3899.9	2824.5	1943.9	1009.1	488.2	393.5	385.9
47.5°	4293.0	4318.3	4333.6	4334.0	4275.7	3161.8	2192.6	992.5	431.5	368.2	376.2
50°	4996.7	5004.8	5040.7	5103.3	5058.5	3942.6	2626.7	982.4	393.1	352.6	369.0
52.5°	6010.9	6099.2	6161.3	6157.1	6096.3	4438.3	2866.0	929.9	370.3	346.6	365.7
55°	6423.9	6534.1	6649.2	6679.5	6632.3	4861.5	3092.1	877.6	359.3	350.8	367.0
57.5°	6974.2	7160.2	7317.9	7384.2	7315.8	5403.0	3389.7	850.1	355.9	362.3	375.0
60°	7617.2	7847.1	8054.2	8173.4	8173.4	6025.3	3698.2	838.7	351.3	379.2	388.4
62.5°	8030.1	8367.8	8680.6	8855.2	8850.2	6458.5	3835.1	799.8	340.7	390.9	407.1
65°	8031.7	8433.4	8832.0	9028.1	9038.3	6405.2	3609.0	706.3	321.3	392.6	425.7
67.5°	7362.2	7790.5	8255.1	8474.3	8525.1	5896.3	3124.2	580.8	289.5	375.9	432.4
70°	6218.0	6636.0	7110.4	7325.9	7415.9	5026.4	2516.3	447.7	248.9	338.6	418.4
72.5°	4898.7	5308.8	5638.8	5796.5	5866.7	3842.0	1832.5	338.2	204.2	285.3	380.8
75°	3468.4	3776.0	3951.5	3986.6	3997.5	2316.0	1113.4	251.5	168.3	221.9	321.7
77.5°	1957.6	2089.5	2075.1	2090.7	1960.5	894.0	484.8	180.0	138.6	168.6	249.4
80°	764.3	787.9	740.1	725.4	665.4	332.6	213.9	125.5	110.8	127.6	174.5
82.5°	337.0	347.9	337.7	340.3	325.5	171.7	128.0	90.9	84.5	93.4	115.8
85°	185.5	188.9	188.1	193.7	185.5	68.5	60.9	55.8	59.1	63.4	74.4
87.5°	90.5	91.3	88.4	93.0	90.0	34.7	30.0	31.7	34.7	35.5	35.5
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):

	135°	145°	155°	165°	175°	180°
0°	725.7	725.7	725.7	725.7	725.7	725.7
2.5°	685.6	682.3	682.6	681.8	680.1	680.1
5°	679.7	676.3	676.3	675.5	673.4	673.7
7.5°	685.6	680.1	678.0	675.1	672.1	672.1
10°	692.4	682.6	676.8	671.7	667.9	667.9
12.5°	697.4	682.3	672.5	665.7	662.0	662.0
15°	699.2	679.2	665.7	657.7	654.3	653.9
17.5°	693.7	667.9	651.4	642.1	637.9	636.6
20°	676.8	647.1	627.3	616.7	610.8	608.7
22.5°	651.4	617.6	594.3	583.4	575.7	574.5
25°	615.9	579.5	556.7	546.1	541.9	540.6
27.5°	574.5	540.6	521.2	514.5	510.6	510.2
30°	535.1	506.5	492.1	487.0	482.3	481.5
32.5°	498.4	480.2	474.7	467.5	456.6	455.2
35°	472.2	470.4	466.7	450.6	437.1	433.3
37.5°	456.1	471.7	452.3	420.6	410.8	410.1
40°	446.8	458.6	425.2	414.2	415.1	414.2
42.5°	425.7	437.9	426.1	421.0	424.4	425.2
45°	404.6	418.1	432.4	429.0	437.1	437.1
47.5°	392.6	413.0	432.0	432.0	443.9	448.1
50°	379.2	408.7	425.2	431.2	440.4	437.1
52.5°	378.3	401.5	415.6	426.1	430.3	426.4
55°	379.5	395.7	405.9	417.6	422.7	423.1
57.5°	381.3	392.3	399.0	404.6	419.7	419.7
60°	385.6	389.3	393.1	396.1	415.9	416.4
62.5°	392.3	386.4	385.6	388.4	413.8	412.1
65°	402.8	382.0	375.9	378.7	411.7	406.7
67.5°	417.2	375.9	363.5	365.7	410.1	399.0
70°	430.3	365.7	348.3	346.2	393.9	374.6
72.5°	431.5	353.8	327.2	320.8	342.4	323.8
75°	410.4	345.8	303.9	285.3	282.8	280.3
77.5°	369.8	341.2	276.9	247.7	242.6	244.3
80°	309.5	323.8	244.3	209.7	237.2	234.2
82.5°	231.1	285.8	207.5	185.5	185.1	163.6
85°	128.5	222.8	169.1	139.1	96.7	93.9
87.5°	35.9	123.9	118.4	78.6	53.6	55.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)