

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: P192147

Luminaire Tested: **GLEON-AF-09-LED-E1-SLR-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192147
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-SLR-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51301 lumens
Efficiency: N/A
Efficacy: 89.2 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

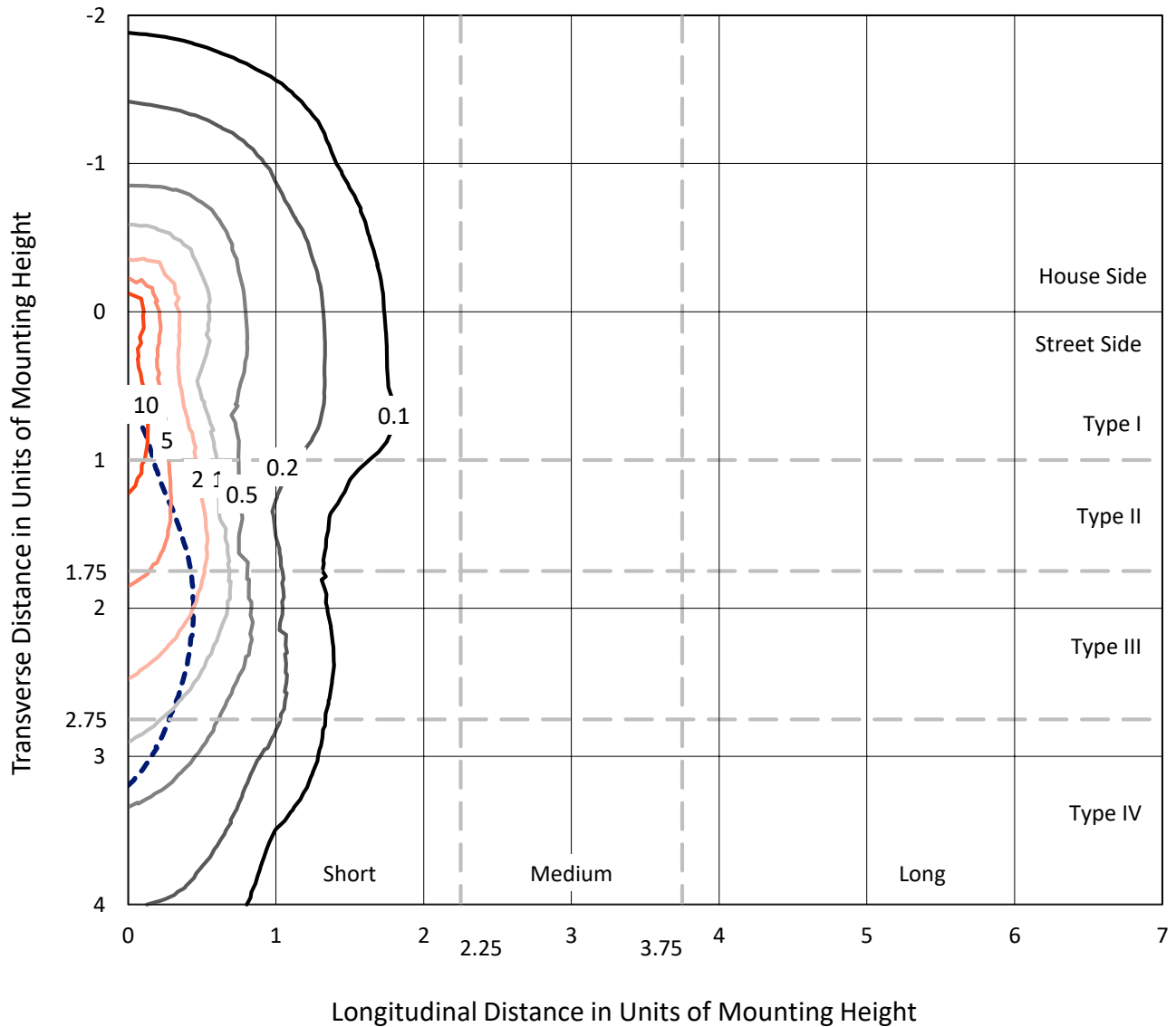


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

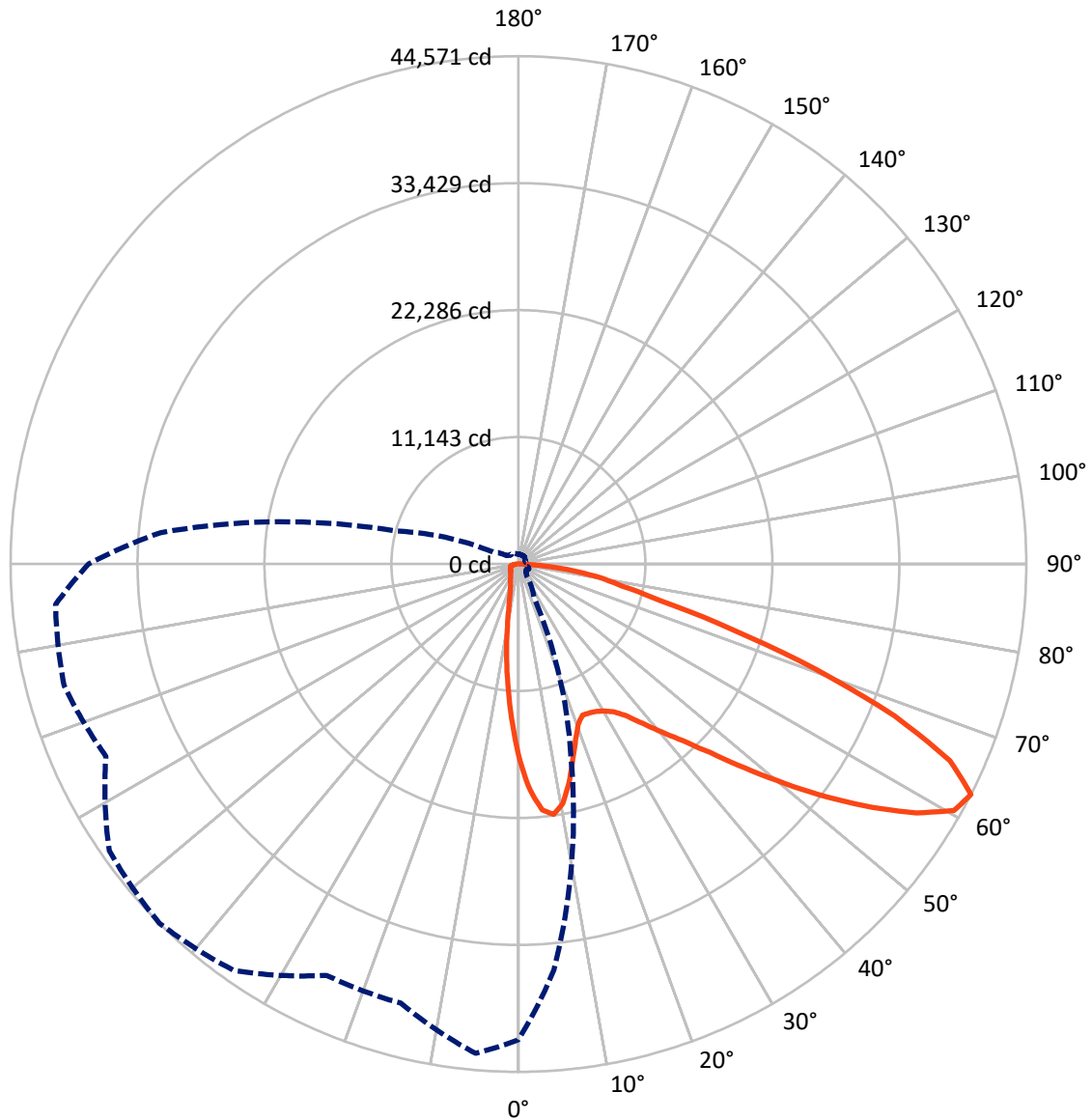


Based on 30 foot mounting height. Maximum calculated value = 19.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8489.6	0.0	8489.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	42811.4	0.0	42811.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	51301.0	0.0	51301.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1261.7	2.5
10°-20°	2313.6	4.5
20°-30°	3373.3	6.6
30°-40°	5195.3	10.1
40°-50°	7646.2	14.9
50°-60°	11215.3	21.9
60°-70°	12537.1	24.4
70°-80°	6138.0	12.0
80°-90°	1620.6	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°	51301.0	100.0
0°-180°	51301.0	100.0

Coefficient of Utilization



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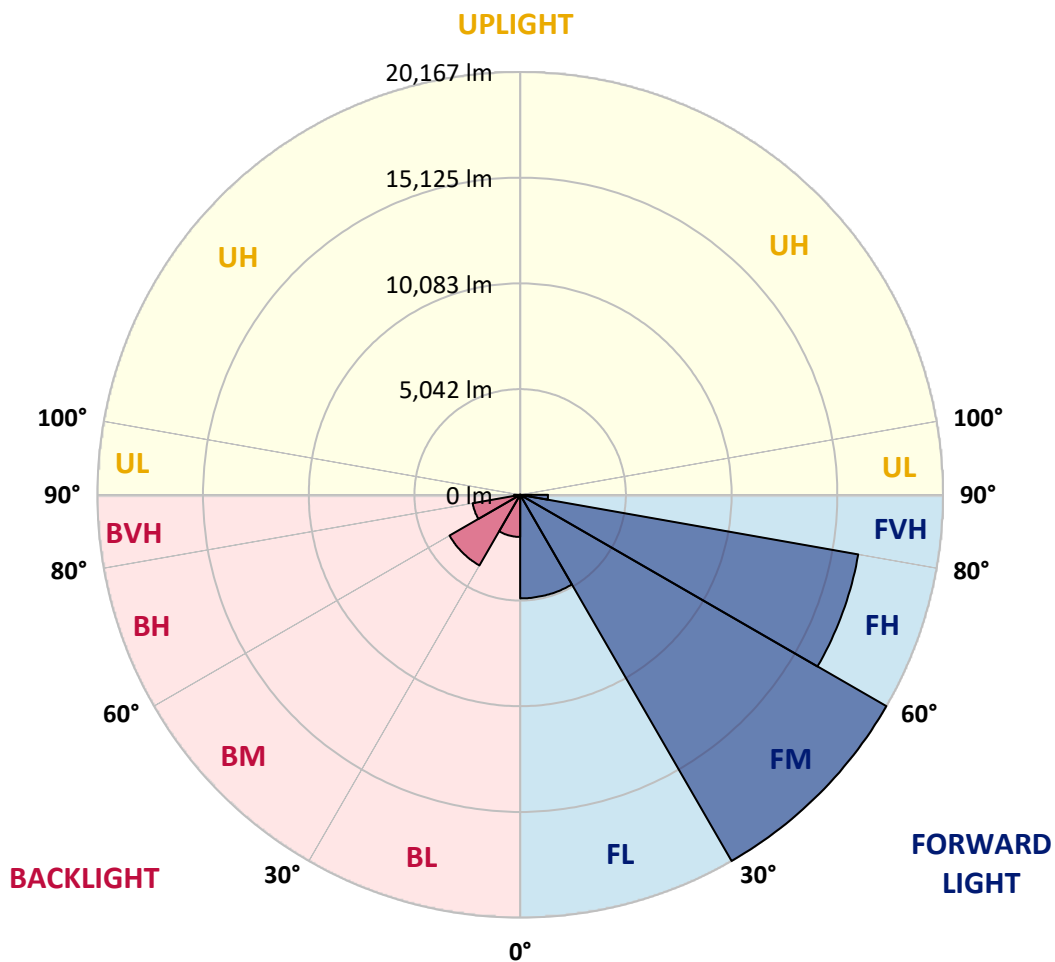
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4940.1	9.6			
FM	(30°-60°)	20166.9	39.3			
FH	(60°-80°)	16373.5	31.9			G5
FVH	(80°-90°)	1330.9	2.6			G5
BL	(0°-30°)	2008.5	3.9	B3/2500		
BM	(30°-60°)	3889.9	7.6	B3/5000		
BH	(60°-80°)	2301.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	289.7	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°	17332.2	17332.2	17332.2	17332.2	17332.2	17332.2	17332.2	17332.2	17332.2	17332.2	17332.2
2.5°	18009.1	17642.5	17033.3	16398.8	16012.4	15561.2	15208.7	14898.5	14278.1	14156.8	14266.8
5°	16934.6	16198.6	15050.8	13894.6	13124.7	12298.4	11655.4	11139.3	10352.5	10214.3	10380.7
7.5°	15211.5	14331.7	12814.5	11339.6	10251.0	9218.9	8525.1	7972.4	7357.6	7092.5	7109.4
10°	13725.4	12732.7	10939.1	9334.5	8443.3	7746.8	7163.0	6596.2	5972.9	5564.0	5451.2
12.5°	12893.4	11751.3	9684.2	8251.6	7425.3	6692.1	6063.2	5456.9	4791.3	4374.0	4255.5
15°	12749.6	11508.8	9213.2	7557.8	6522.9	5595.0	4853.4	4176.5	3491.3	3152.9	3082.4
17.5°	13372.8	11943.1	9060.9	6940.2	5674.0	4529.1	3618.2	2862.4	2304.0	2134.8	2120.7
20°	14568.6	12777.8	9041.2	6359.3	4836.4	3494.1	2521.2	1971.2	1725.9	1678.0	1680.8
22.5°	16246.5	14072.2	9283.7	5922.2	4066.6	2605.8	1895.1	1649.7	1553.9	1508.7	1508.7
25°	18418.0	15854.5	9842.1	5603.5	3398.2	2081.2	1672.3	1525.7	1435.4	1404.4	1410.0
27.5°	20521.8	17588.9	10490.7	5352.5	2961.1	1889.5	1584.9	1452.3	1373.4	1342.4	1356.5
30°	22163.0	19128.6	11032.2	5011.3	2738.3	1835.9	1615.9	1480.5	1367.7	1319.8	1322.6
32.5°	23522.3	20476.6	11486.2	4765.9	2540.9	1573.6	1393.1	1333.9	1319.8	1263.4	1235.2
35°	25259.5	21945.9	11790.8	4771.6	2447.8	1404.4	1240.8	1136.5	1060.4	995.5	995.5
37.5°	27295.6	23632.3	12115.1	4836.4	2414.0	1305.7	1187.3	1082.9	1012.4	950.4	939.1
40°	29309.1	25284.9	12411.2	4898.5	2394.3	1246.5	1145.0	1049.1	984.2	922.2	905.2
42.5°	31020.9	26644.2	12676.3	4929.5	2326.6	1240.8	1113.9	1026.5	964.5	896.8	879.9
45°	32287.2	27783.5	12961.1	4977.4	2258.9	1263.4	1113.9	1023.7	947.5	882.7	865.8
47.5°	33418.0	29120.2	13437.7	4977.4	2177.1	1221.1	1150.6	1026.5	944.7	877.0	862.9
50°	34932.4	30953.3	14340.1	4861.8	2061.5	1176.0	1212.6	1015.2	919.3	865.8	848.8
52.5°	37019.3	33302.4	15772.7	4661.6	1883.8	1088.6	1204.2	1009.6	894.0	837.6	817.8
55°	39486.8	35817.9	17335.1	4427.5	1618.7	1026.5	1161.9	995.5	865.8	803.7	784.0
57.5°	41412.9	37549.4	18434.9	4066.6	1387.5	992.7	1029.3	981.4	831.9	767.1	750.1
60°	42180.0	37481.7	18736.6	3584.3	1274.7	964.5	899.6	1099.8	803.7	738.9	719.1
62.5°	41765.5	35750.2	17890.6	3245.9	1249.3	927.8	843.2	1018.1	781.2	719.1	690.9
65°	39850.6	32682.0	15648.7	3155.7	1322.6	891.1	806.5	798.1	750.1	690.9	662.7
67.5°	35679.7	28096.5	12529.6	3164.1	1415.7	854.5	769.9	730.4	707.8	659.9	634.5
70°	29061.0	22213.8	9340.1	3186.7	1463.6	812.2	730.4	688.1	662.7	614.8	597.9
72.5°	21367.8	17120.7	6785.1	3040.1	1472.1	764.2	676.8	640.2	614.8	564.0	549.9
75°	14619.3	13096.5	4706.7	2518.3	1283.1	696.6	617.6	583.8	566.8	504.8	496.3
77.5°	10679.7	9830.8	3011.9	1869.7	989.8	612.0	544.3	518.9	507.6	439.9	428.7
80°	8570.2	7777.8	1883.8	1280.3	724.8	513.3	456.9	442.8	431.5	363.8	355.3
82.5°	5944.7	5208.7	1209.8	831.9	544.3	397.6	361.0	355.3	338.4	276.4	267.9
85°	3135.9	2828.5	767.1	566.8	394.8	273.5	251.0	251.0	242.5	183.3	177.7
87.5°	400.5	651.4	389.2	296.1	217.1	121.3	121.3	118.4	126.9	104.3	90.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	17332.2	17332.2	17332.2	17332.2	17332.2	17332.2	17332.2	17332.2	17332.2	17332.2	17332.2
2.5°	14007.4	14142.7	14013.0	14021.5	14165.3	14593.9	14788.5	14949.3	15121.3	15234.1	15284.9
5°	10152.3	10468.2	10575.3	10800.9	11133.7	11680.8	11897.9	12055.9	12160.2	12222.2	12247.6
7.5°	6943.0	7134.8	7349.1	7712.9	8437.7	8759.2	8903.0	8866.3	8747.9	8705.6	8663.3
10°	5234.1	5157.9	5118.5	5318.7	5905.3	6229.6	6331.1	6232.4	6167.5	6181.6	6252.1
12.5°	4055.3	3922.7	3762.0	3739.4	4125.8	4416.3	4481.1	4486.8	4605.2	4709.5	4864.6
15°	2955.4	2941.3	2862.4	2814.4	3034.4	3271.3	3299.5	3350.3	3457.4	3533.6	3668.9
17.5°	2084.0	2160.2	2222.2	2253.2	2419.6	2588.8	2557.8	2532.4	2512.7	2512.7	2577.6
20°	1680.8	1731.5	1810.5	1900.7	2069.9	2188.4	2112.2	2010.7	1937.4	1914.8	1923.3
22.5°	1514.4	1553.9	1599.0	1678.0	1830.2	1912.0	1830.2	1756.9	1683.6	1658.2	1649.7
25°	1429.8	1480.5	1522.8	1582.1	1694.9	1751.3	1672.3	1618.7	1573.6	1542.6	1520.0
27.5°	1381.8	1427.0	1438.2	1466.4	1562.3	1613.1	1573.6	1551.0	1522.8	1494.6	1466.4
30°	1331.1	1322.6	1302.9	1305.7	1381.8	1432.6	1429.8	1435.4	1432.6	1424.1	1418.5
32.5°	1215.5	1198.5	1181.6	1198.5	1269.0	1314.2	1317.0	1328.3	1328.3	1325.4	1348.0
35°	1012.4	1043.4	1063.2	1113.9	1198.5	1238.0	1221.1	1192.9	1142.1	1111.1	1108.3
37.5°	936.3	941.9	975.7	1046.3	1139.3	1176.0	1150.6	1085.7	1051.9	1046.3	1054.7
40°	899.6	905.2	925.0	989.8	1082.9	1119.6	1097.0	1049.1	1018.1	1015.2	1029.3
42.5°	874.2	879.9	891.1	936.3	1012.4	1057.5	1060.4	1026.5	989.8	992.7	1006.8
45°	860.1	862.9	860.1	882.7	953.2	1006.8	1029.3	1006.8	975.7	981.4	998.3
47.5°	857.3	848.8	837.6	843.2	916.5	970.1	998.3	989.8	975.7	981.4	995.5
50°	846.0	826.3	812.2	809.4	882.7	939.1	964.5	964.5	970.1	981.4	995.5
52.5°	812.2	789.6	789.6	781.2	860.1	913.7	930.6	933.4	941.9	961.6	981.4
55°	769.9	761.4	769.9	755.8	843.2	894.0	902.4	908.1	913.7	930.6	958.8
57.5°	733.2	721.9	741.7	736.0	829.1	874.2	874.2	885.5	885.5	908.1	930.6
60°	713.5	690.9	699.4	705.0	809.4	857.3	851.7	862.9	868.6	888.3	905.2
62.5°	688.1	668.4	668.4	682.5	786.8	831.9	829.1	837.6	860.1	865.8	882.7
65°	657.1	648.6	640.2	657.1	764.2	803.7	806.5	817.8	837.6	843.2	857.3
67.5°	626.1	628.9	612.0	628.9	744.5	775.5	775.5	798.1	806.5	817.8	831.9
70°	592.2	595.0	580.9	600.7	730.4	744.5	741.7	772.7	778.3	786.8	800.9
72.5°	549.9	549.9	544.3	572.5	707.8	713.5	707.8	733.2	736.0	744.5	750.1
75°	504.8	504.8	499.2	538.6	693.7	679.6	662.7	682.5	688.1	693.7	693.7
77.5°	445.6	451.2	451.2	499.2	645.8	665.5	609.1	620.4	628.9	631.7	623.2
80°	372.3	386.4	392.0	454.0	541.5	614.8	544.3	552.7	555.6	555.6	544.3
82.5°	284.8	310.2	324.3	392.0	414.6	516.1	473.8	482.2	473.8	456.9	451.2
85°	197.4	231.2	248.2	298.9	313.0	397.6	394.8	394.8	377.9	355.3	352.5
87.5°	107.2	126.9	138.2	177.7	214.3	267.9	290.5	282.0	267.9	253.8	256.6
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	17332.2	17332.2	17332.2	17332.2	17332.2	17332.2	17332.2	17332.2	17332.2	17332.2	17332.2
2.5°	15549.9	15933.5	16545.4	17013.6	17484.5	17938.6	18429.3	18804.3	19123.0	19247.1	19625.0
5°	12504.3	12983.7	13561.8	14605.2	15344.1	16159.1	17101.0	18347.5	18826.9	19489.6	20575.3
7.5°	8841.0	9275.3	10205.9	11049.1	12095.3	13248.8	14520.6	16240.9	16869.7	17932.9	19701.1
10°	6601.8	7106.6	7853.9	8564.6	9486.8	10665.6	12126.4	14049.7	14813.9	15967.3	18003.4
12.5°	5318.7	5913.7	6706.2	7374.5	8088.0	8919.9	10338.4	12447.9	13471.5	14481.1	16539.8
15°	4086.3	4709.5	5445.6	6294.4	7081.2	7978.0	9464.2	11771.0	12949.8	14001.7	15758.6
17.5°	2828.5	3361.5	4289.3	5174.9	6181.6	7329.4	9221.7	11914.9	13322.1	14534.7	15894.0
20°	2005.1	2309.6	3071.1	4097.6	5352.5	6793.6	9176.6	12670.6	14500.9	15885.5	16762.6
22.5°	1686.4	1799.2	2242.0	3183.9	4633.4	6393.1	9334.5	13731.0	16091.4	17859.6	18147.2
25°	1536.9	1604.6	1835.9	2498.6	3993.2	6102.7	9867.5	15310.2	18059.8	19833.7	19782.9
27.5°	1455.2	1525.7	1678.0	2109.4	3511.0	5922.2	10400.5	17182.8	20310.3	21976.9	21345.2
30°	1429.8	1525.7	1686.4	1988.2	3167.0	5637.3	10837.6	18826.9	22041.8	23423.6	22055.9
32.5°	1410.0	1424.1	1497.5	1714.6	2839.8	5304.6	11133.7	20301.8	23736.7	24799.8	23079.6
35°	1139.3	1209.8	1328.3	1536.9	2648.1	5104.4	11133.7	21573.6	25406.1	26190.1	24055.3
37.5°	1097.0	1159.1	1263.4	1441.1	2540.9	5005.7	10910.9	22800.4	27112.3	27766.6	24859.0
40°	1074.5	1125.2	1223.9	1367.7	2495.8	4892.8	10586.6	23883.3	28779.0	29345.8	25609.2
42.5°	1057.5	1102.7	1195.7	1322.6	2436.6	4768.8	10324.3	24751.9	30225.7	30693.8	26325.5
45°	1049.1	1097.0	1198.5	1345.2	2318.1	4605.2	10236.9	25691.0	31415.7	31819.0	27101.0
47.5°	1049.1	1105.5	1212.6	1393.1	2177.1	4436.0	10510.5	26929.0	32541.0	32738.4	28014.7
50°	1040.6	1102.7	1252.1	1345.2	1971.2	4221.7	11153.4	28488.5	33759.2	33781.8	29171.0
52.5°	1023.7	1097.0	1348.0	1317.0	1734.4	3939.7	12022.0	30490.8	35561.3	35696.6	30981.5
55°	1004.0	1088.6	1322.6	1252.1	1539.8	3604.1	12732.7	32924.5	38093.7	38468.8	33643.6
57.5°	978.6	1077.3	1280.3	1161.9	1412.9	3172.6	12989.3	34706.8	39861.9	40803.8	36644.2
60°	956.0	1068.8	1156.2	1108.3	1333.9	2808.8	12493.0	34354.3	39740.6	41771.1	39303.5
62.5°	933.4	1077.3	1054.7	1074.5	1297.2	2574.7	11195.7	31531.4	37729.9	40772.8	41274.8
65°	908.1	1001.1	995.5	1046.3	1288.8	2481.7	9280.9	27298.4	33843.8	37617.1	41740.1
67.5°	874.2	925.0	953.2	1009.6	1317.0	2399.9	7490.1	22518.4	28443.4	32887.8	39314.8
70°	837.6	879.9	910.9	964.5	1300.1	2363.2	6229.6	17758.1	22569.1	26954.4	34529.1
72.5°	789.6	826.3	854.5	905.2	1283.1	2343.5	5262.3	14300.7	16850.0	20022.6	28073.9
75°	733.2	767.1	786.8	837.6	1229.6	2146.1	4137.1	12101.0	12608.6	13928.4	22360.5
77.5°	668.4	693.7	710.7	767.1	1088.6	1785.1	2992.1	9334.5	9791.3	10112.8	17143.3
80°	592.2	617.6	626.1	679.6	902.4	1395.9	1951.5	6895.1	7323.8	7397.1	11195.7
82.5°	504.8	530.2	530.2	580.9	738.9	1004.0	1280.3	4723.6	4808.2	5056.4	7913.2
85°	406.1	425.8	425.8	451.2	572.5	750.1	879.9	2371.7	2346.3	2679.1	6855.6
87.5°	290.5	304.6	318.7	324.3	408.9	496.3	530.2	721.9	476.6	547.1	4402.2
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	17332.2	17332.2	17332.2	17332.2	17332.2	17332.2	17332.2	17332.2
2.5°	19909.8	20070.5	19907.0	19788.5	19278.1	18857.9	18296.7	18009.1
5°	21401.6	21810.5	21672.4	21176.0	20110.0	18911.5	17549.4	16934.6
7.5°	21221.1	22171.5	22194.1	21266.3	19695.5	17930.1	16085.8	15211.5
10°	19816.7	21032.2	21379.1	20479.5	18812.8	16838.7	14723.7	13725.4
12.5°	18248.8	19438.8	19703.9	19393.7	18000.6	16018.1	13872.0	12893.4
15°	16965.6	17498.6	17814.5	18085.2	17304.0	15691.0	13824.1	12749.6
17.5°	16184.5	16125.2	16215.5	16686.4	16819.0	16066.0	14557.3	13372.8
20°	15902.5	14997.2	14974.7	15623.3	16590.6	16960.0	15989.9	14568.6
22.5°	16057.6	14591.1	14405.0	15174.9	16711.8	18248.8	17868.1	16246.5
25°	16593.4	14625.0	14475.5	15220.0	17151.8	19622.2	19895.7	18418.0
27.5°	17436.6	14839.3	14641.9	15406.1	17735.5	20775.6	21892.3	20521.8
30°	18237.5	15211.5	14966.2	15772.7	18268.5	21232.4	23116.2	22163.0
32.5°	19210.4	15908.1	15476.6	16446.7	18928.4	21960.0	24207.6	23522.3
35°	20163.6	16900.8	16365.0	17487.3	19664.5	22865.2	25454.1	25259.5
37.5°	21209.9	18198.0	17755.3	18832.5	20671.2	23719.7	27044.6	27295.6
40°	22326.6	19918.3	19393.7	20795.3	22233.5	24791.4	28705.6	29309.1
42.5°	23451.8	21827.5	21201.4	22622.7	23951.0	25848.9	30127.0	31020.9
45°	24740.6	23900.2	23604.1	25141.1	25600.7	26855.7	31176.0	32287.2
47.5°	26240.9	26252.2	26728.8	27343.5	27264.6	27995.0	32230.7	33418.0
50°	27992.2	29187.9	30239.8	30648.7	28979.2	29218.9	33694.4	34932.4
52.5°	30095.9	32698.9	34001.8	33733.9	30826.3	30713.5	36012.5	37019.3
55°	32727.1	36415.8	37710.2	37518.4	32949.9	32749.6	38900.2	39486.8
57.5°	35772.8	40017.0	41207.1	40344.1	35499.2	34983.2	41288.9	41412.9
60°	38449.0	42870.9	43914.4	42958.4	38071.1	37360.5	42780.7	42180.0
62.5°	39938.0	43838.2	44571.4	43542.1	39833.7	39892.9	43107.8	41765.5
65°	39272.5	41393.2	41630.1	41545.5	39379.7	41362.2	41931.8	39850.6
67.5°	35629.0	35211.6	35609.2	36159.1	35487.9	39427.6	38674.6	35679.7
70°	29210.4	26917.7	27710.2	28079.6	28384.2	33928.4	33567.5	29061.0
72.5°	22013.6	18857.9	19484.0	19407.8	20817.9	27213.8	26105.5	21367.8
75°	15597.9	12786.3	12865.2	12834.2	14526.3	21291.6	18903.0	14619.3
77.5°	10913.7	9264.0	9306.3	9481.1	9766.0	16057.6	13505.4	10679.7
80°	7504.2	7030.5	7264.5	7278.6	6768.2	10786.8	9977.5	8570.2
82.5°	5589.4	4887.2	4830.8	4912.6	5304.6	8739.4	7667.8	5944.7
85°	4577.0	2893.4	2326.6	2916.0	4701.1	8654.8	5093.1	3135.9
87.5°	2577.6	1373.4	620.4	1150.6	1875.4	5730.4	1472.1	400.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)