

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: P192211

Luminaire Tested: **GLEON-AF-03-LED-E1-T2R-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192211
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: GLEON-AF-03-LED-E1-T2R-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18932 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

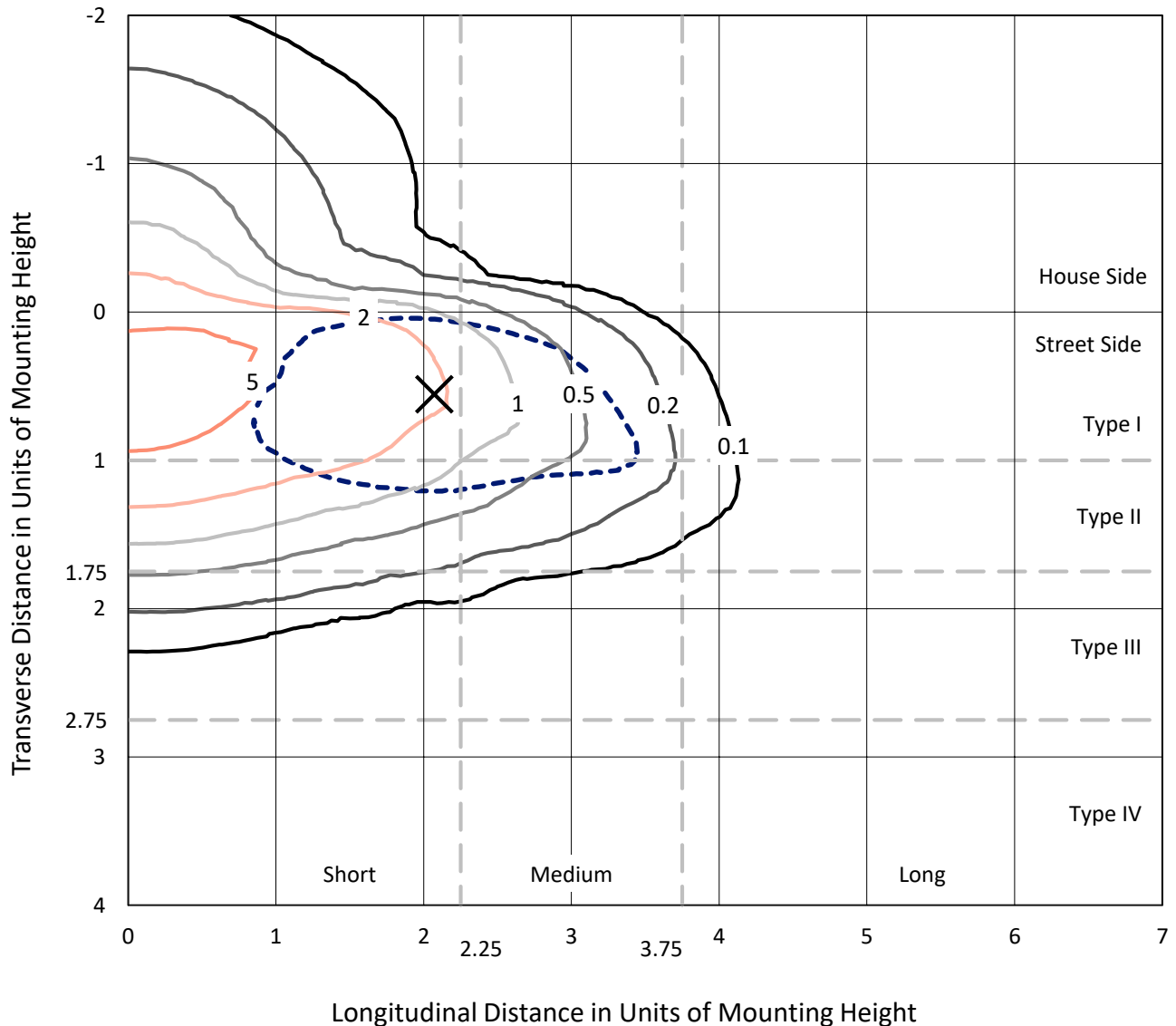
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

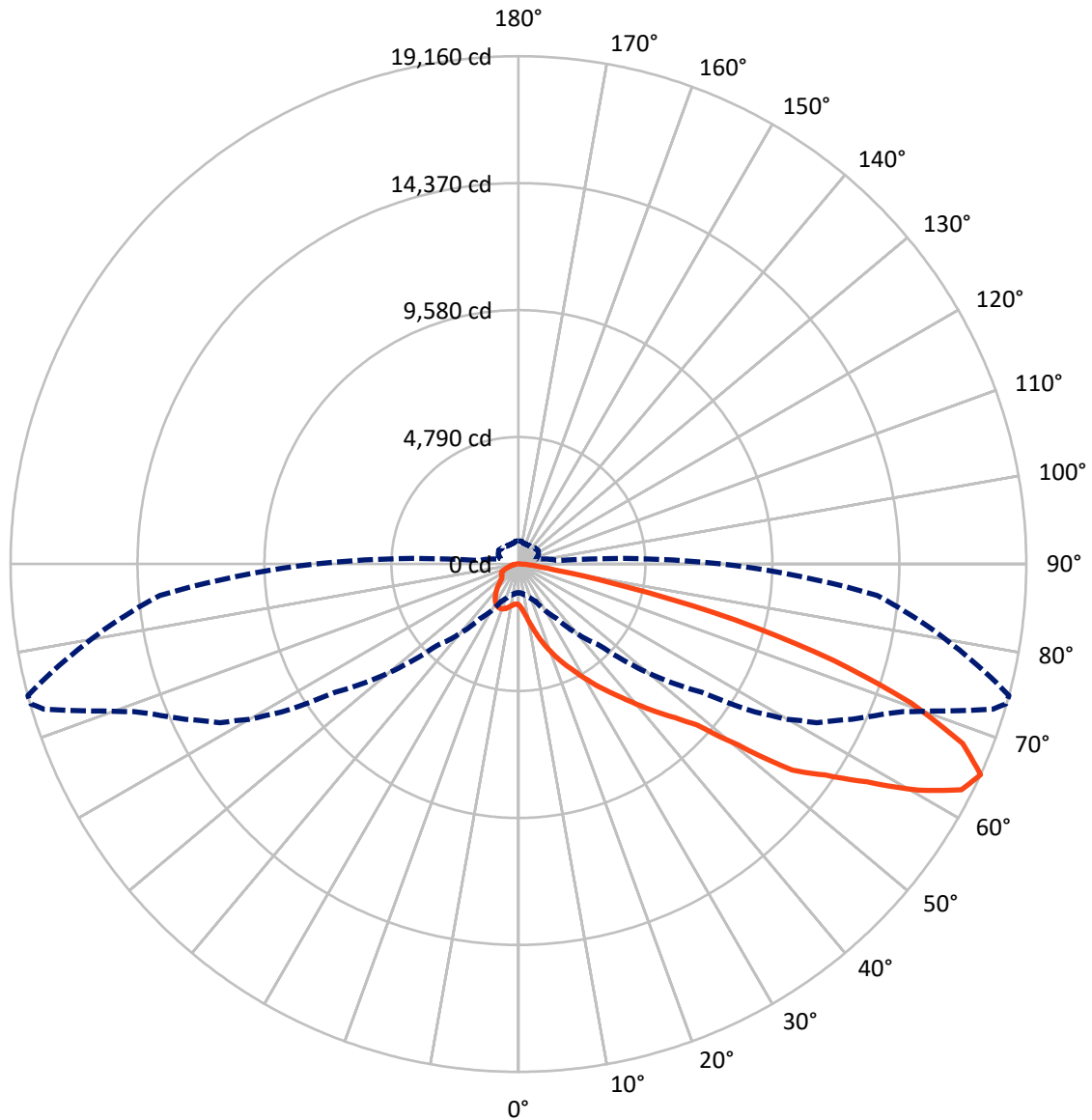
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	2918.9	0.0	2918.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	16013.1	0.0	16013.1
	% Fixture	84.6	0.0	84.6
Total	Lumens	18932.0	0.0	18932.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.2	1.0
10°-20°	743.1	3.9
20°-30°	1524.5	8.1
30°-40°	2564.9	13.5
40°-50°	3544.0	18.7
50°-60°	4423.9	23.4
60°-70°	3981.1	21.0
70°-80°	1668.8	8.8
80°-90°	291.6	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°	18932.0	100.0
0°-180°	18932.0	100.0

Coefficient of Utilization



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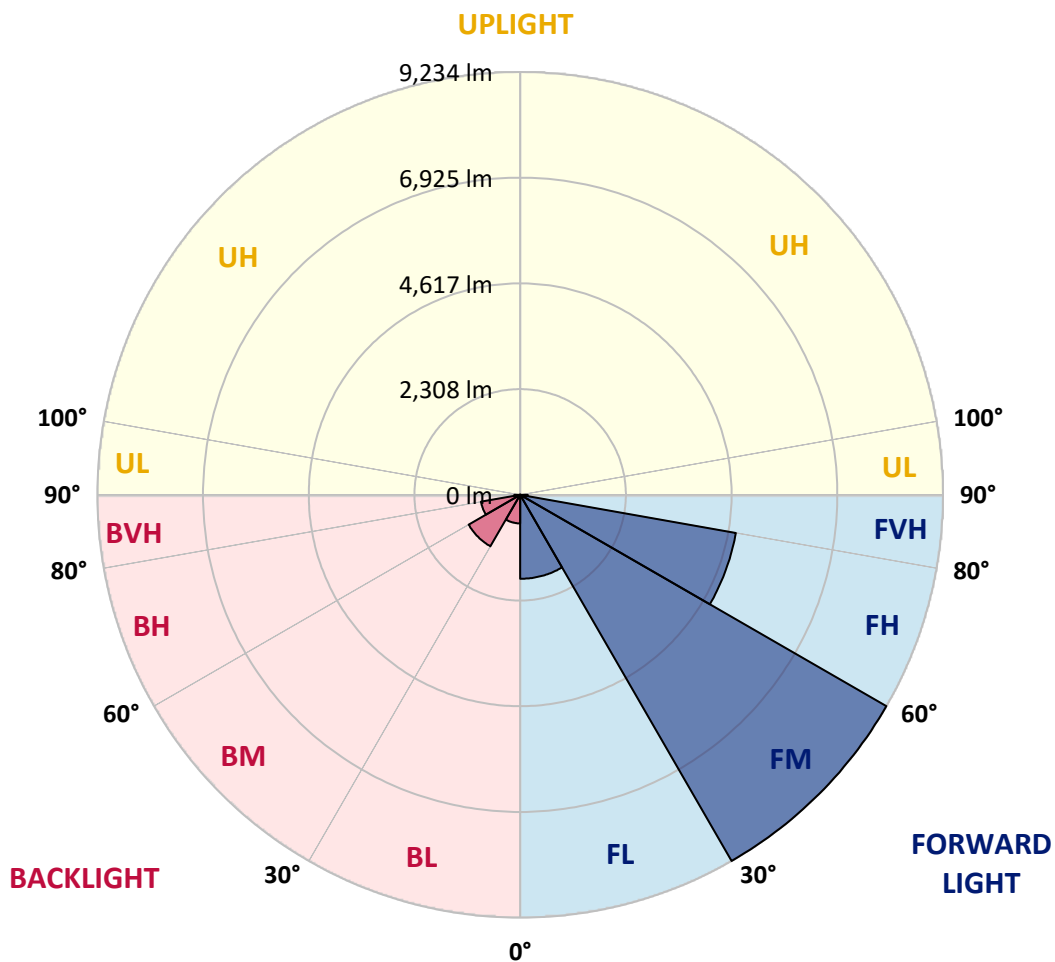
CATALOG NUMBER: GLEON-AF-03-LED-E1-T2R-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1833.5	9.7			
FM (30°-60°)	9233.6	48.8			
FH (60°-80°)	4782.2	25.3			G2/5000
FVH (80°-90°)	163.9	0.9			G2/225
BL (0°-30°)	624.2	3.3	B2/1000		
BM (30°-60°)	1299.2	6.9	B2/2500		
BH (60°-80°)	867.7	4.6	B2/1000		G2/1000
BVH (80°-90°)	127.7	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6
2.5°	1953.5	1932.0	1937.3	1901.5	1857.6	1800.2	1736.6	1735.7	1736.6	1730.4	1707.1
5°	2708.9	2682.9	2673.0	2592.4	2474.1	2305.6	2122.8	2103.1	2095.1	2074.4	2027.0
7.5°	3260.0	3245.6	3230.4	3169.5	3061.9	2873.8	2628.2	2586.1	2545.8	2535.9	2482.2
10°	3615.7	3612.1	3579.9	3563.8	3496.5	3333.5	3094.2	3053.9	3010.0	2994.7	2938.3
12.5°	3897.1	3896.2	3881.0	3885.4	3827.2	3708.9	3502.8	3466.1	3433.8	3387.2	3346.9
15°	4091.5	4092.4	4114.8	4139.9	4131.0	4051.2	3857.7	3841.5	3813.8	3781.5	3734.0
17.5°	4251.1	4255.5	4278.8	4324.5	4373.8	4367.5	4214.3	4200.9	4176.7	4132.8	4107.7
20°	4611.3	4628.3	4583.5	4583.5	4588.9	4613.1	4539.6	4528.8	4494.8	4471.5	4451.8
22.5°	5219.7	5239.4	5138.2	5035.1	4933.9	4860.4	4786.9	4800.4	4777.1	4760.9	4749.3
25°	6010.1	6025.3	5861.3	5687.5	5481.4	5212.6	5030.7	5022.6	5010.0	5000.2	4994.8
27.5°	6753.8	6760.1	6605.1	6350.6	6111.3	5725.1	5278.0	5268.1	5252.9	5234.1	5217.9
30°	7390.1	7388.3	7228.8	6985.9	6729.6	6302.2	5653.4	5623.0	5578.2	5527.1	5487.7
32.5°	7941.2	7938.5	7763.7	7511.9	7243.1	6873.9	6167.8	6105.1	6035.2	5935.7	5875.7
35°	8374.9	8373.1	8208.2	7945.6	7637.4	7412.5	6757.4	6680.4	6591.6	6458.1	6365.8
37.5°	8538.8	8538.8	8446.5	8267.3	7994.9	7840.8	7412.5	7319.3	7224.3	7072.8	6968.9
40°	8443.0	8444.8	8464.5	8431.3	8298.7	8180.4	8023.6	7968.0	7886.5	7750.3	7641.9
42.5°	8121.3	8131.1	8262.0	8422.4	8488.7	8469.8	8565.7	8540.6	8483.3	8378.4	8292.4
45°	7713.5	7744.0	7887.4	8190.3	8541.5	8719.9	9020.0	9022.7	9012.0	8955.5	8889.2
47.5°	7153.5	7196.5	7385.6	7795.1	8417.9	8962.7	9481.5	9505.7	9528.1	9491.4	9460.9
50°	6409.7	6460.8	6744.0	7287.0	8166.1	9214.5	10353.4	10462.8	10564.9	10552.4	10573.0
52.5°	5613.1	5673.1	6019.9	6624.8	7733.3	9272.7	10910.8	11089.1	11267.4	11413.5	11568.5
55°	4894.4	4862.2	5209.0	5846.1	7021.8	9010.2	11411.7	11626.8	11825.7	12004.9	12189.5
57.5°	3920.4	3973.3	4320.9	4950.9	6080.0	8269.1	11756.7	12071.2	12357.1	12653.7	12915.4
60°	2865.7	2918.6	3295.8	3935.6	5057.5	7145.4	11493.3	11970.0	12427.9	12882.2	13237.0
62.5°	1730.4	1769.8	2102.2	2711.6	3899.8	5812.9	10319.4	10944.8	11618.7	12161.7	12705.7
65°	1077.1	1099.5	1222.3	1557.4	2504.6	4339.8	8431.3	9113.2	9839.1	10528.2	11093.6
67.5°	881.8	889.8	912.2	983.9	1375.5	2829.9	6275.3	6879.3	7534.3	8201.0	8830.1
70°	793.0	787.7	787.7	792.1	881.8	1521.6	4108.6	4502.0	5047.7	5627.4	6202.7
72.5°	716.0	710.6	700.7	687.3	719.6	928.3	2123.7	2420.3	2813.7	3329.0	3880.1
75°	643.4	636.2	624.6	607.5	630.0	700.7	1019.8	1144.3	1336.1	1610.3	1917.6
77.5°	568.1	559.2	548.4	535.9	564.5	544.8	597.7	642.5	716.0	803.8	919.4
80°	483.0	474.9	471.3	465.1	499.1	414.9	422.1	449.8	492.8	540.3	594.1
82.5°	378.2	378.2	392.5	395.2	432.8	298.4	315.4	339.6	362.0	387.1	412.2
85°	249.1	250.9	299.3	318.1	341.4	200.7	236.6	244.6	262.6	276.9	287.6
87.5°	78.0	84.2	182.8	202.5	196.2	113.8	145.2	148.8	161.3	171.2	180.1
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°	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6
2.5°	1707.1	1696.3	1686.4	1685.5	1678.4	1668.5	1672.1	1656.9	1657.8	1649.7	1640.7
5°	2007.2	2000.1	1964.2	1954.4	1927.5	1910.5	1907.8	1871.9	1867.5	1846.8	1824.4
7.5°	2439.2	2415.9	2365.7	2341.5	2295.8	2261.7	2245.6	2198.1	2174.8	2121.0	2096.9
10°	2891.7	2862.1	2800.3	2766.2	2722.3	2667.7	2638.1	2569.1	2542.2	2492.9	2433.8
12.5°	3311.1	3281.5	3217.9	3191.9	3133.6	3075.4	3043.1	2965.2	2930.2	2851.4	2804.8
15°	3699.1	3669.5	3613.9	3587.0	3528.8	3481.3	3438.3	3361.2	3320.0	3246.5	3185.6
17.5°	4075.4	4044.1	3995.7	3971.5	3915.0	3866.6	3820.0	3747.4	3705.3	3631.9	3577.2
20°	4424.9	4401.6	4366.6	4334.4	4277.9	4234.0	4178.5	4115.7	4054.8	4001.0	3949.1
22.5°	4729.6	4720.6	4683.0	4668.6	4620.2	4582.6	4534.2	4472.4	4428.5	4360.4	4312.0
25°	4992.1	4989.4	4971.5	4967.0	4933.0	4897.1	4886.4	4835.3	4795.0	4734.9	4684.8
27.5°	5217.9	5220.6	5216.1	5228.7	5219.7	5203.6	5204.5	5187.5	5164.2	5114.0	5070.1
30°	5468.8	5454.5	5462.6	5480.5	5485.9	5487.7	5517.2	5527.1	5525.3	5492.1	5470.6
32.5°	5823.7	5789.6	5758.3	5755.6	5773.5	5780.7	5830.9	5856.8	5879.2	5887.3	5890.9
35°	6276.2	6208.1	6142.7	6107.8	6077.3	6085.3	6121.2	6163.3	6212.6	6246.6	6287.0
37.5°	6846.1	6762.8	6647.2	6564.8	6544.1	6499.3	6522.6	6555.8	6604.2	6657.1	6727.0
40°	7537.0	7410.7	7280.7	7171.4	7112.3	7029.8	7028.9	7022.7	7052.2	7101.5	7200.1
42.5°	8201.9	8089.9	7951.9	7837.2	7760.1	7649.9	7627.5	7569.3	7582.7	7625.7	7721.6
45°	8824.7	8732.4	8648.2	8515.5	8450.1	8331.0	8293.3	8224.3	8185.8	8205.5	8301.4
47.5°	9427.8	9368.6	9280.8	9194.8	9144.6	9038.0	8989.6	8940.3	8891.0	8889.2	8989.6
50°	10603.4	10572.1	10468.1	10378.5	10402.7	10271.9	10279.9	10147.3	10207.4	10214.5	10425.1
52.5°	11708.3	11817.6	11894.7	11988.8	12049.7	12061.4	12101.7	12161.7	12234.3	12377.7	12573.0
55°	12341.0	12478.1	12557.8	12629.5	12747.8	12772.9	12840.1	12919.8	12983.5	13144.7	13310.5
57.5°	13092.8	13347.3	13470.9	13584.7	13744.2	13805.2	13917.2	14004.1	14086.5	14277.4	14478.1
60°	13556.1	13866.1	14117.9	14298.0	14497.8	14641.2	14810.6	14946.8	15140.3	15368.8	15668.1
62.5°	13187.8	13643.0	13977.2	14286.4	14557.9	14832.1	15074.9	15329.4	15623.3	15969.2	16433.4
65°	11720.9	12184.1	12756.7	13077.5	13436.9	13859.8	14229.0	14641.2	15041.8	15545.4	16231.8
67.5°	9435.8	9974.4	10617.8	10941.3	11354.4	11826.6	12240.6	12744.2	13212.0	13822.2	14670.8
70°	6801.3	7497.6	8038.8	8376.7	8858.7	9345.3	9745.0	10331.0	10718.1	11343.6	12220.9
72.5°	4306.6	4855.9	5519.0	5944.7	6373.0	6865.8	7274.5	7779.9	8141.0	8710.9	9505.7
75°	2315.5	2720.5	3303.0	3707.1	4165.9	4587.1	5065.6	5404.3	5671.4	6122.1	6767.3
77.5°	1085.2	1331.6	1626.4	1937.3	2248.3	2572.7	2888.1	3162.3	3277.0	3535.1	3915.9
80°	658.6	738.4	824.4	920.3	1050.2	1155.1	1294.0	1394.3	1401.5	1483.0	1599.5
82.5°	440.0	469.6	495.5	519.7	552.9	578.9	608.4	643.4	657.7	676.5	714.2
85°	300.2	314.5	319.9	335.1	331.6	340.5	352.2	363.8	370.1	369.2	386.2
87.5°	184.6	191.8	195.3	198.9	196.2	192.7	198.0	204.3	206.1	200.7	202.5
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°	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6
2.5°	1642.5	1634.5	1626.4	1621.0	1619.2	1571.7	1551.1	1537.7	1509.0	1485.7	1466.9
5°	1811.9	1794.9	1781.4	1765.3	1756.3	1636.3	1592.4	1561.9	1511.7	1482.1	1455.3
7.5°	2084.3	2036.8	2009.0	1977.7	1950.8	1733.9	1661.4	1613.9	1544.0	1504.5	1474.1
10°	2393.5	2344.2	2300.3	2251.9	2209.8	1863.9	1758.1	1684.6	1592.4	1541.3	1501.0
12.5°	2738.5	2690.1	2634.5	2572.7	2518.9	2028.7	1881.8	1776.9	1650.6	1582.5	1526.0
15°	3146.2	3061.0	2993.8	2922.2	2859.4	2225.9	2026.1	1880.9	1712.4	1620.1	1544.9
17.5°	3525.2	3435.6	3344.2	3281.5	3208.9	2447.2	2171.2	1986.6	1763.5	1644.3	1548.4
20°	3895.3	3797.6	3718.8	3634.5	3558.4	2676.6	2326.3	2079.8	1796.7	1645.2	1526.0
22.5°	4221.5	4160.5	4072.7	3981.3	3904.3	2906.0	2471.4	2158.7	1809.2	1624.6	1486.6
25°	4592.5	4527.9	4420.4	4343.3	4257.3	3139.9	2613.9	2219.6	1802.0	1586.1	1425.7
27.5°	4988.5	4916.8	4806.6	4726.0	4622.0	3382.7	2744.7	2263.5	1775.2	1523.4	1344.1
30°	5401.6	5336.2	5227.8	5146.2	5041.4	3639.9	2890.8	2293.1	1721.4	1436.4	1249.1
32.5°	5845.2	5790.5	5683.0	5597.9	5485.9	3918.6	3027.0	2302.1	1639.8	1333.4	1148.8
35°	6266.4	6228.7	6138.2	6058.5	5942.0	4182.1	3171.3	2297.6	1543.1	1220.5	1057.4
37.5°	6740.4	6718.0	6673.2	6571.9	6429.4	4539.6	3344.2	2278.8	1424.8	1108.5	987.5
40°	7245.8	7247.6	7199.2	7130.2	6997.6	4973.3	3550.3	2242.0	1295.7	1009.9	923.9
42.5°	7780.8	7808.5	7785.2	7735.9	7608.7	5410.6	3796.7	2197.2	1170.3	914.0	861.1
45°	8393.7	8427.7	8463.6	8391.0	8267.3	5987.7	4121.1	2139.0	1035.0	834.3	818.1
47.5°	9100.7	9154.5	9186.7	9187.6	9064.0	6702.8	4648.0	2104.0	914.9	780.5	797.5
50°	10592.7	10609.7	10685.9	10818.5	10723.5	8357.8	5568.3	2082.5	833.4	747.3	782.3
52.5°	12742.4	12929.7	13061.4	13052.5	12923.4	9408.9	6075.5	1971.4	785.0	734.8	775.1
55°	13617.9	13851.8	14095.5	14160.0	14059.7	10305.9	6554.9	1860.3	761.7	743.8	777.8
57.5°	14784.6	15178.9	15513.1	15653.8	15508.6	11453.8	7185.7	1802.0	754.5	767.9	794.8
60°	16147.5	16635.0	17074.1	17326.8	17326.8	12772.9	7839.9	1777.8	744.7	803.8	823.5
62.5°	17023.0	17739.0	18402.1	18772.2	18761.4	13691.4	8130.2	1695.4	722.2	828.9	862.9
65°	17026.6	17877.9	18722.9	19138.7	19160.2	13578.5	7650.8	1497.4	681.0	832.5	902.4
67.5°	15607.2	16514.9	17499.7	17964.8	18072.4	12499.6	6623.0	1231.2	613.8	796.6	916.7
70°	13181.5	14067.7	15073.1	15530.1	15721.0	10655.4	5334.4	949.0	527.8	717.8	887.1
72.5°	10384.8	11254.0	11953.8	12288.1	12436.8	8144.6	3884.6	716.9	432.8	604.9	807.4
75°	7352.4	8004.8	8376.7	8451.0	8474.3	4909.7	2360.3	533.2	356.6	470.4	681.9
77.5°	4149.8	4429.4	4398.9	4432.1	4156.1	1895.2	1027.8	381.7	293.9	357.5	528.7
80°	1620.1	1670.3	1569.1	1537.7	1410.4	705.2	453.4	266.1	234.8	270.6	370.1
82.5°	714.2	737.5	716.0	721.4	690.0	363.8	271.5	192.7	179.2	198.0	245.5
85°	393.4	400.6	398.8	410.4	393.4	145.2	129.0	118.3	125.5	134.4	157.7
87.5°	191.8	193.6	187.3	197.1	190.9	73.5	63.6	67.2	73.5	75.3	75.3
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°	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6
2.5°	1453.5	1446.3	1447.2	1445.4	1441.8	1441.8
5°	1440.9	1433.7	1433.7	1432.0	1427.5	1428.4
7.5°	1453.5	1441.8	1437.3	1431.1	1424.8	1424.8
10°	1467.8	1447.2	1434.6	1423.9	1415.8	1415.8
12.5°	1478.5	1446.3	1425.7	1411.3	1403.3	1403.3
15°	1482.1	1440.0	1411.3	1394.3	1387.1	1386.3
17.5°	1470.5	1415.8	1380.9	1361.2	1352.2	1349.5
20°	1434.6	1371.9	1329.8	1307.4	1294.9	1290.4
22.5°	1380.9	1309.2	1259.9	1236.6	1220.5	1217.8
25°	1305.6	1228.5	1180.2	1157.7	1148.8	1146.1
27.5°	1217.8	1146.1	1104.9	1090.5	1082.5	1081.6
30°	1134.5	1073.5	1043.0	1032.3	1022.4	1020.6
32.5°	1056.5	1018.0	1006.3	991.1	967.8	965.1
35°	1000.9	997.3	989.3	955.2	926.6	918.5
37.5°	966.9	1000.0	958.8	891.6	871.0	869.2
40°	947.2	972.3	901.5	878.2	880.0	878.2
42.5°	902.4	928.3	903.3	892.5	899.7	901.5
45°	857.6	886.2	916.7	909.5	926.6	926.6
47.5°	832.5	875.5	915.8	915.8	940.9	949.9
50°	803.8	866.5	901.5	914.0	933.7	926.6
52.5°	802.0	851.3	880.9	903.3	912.2	904.2
55°	804.7	838.7	860.2	885.3	896.1	897.0
57.5°	808.3	831.6	845.9	857.6	889.8	889.8
60°	817.2	825.3	833.4	839.6	881.8	882.6
62.5°	831.6	819.0	817.2	823.5	877.3	873.7
65°	854.0	810.1	796.6	802.9	872.8	862.0
67.5°	884.4	796.6	770.6	775.1	869.2	845.9
70°	912.2	775.1	738.4	733.9	835.2	793.9
72.5°	914.9	750.0	693.6	680.1	725.8	686.4
75°	870.1	733.0	644.3	604.9	599.5	594.1
77.5°	784.1	723.1	586.9	525.1	514.4	517.9
80°	655.9	686.4	517.9	444.5	502.7	496.4
82.5°	490.2	605.8	440.0	393.4	392.5	346.8
85°	272.4	472.2	358.4	294.8	205.2	198.9
87.5°	76.2	262.6	250.9	166.7	113.8	118.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)