

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: P194646

Luminaire Tested: **GLEON-AF-08-LED-E1-SLL-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194646
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-08-LED-E1-SLL-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45990 lumens
Efficiency: N/A
Efficacy: 90.0 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): 511
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

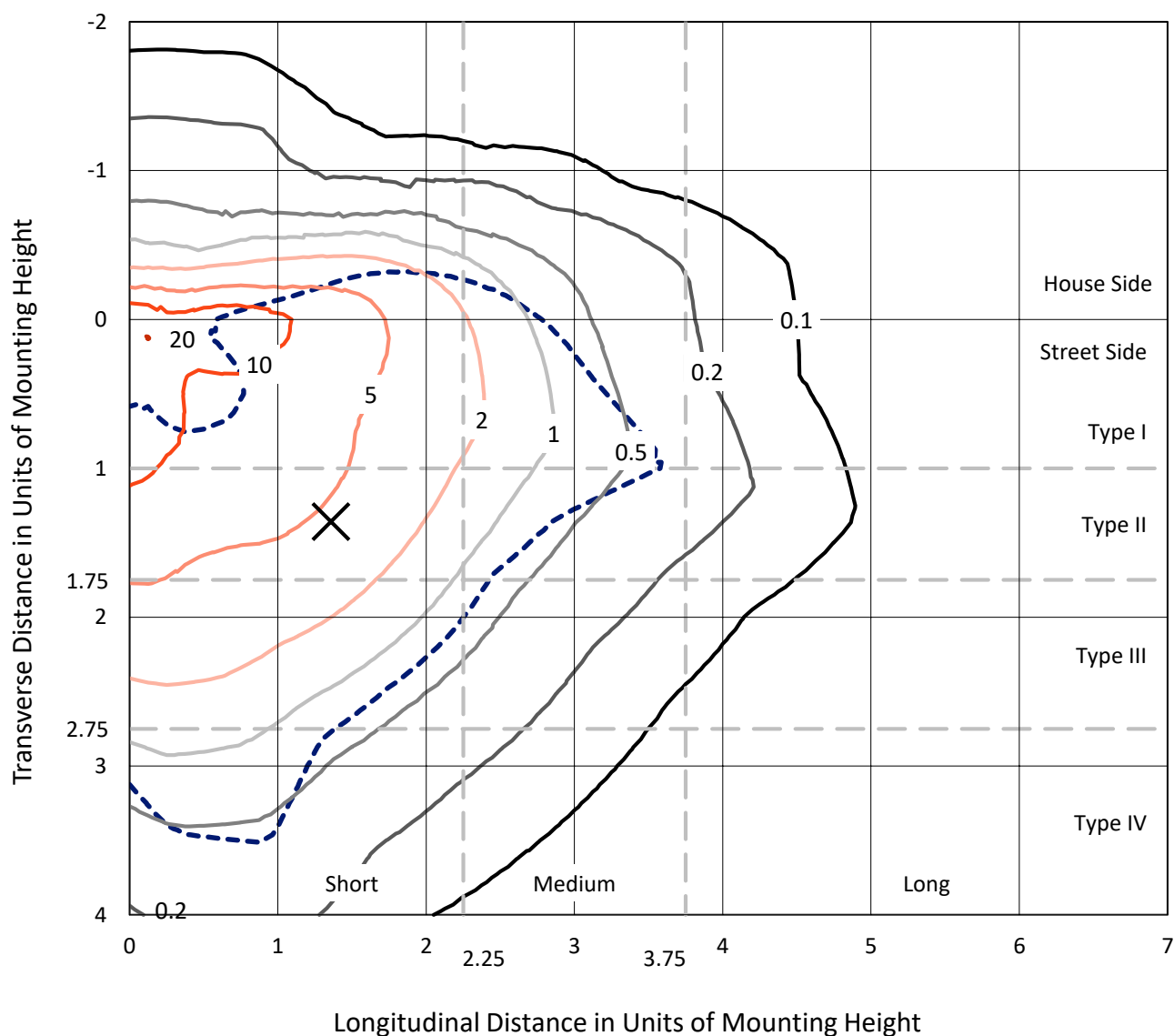


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

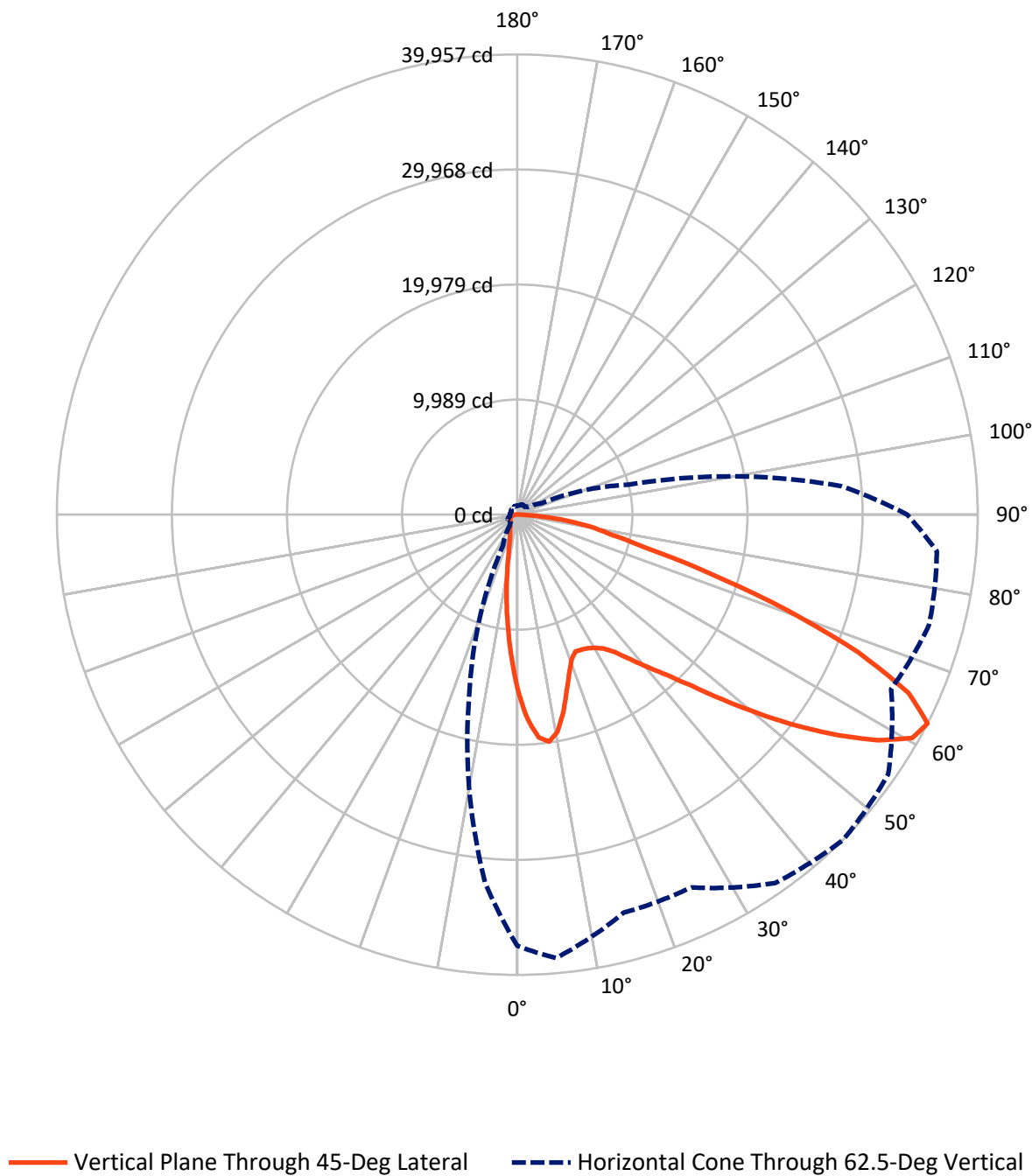


Based on 30 foot mounting height. Maximum calculated value = 20.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7610.7	0.0	7610.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	38379.3	0.0	38379.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	45990.0	0.0	45990.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1131.1	2.5
10°-20°	2074.1	4.5
20°-30°	3024.0	6.6
30°-40°	4657.5	10.1
40°-50°	6854.6	14.9
50°-60°	10054.2	21.9
60°-70°	11239.2	24.4
70°-80°	5502.5	12.0
80°-90°	1452.8	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°	45990.0	100.0
0°-180°	45990.0	100.0

Coefficient of Utilization



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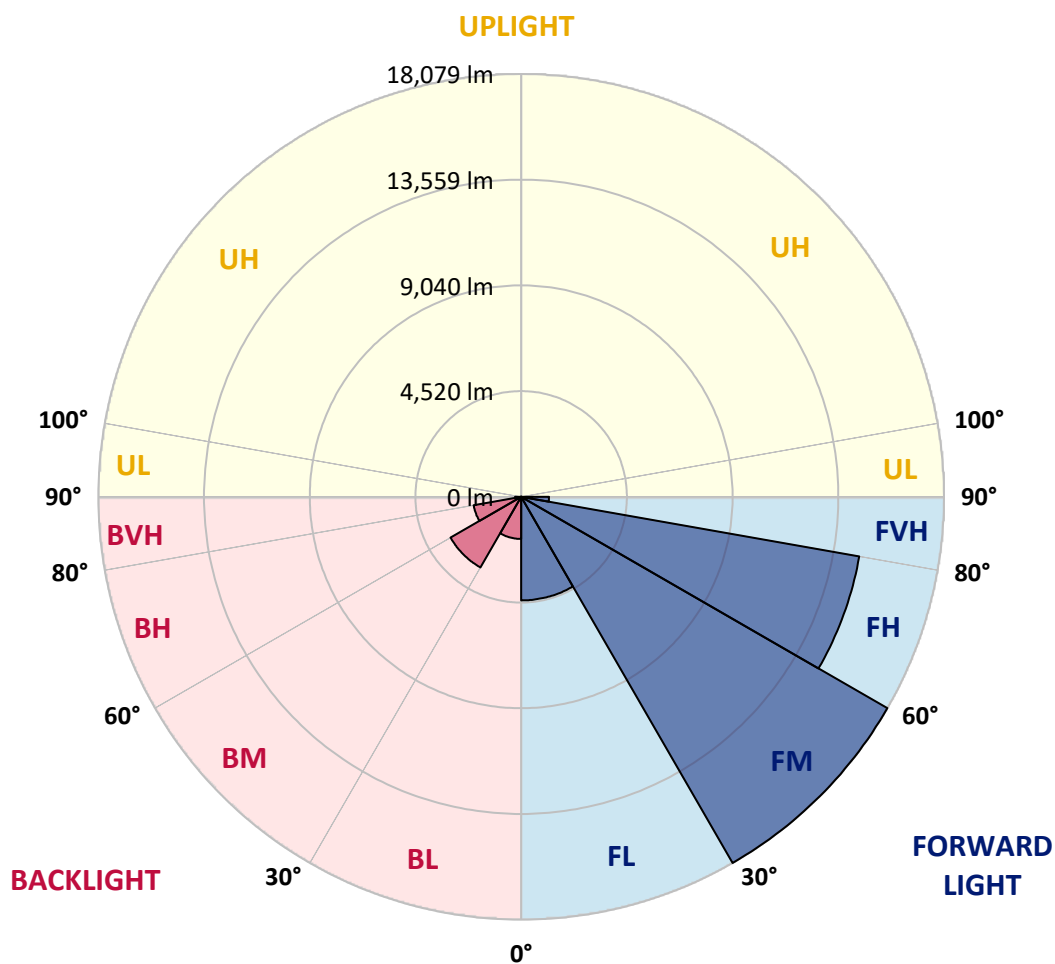
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4428.7	9.6			
FM	(30°-60°)	18079.1	39.3			
FH	(60°-80°)	14678.4	31.9			G5
FVH	(80°-90°)	1193.1	2.6			G5
BL	(0°-30°)	1800.6	3.9	B3/2500		
BM	(30°-60°)	3487.2	7.6	B3/5000		
BH	(60°-80°)	2063.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	259.7	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°	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9
2.5°	16144.7	16402.5	16905.6	17282.3	17739.9	17846.1	17992.7	17848.6	17593.3	17254.5	17143.3
5°	15181.4	15732.6	16953.7	18028.1	18983.7	19428.7	19552.6	19186.0	18445.3	17471.9	16877.8
7.5°	13636.7	14420.5	16073.9	17656.5	19064.6	19896.4	19876.2	19024.2	17661.5	16076.4	15123.3
10°	12304.4	13199.4	15095.5	16865.2	18359.3	19165.8	18854.8	17765.2	16139.6	14314.3	13280.3
12.5°	11558.6	12435.9	14359.8	16137.1	17386.0	17664.1	17426.4	16359.5	14827.5	12982.0	12076.9
15°	11429.7	12392.9	14066.5	15512.6	16212.9	15970.2	15687.1	15209.2	14127.2	12552.2	11609.2
17.5°	11988.4	13050.2	14402.8	15077.8	14959.0	14536.8	14455.9	14508.9	14248.6	13030.0	11942.9
20°	13060.3	14334.5	15204.2	14873.0	14005.9	13424.4	13444.6	14256.1	15027.2	14241.0	12999.7
22.5°	14564.6	16018.2	16359.5	14981.7	13603.9	12913.7	13080.6	14395.2	16268.5	16010.7	14425.5
25°	16511.2	17836.0	17590.7	15376.1	13644.3	12976.9	13110.9	14875.5	17734.8	17780.4	16190.2
27.5°	18397.2	19625.9	18624.7	15899.4	13811.2	13126.1	13303.0	15631.4	19135.4	19701.7	18207.6
30°	19868.6	20723.1	19034.3	16377.2	14139.8	13416.8	13636.7	16349.4	19772.5	20998.7	19759.9
32.5°	21087.1	21701.5	19686.6	16968.8	14744.1	13874.4	14261.2	17221.6	20690.2	22232.4	21279.3
35°	22644.5	22818.9	20498.1	17628.7	15676.9	14670.8	15151.1	18076.1	21565.0	23478.8	22775.9
37.5°	24469.8	24244.8	21264.1	18531.2	16882.9	15917.1	16314.0	19014.1	22285.5	24892.0	24305.5
40°	26274.9	25733.9	22224.8	19931.8	18642.4	17386.0	17856.2	20015.2	22958.0	26307.7	25799.6
42.5°	27809.5	27008.0	23172.9	21471.4	20280.7	19006.5	19567.7	21023.9	23600.1	27516.2	27096.5
45°	28944.6	27948.5	24075.4	22950.4	22538.3	21160.5	21425.9	22179.3	24295.3	28524.9	28163.4
47.5°	29958.4	28894.0	25096.8	24442.0	24512.8	23961.6	23534.4	23524.3	25114.5	29349.1	29172.1
50°	31316.0	30206.1	26194.0	25979.1	27475.7	27109.2	26166.2	25094.2	26151.0	30284.5	30264.3
52.5°	33186.8	32284.2	27533.9	27635.0	30241.5	30481.7	29313.7	26980.2	27774.1	32001.1	31879.7
55°	35398.9	34873.1	29359.2	29538.7	33634.3	33806.2	32645.8	29339.0	30160.6	34486.2	34150.0
57.5°	37125.6	37014.4	31361.5	31824.1	36167.5	36941.1	35874.2	32069.4	32850.5	36579.5	35735.1
60°	37813.3	38351.8	33492.7	34129.8	38511.0	39368.1	38432.7	34468.6	35234.6	37446.7	35626.4
62.5°	37441.6	38645.0	35763.0	35709.9	39034.4	39957.1	39299.8	35803.4	37001.7	36551.7	33823.9
65°	35725.0	37590.8	37080.1	35302.8	37244.4	37320.3	37107.9	35206.8	37418.9	33722.8	30340.1
67.5°	31985.9	34670.8	35345.8	31814.0	32415.7	31922.7	31566.3	31940.4	35244.7	29483.1	25498.7
70°	26052.4	30092.4	30416.0	25445.6	25172.6	24841.4	24131.0	26186.4	30954.4	24163.9	20232.6
72.5°	19155.7	23402.9	24396.5	18662.7	17398.6	17466.9	16905.6	19734.6	25167.6	17949.7	15105.6
75°	13105.8	16946.1	19087.4	13022.4	11505.5	11533.3	11462.6	13983.1	20045.6	12486.4	11303.3
77.5°	9574.0	12107.2	14395.2	8754.9	8499.6	8342.8	8304.9	9783.9	15368.5	9065.9	8777.7
80°	7683.0	8944.5	9670.1	6067.5	6525.1	6512.5	6302.6	6727.4	10036.7	6631.3	6565.6
82.5°	5329.3	6874.0	7834.7	4755.4	4404.0	4330.7	4381.3	5010.8	7093.9	4532.9	4310.5
85°	2811.3	4565.8	7758.8	4214.4	2614.1	2085.7	2593.9	4103.2	6145.9	2401.7	2103.4
87.5°	359.0	1319.7	5137.2	1681.2	1031.5	556.2	1231.2	2310.7	3946.4	490.5	427.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9
2.5°	16857.6	16521.3	16081.4	15674.4	15252.2	14832.6	14283.9	13940.1	13702.5	13657.0	13555.8
5°	16448.0	15330.6	14486.2	13755.6	13093.2	12157.8	11639.5	11209.7	10979.7	10956.9	10901.3
7.5°	14559.5	13017.4	11877.2	10843.2	9905.2	9149.3	8315.0	7925.7	7766.4	7804.3	7842.3
10°	12595.2	10871.0	9561.4	8504.6	7677.9	7040.8	6370.9	5918.4	5604.9	5541.7	5529.0
12.5°	11159.2	9268.1	7996.5	7250.7	6611.1	6011.9	5301.5	4768.1	4361.0	4222.0	4128.4
15°	10552.4	8484.4	7152.1	6348.1	5642.8	4881.8	4222.0	3663.3	3289.1	3167.7	3099.5
17.5°	10681.4	8267.0	6570.6	5541.7	4639.1	3845.3	3013.5	2535.7	2310.7	2252.6	2252.6
20°	11358.9	8226.5	6090.3	4798.4	3673.4	2753.1	2070.5	1797.5	1724.2	1716.6	1736.8
22.5°	12309.5	8368.1	5731.3	4153.7	2854.3	2009.9	1612.9	1511.8	1479.0	1486.5	1509.3
25°	13725.2	8845.9	5470.9	3579.8	2239.9	1645.8	1438.5	1377.8	1362.7	1382.9	1410.7
27.5°	15403.9	9323.8	5309.1	3147.5	1891.0	1504.2	1367.7	1304.5	1314.6	1339.9	1365.2
30°	16877.8	9715.6	5053.7	2839.1	1782.3	1511.8	1367.7	1281.8	1271.7	1276.7	1284.3
32.5°	18200.0	9981.1	4755.4	2545.8	1537.1	1342.4	1276.7	1264.1	1208.4	1188.2	1190.8
35°	19340.2	9981.1	4575.9	2373.9	1377.8	1190.8	1084.6	1021.4	993.6	996.1	1023.9
37.5°	20439.9	9781.3	4487.4	2277.8	1291.9	1132.6	1039.1	983.4	945.5	937.9	943.0
40°	21410.8	9490.6	4386.3	2237.4	1226.1	1097.2	1008.7	963.2	922.8	910.1	912.7
42.5°	22189.4	9255.5	4275.1	2184.3	1185.7	1071.9	988.5	948.0	902.5	889.9	887.4
45°	23031.3	9177.1	4128.4	2078.1	1205.9	1074.5	983.4	940.5	895.0	879.8	874.7
47.5°	24141.1	9422.3	3976.8	1951.7	1248.9	1087.1	991.0	940.5	892.4	879.8	874.7
50°	25539.2	9998.8	3784.6	1767.2	1205.9	1122.5	988.5	932.9	892.4	879.8	869.7
52.5°	27334.2	10777.4	3531.8	1554.8	1180.6	1208.4	983.4	917.7	879.8	862.1	844.4
55°	29515.9	11414.5	3231.0	1380.4	1122.5	1185.7	975.9	900.0	859.6	834.3	819.1
57.5°	31113.7	11644.6	2844.1	1266.6	1041.6	1147.8	965.7	877.3	834.3	814.1	793.8
60°	30797.7	11199.6	2518.0	1195.8	993.6	1036.5	958.2	857.0	811.5	796.4	778.7
62.5°	28267.0	10036.7	2308.2	1162.9	963.2	945.5	965.7	836.8	791.3	776.1	771.1
65°	24472.3	8320.1	2224.8	1155.4	937.9	892.4	897.5	814.1	768.6	755.9	750.9
67.5°	20187.1	6714.7	2151.4	1180.6	905.1	854.5	829.2	783.7	745.8	733.2	723.0
70°	15919.6	5584.6	2118.6	1165.5	864.6	816.6	788.8	750.9	718.0	705.3	697.8
72.5°	12820.2	4717.5	2100.9	1150.3	811.5	766.0	740.7	707.9	672.5	667.4	659.8
75°	10848.2	3708.8	1923.9	1102.3	750.9	705.3	687.7	657.3	621.9	621.9	616.9
77.5°	8368.1	2682.3	1600.3	975.9	687.7	637.1	621.9	599.2	558.7	566.3	563.8
80°	6181.3	1749.5	1251.4	809.0	609.3	561.2	553.7	530.9	487.9	498.0	498.0
82.5°	4234.6	1147.8	900.0	662.4	520.8	475.3	475.3	452.5	404.5	409.6	424.7
85°	2126.2	788.8	672.5	513.2	404.5	381.7	381.7	364.1	316.0	318.5	338.8
87.5°	647.2	475.3	445.0	366.6	290.7	285.7	273.0	260.4	230.1	227.5	240.2
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9
2.5°	13401.6	13257.5	13083.1	12698.8	12569.9	12562.3	12678.6	12557.2	12789.8	12691.2	12799.9
5°	10807.8	10666.2	10471.5	9981.1	9682.7	9480.5	9384.4	9101.3	9306.1	9156.9	9280.8
7.5°	7948.4	7981.3	7852.4	7564.2	6914.4	6588.3	6396.2	6224.3	6373.4	6358.3	6595.9
10°	5587.2	5675.7	5584.6	5293.9	4768.1	4588.6	4624.0	4692.2	4886.9	4988.0	5354.6
12.5°	4022.3	4017.2	3959.1	3698.7	3352.3	3372.5	3516.6	3635.5	3815.0	3921.1	4295.3
15°	3003.4	2957.9	2932.6	2720.3	2523.1	2566.1	2636.8	2649.5	2763.2	2826.5	3129.8
17.5°	2270.3	2293.0	2320.8	2169.1	2020.0	1992.2	1936.5	1868.3	1901.2	1913.8	2065.5
20°	1802.6	1893.6	1961.8	1855.6	1704.0	1623.1	1552.3	1506.8	1506.8	1504.2	1547.2
22.5°	1575.0	1640.8	1714.1	1640.8	1504.2	1433.5	1393.0	1357.6	1352.6	1352.6	1393.0
25°	1451.1	1499.2	1570.0	1519.4	1418.3	1365.2	1327.3	1281.8	1264.1	1259.0	1286.8
27.5°	1390.5	1410.7	1446.1	1400.6	1314.6	1289.3	1279.2	1238.8	1216.0	1203.4	1231.2
30°	1286.8	1281.8	1284.3	1238.8	1170.5	1168.0	1185.7	1193.3	1185.7	1183.2	1226.1
32.5°	1190.8	1180.6	1178.1	1137.7	1074.5	1059.3	1074.5	1089.6	1107.3	1132.6	1183.2
35°	1069.4	1094.7	1109.8	1074.5	998.6	953.1	935.4	907.6	892.4	892.4	950.6
37.5°	973.3	1031.5	1054.2	1021.4	937.9	874.7	844.4	839.3	841.9	852.0	907.6
40°	940.5	983.4	1003.7	970.8	887.4	829.2	811.5	806.5	811.5	826.7	882.3
42.5°	920.2	950.6	948.0	907.6	839.3	798.9	788.8	783.7	788.8	803.9	864.6
45°	902.5	922.8	902.5	854.5	791.3	771.1	773.6	771.1	776.1	791.3	849.5
47.5°	887.4	895.0	869.7	821.6	755.9	750.9	761.0	768.6	773.6	786.2	846.9
50°	864.6	864.6	841.9	791.3	725.6	728.1	740.7	758.4	761.0	776.1	824.2
52.5°	836.8	834.3	819.1	771.1	700.3	707.9	707.9	728.1	733.2	750.9	801.4
55°	814.1	809.0	801.4	755.9	677.5	690.2	682.6	690.2	702.8	720.5	776.1
57.5°	793.8	783.7	783.7	743.3	659.8	664.9	647.2	657.3	672.5	687.7	745.8
60°	773.6	763.5	768.6	725.6	632.0	627.0	619.4	639.6	644.7	662.4	720.5
62.5°	750.9	743.3	745.8	705.3	611.8	599.2	599.2	616.9	619.4	644.7	700.3
65°	733.2	723.0	720.5	685.1	589.1	573.9	581.5	589.1	594.1	619.4	672.5
67.5°	715.5	695.2	695.2	667.4	563.8	548.6	563.8	561.2	568.8	591.6	634.6
70°	692.7	664.9	667.4	654.8	538.5	520.8	533.4	530.9	536.0	551.1	594.1
72.5°	657.3	634.6	639.6	634.6	513.2	487.9	493.0	493.0	493.0	505.6	551.1
75°	611.8	594.1	609.3	621.9	482.9	447.5	452.5	452.5	445.0	452.5	508.2
77.5°	556.2	546.1	596.6	578.9	447.5	404.5	404.5	399.4	384.3	394.4	455.1
80°	495.5	487.9	551.1	485.4	407.0	351.4	346.4	333.7	318.5	326.1	386.8
82.5°	432.3	424.7	462.6	371.6	351.4	290.7	278.1	255.3	240.2	247.8	303.4
85°	353.9	353.9	356.5	280.6	268.0	222.5	207.3	177.0	159.3	164.3	217.4
87.5°	252.8	260.4	240.2	192.1	159.3	123.9	113.8	96.1	80.9	93.5	113.8
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°	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9
2.5°	13356.1	13634.2	13950.2	14354.7	14701.1	15269.9	15816.0	16144.7
5°	9986.1	10448.8	11025.2	11765.9	12456.1	13492.6	14521.6	15181.4
7.5°	7147.0	7642.5	8264.5	9189.8	10165.6	11487.8	12848.0	13636.7
10°	5913.3	6421.5	6944.8	7569.2	8368.1	9806.6	11414.5	12304.4
12.5°	4891.9	5435.5	5999.3	6656.6	7397.3	8681.6	10534.7	11558.6
15°	3744.2	4350.9	5015.8	5847.6	6775.4	8259.4	10317.3	11429.7
17.5°	2566.1	3243.6	4060.2	5086.6	6221.7	8122.9	10706.6	11988.4
20°	1767.2	2260.2	3132.4	4335.7	5700.9	8105.2	11455.0	13060.3
22.5°	1479.0	1698.9	2336.0	3645.6	5309.1	8322.6	12615.4	14564.6
25°	1367.7	1499.2	1865.8	3046.4	5023.4	8823.2	14213.2	16511.2
27.5°	1302.0	1420.8	1693.8	2654.5	4798.4	9404.7	15768.0	18397.2
30°	1327.3	1448.6	1645.8	2454.8	4492.5	9890.1	17148.3	19868.6
32.5°	1195.8	1248.9	1410.7	2277.8	4272.5	10297.1	18356.8	21087.1
35°	1018.8	1112.4	1259.0	2194.4	4277.6	10570.1	19673.9	22644.5
37.5°	970.8	1064.3	1170.5	2164.1	4335.7	10860.9	21185.7	24469.8
40°	940.5	1026.4	1117.4	2146.4	4391.4	11126.3	22667.2	26274.9
42.5°	920.2	998.6	1112.4	2085.7	4419.2	11364.0	23885.8	27809.5
45°	917.7	998.6	1132.6	2025.0	4462.2	11619.3	24907.2	28944.6
47.5°	920.2	1031.5	1094.7	1951.7	4462.2	12046.5	26105.5	29958.4
50°	910.1	1087.1	1054.2	1848.1	4358.5	12855.6	27748.8	31316.0
52.5°	905.1	1079.5	975.9	1688.8	4179.0	14139.8	29854.7	33186.8
55°	892.4	1041.6	920.2	1451.1	3969.2	15540.4	32109.8	35398.9
57.5°	879.8	922.8	889.9	1243.8	3645.6	16526.4	33662.1	37125.6
60°	986.0	806.5	864.6	1142.7	3213.3	16796.9	33601.4	37813.3
62.5°	912.7	755.9	831.8	1120.0	2909.9	16038.5	32049.1	37441.6
65°	715.5	723.0	798.9	1185.7	2829.0	14028.6	29298.5	35725.0
67.5°	654.8	690.2	766.0	1269.1	2836.6	11232.5	25187.8	31985.9
70°	616.9	654.8	728.1	1312.1	2856.8	8373.2	19914.1	26052.4
72.5°	573.9	606.8	685.1	1319.7	2725.3	6082.7	15348.3	19155.7
75°	523.3	553.7	624.4	1150.3	2257.6	4219.5	11740.6	13105.8
77.5°	465.2	487.9	548.6	887.4	1676.2	2700.0	8813.1	9574.0
80°	396.9	409.6	460.1	649.7	1147.8	1688.8	6972.6	7683.0
82.5°	318.5	323.6	356.5	487.9	745.8	1084.6	4669.5	5329.3
85°	225.0	225.0	245.2	353.9	508.2	687.7	2535.7	2811.3
87.5°	106.2	108.7	108.7	194.7	265.5	348.9	584.0	359.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)