

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: P193036

Luminaire Tested: **GLEON-AF-08-LED-E1-SLL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193036
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-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA 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: 40547.2 lumens
Efficiency: N/A
Efficacy: 91.1 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): 445
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

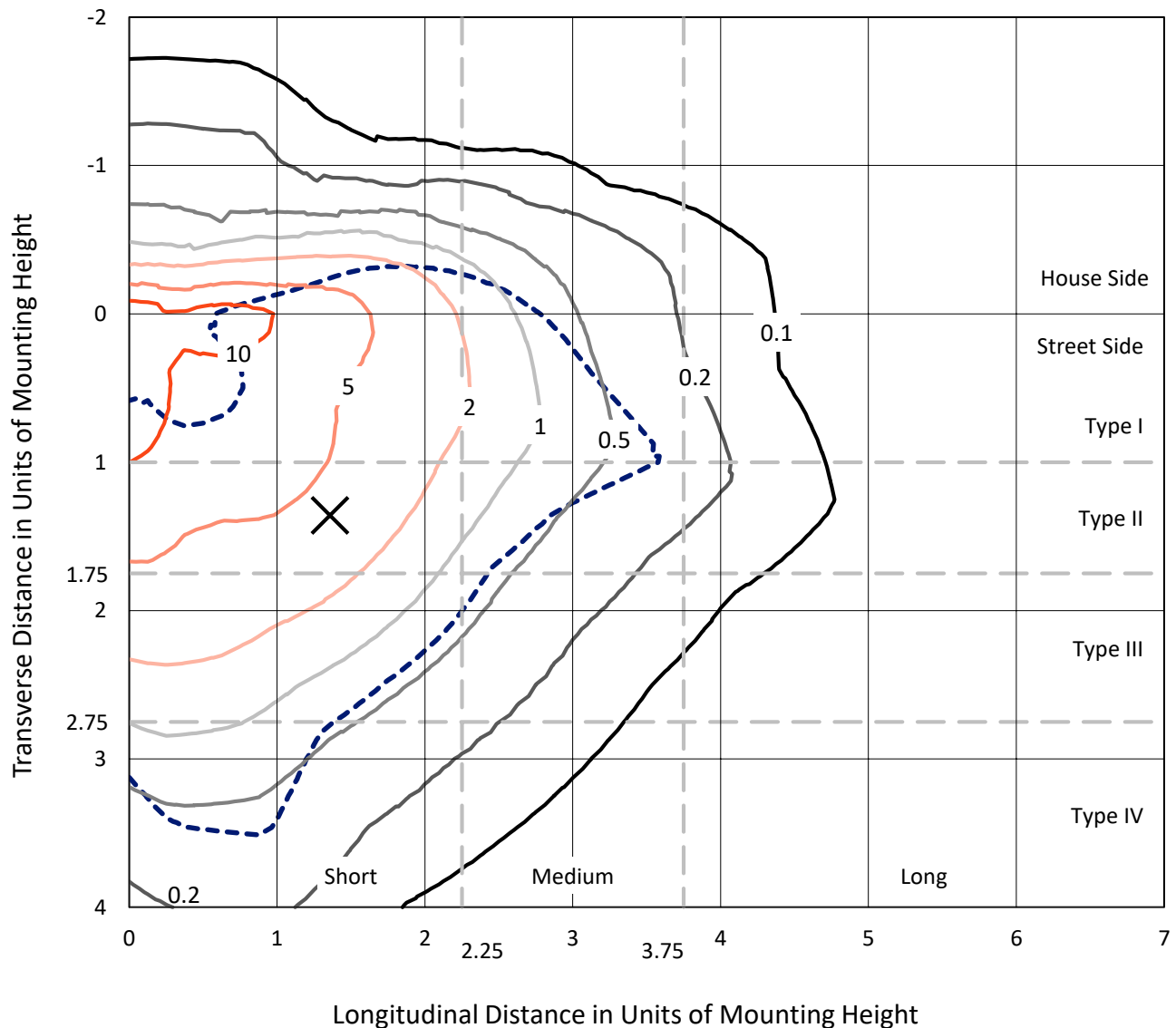


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

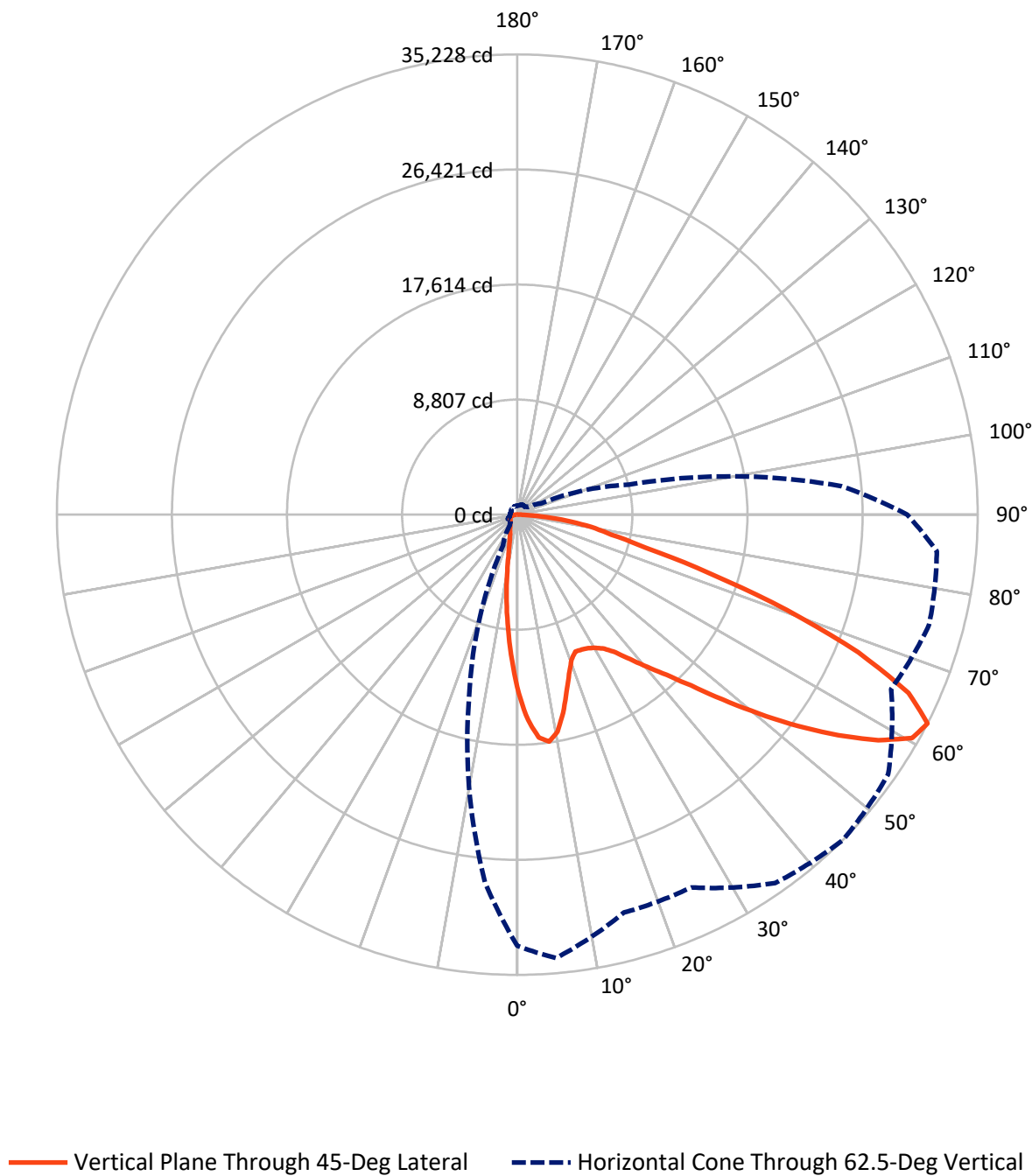


Based on 30 foot mounting height. Maximum calculated value = 17.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6710.0	0.0	6710.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	33837.2	0.0	33837.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	40547.2	0.0	40547.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	997.2	2.5
10°-20°	1828.7	4.5
20°-30°	2666.2	6.6
30°-40°	4106.3	10.1
40°-50°	6043.4	14.9
50°-60°	8864.3	21.9
60°-70°	9909.0	24.4
70°-80°	4851.3	12.0
80°-90°	1280.9	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°	40547.2	100.0
0°-180°	40547.2	100.0

Coefficient of Utilization



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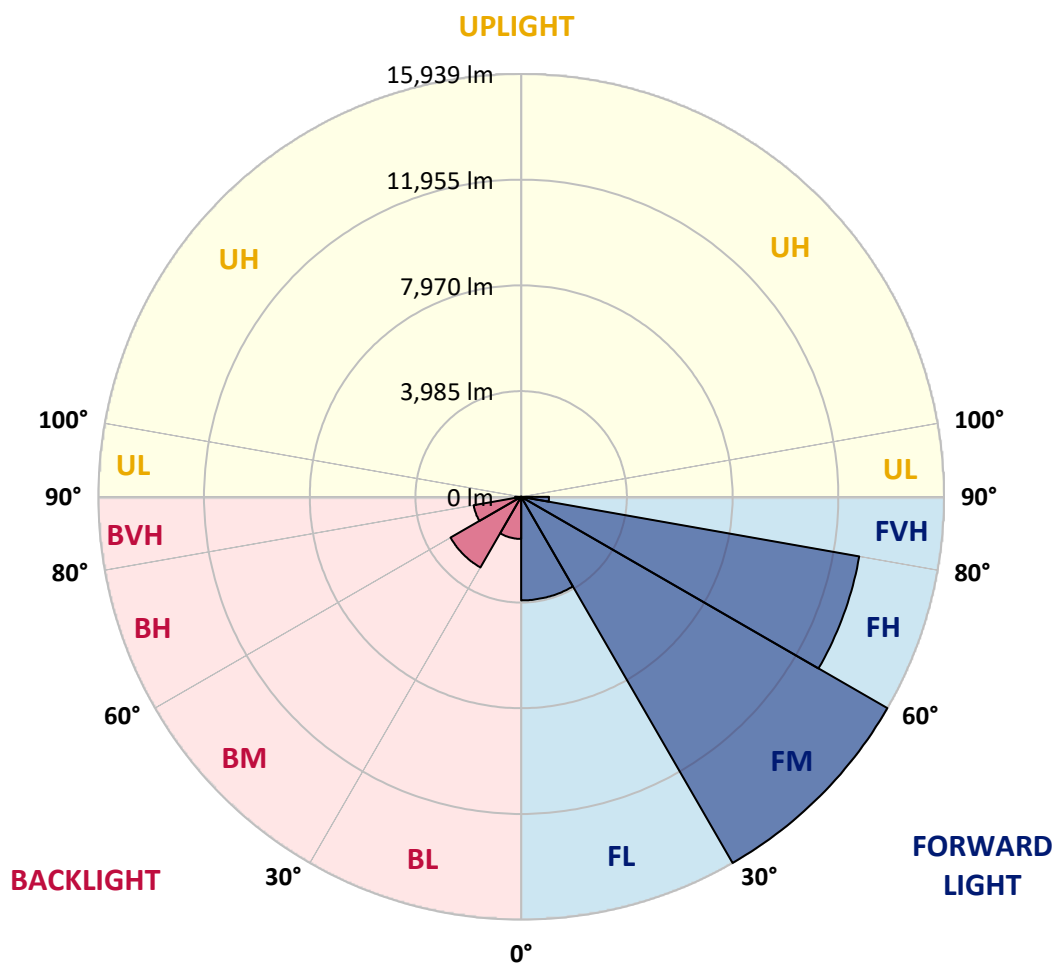
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3904.6	9.6			
FM	(30°-60°)	15939.5	39.3			
FH	(60°-80°)	12941.3	31.9			G5
FVH	(80°-90°)	1051.9	2.6			G5
BL	(0°-30°)	1587.5	3.9	B3/2500		
BM	(30°-60°)	3074.5	7.6	B3/5000		
BH	(60°-80°)	1819.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	229.0	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°	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0
2.5°	14234.0	14461.3	14904.9	15237.0	15640.5	15734.1	15863.4	15736.3	15511.1	15212.5	15114.4
5°	13384.7	13870.7	14947.2	15894.5	16737.1	17129.3	17238.6	16915.4	16262.2	15404.1	14880.3
7.5°	12022.9	12713.9	14171.6	15566.8	16808.5	17541.7	17523.9	16772.7	15571.3	14173.7	13333.5
10°	10848.3	11637.3	13309.0	14869.2	16186.5	16897.6	16623.4	15662.8	14229.5	12620.2	11708.6
12.5°	10190.7	10964.1	12660.3	14227.3	15328.4	15573.6	15364.0	14423.5	13072.7	11445.6	10647.7
15°	10077.0	10926.3	12401.8	13676.7	14294.2	14080.1	13830.6	13409.3	12455.3	11066.7	10235.3
17.5°	10569.6	11505.8	12698.2	13293.3	13188.5	12816.3	12745.1	12791.8	12562.3	11487.9	10529.6
20°	11514.8	12638.0	13404.8	13112.9	12348.3	11835.6	11853.4	12568.9	13248.8	12555.6	11461.2
22.5°	12840.9	14122.6	14423.5	13208.7	11993.9	11385.4	11532.6	12691.5	14343.2	14115.9	12718.4
25°	14557.1	15725.1	15509.0	13556.4	12029.6	11441.1	11559.3	13115.1	15636.0	15676.1	14274.0
27.5°	16220.0	17303.2	16420.6	14017.8	12176.6	11572.6	11728.7	13781.5	16870.8	17370.0	16052.8
30°	17517.2	18270.6	16781.6	14439.0	12466.5	11829.0	12022.9	14414.5	17432.6	18513.6	17421.4
32.5°	18591.5	19133.2	17356.7	14960.7	12999.1	12232.3	12573.4	15183.5	18241.6	19601.2	18760.9
35°	19964.6	20118.4	18072.2	15542.3	13821.7	12934.5	13358.0	15936.9	19012.9	20700.1	20080.4
37.5°	21573.9	21375.5	18747.6	16338.1	14884.8	14033.4	14383.3	16763.8	19648.1	21946.1	21429.0
40°	23165.3	22688.3	19594.5	17572.9	16436.2	15328.4	15742.9	17646.5	20241.0	23194.3	22746.2
42.5°	24518.4	23811.8	20430.4	18930.4	17880.5	16757.1	17251.9	18535.9	20807.2	24259.7	23889.7
45°	25519.0	24640.9	21226.2	20234.3	19871.0	18656.1	18890.3	19554.4	21420.1	25149.1	24830.4
47.5°	26412.9	25474.5	22126.6	21549.3	21611.7	21125.9	20749.1	20740.2	22142.3	25875.7	25719.6
50°	27609.9	26631.3	23094.0	22904.6	24224.1	23900.9	23069.4	22124.5	23056.1	26700.4	26682.5
52.5°	29259.2	28463.4	24275.3	24364.5	26662.5	26874.3	25844.5	23787.2	24487.0	28213.8	28106.8
55°	31209.6	30745.9	25884.6	26042.8	29653.7	29805.3	28782.2	25866.8	26591.2	30404.8	30108.5
57.5°	32731.9	32633.8	27649.9	28057.8	31887.1	32569.2	31628.6	28274.0	28962.8	32250.5	31506.0
60°	33338.2	33812.9	29529.0	30090.6	33953.4	34708.9	33884.2	30389.3	31064.7	33015.0	31410.2
62.5°	33010.5	34071.5	31530.5	31483.7	34414.7	35228.4	34648.8	31566.2	32622.6	32225.9	29820.9
65°	31497.0	33142.0	32691.8	31124.8	32836.7	32903.5	32716.3	31040.1	32990.5	29731.7	26749.4
67.5°	28200.5	30567.6	31162.7	28048.9	28579.4	28144.7	27830.5	28160.4	31073.6	25993.9	22481.0
70°	22969.1	26531.0	26816.3	22434.2	22193.5	21901.4	21275.2	23087.2	27291.1	21304.1	17838.2
72.5°	16888.6	20633.3	21509.3	16454.0	15339.6	15399.6	14904.9	17399.1	22189.0	15825.4	13317.8
75°	11554.8	14940.5	16828.4	11481.3	10143.8	10168.4	10105.9	12328.3	17673.2	11008.8	9965.5
77.5°	8441.0	10674.4	12691.5	7718.8	7493.6	7355.5	7322.0	8626.0	13549.7	7993.0	7738.9
80°	6773.7	7886.0	8525.7	5349.5	5752.8	5741.7	5556.7	5931.2	8848.9	5846.5	5788.5
82.5°	4698.5	6060.5	6907.5	4192.6	3882.8	3818.2	3862.8	4417.8	6254.4	3996.4	3800.4
85°	2478.5	4025.4	6840.6	3715.6	2304.8	1838.9	2286.9	3617.6	5418.5	2117.5	1854.4
87.5°	316.6	1163.5	4529.3	1482.2	909.4	490.3	1085.5	2037.2	3479.4	432.4	376.7
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°	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0
2.5°	14862.5	14566.1	14178.2	13819.4	13447.2	13077.1	12593.4	12290.3	12080.8	12040.7	11951.6
5°	14501.4	13516.3	12771.8	12127.7	11543.7	10719.0	10262.0	9883.0	9680.3	9660.1	9611.2
7.5°	12836.5	11476.8	10471.5	9559.8	8733.0	8066.5	7331.0	6987.6	6847.3	6880.7	6914.2
10°	11104.6	9584.4	8429.8	7498.1	6769.2	6207.6	5616.9	5217.9	4941.6	4885.8	4874.7
12.5°	9838.5	8171.3	7050.2	6392.5	5828.7	5300.3	4674.1	4203.8	3845.0	3722.4	3639.9
15°	9303.5	7480.3	6305.7	5596.8	4975.0	4304.0	3722.4	3229.7	2899.8	2792.8	2732.7
17.5°	9417.3	7288.5	5793.0	4885.8	4090.1	3390.2	2656.8	2235.7	2037.2	1986.0	1986.0
20°	10014.6	7252.9	5369.5	4230.5	3238.7	2427.3	1825.5	1584.8	1520.2	1513.5	1531.3
22.5°	10852.7	7377.7	5053.0	3662.2	2516.5	1771.9	1422.0	1332.9	1303.9	1310.6	1330.7
25°	12100.9	7799.0	4823.4	3156.2	1974.9	1451.1	1268.3	1214.8	1201.5	1219.3	1243.7
27.5°	13580.9	8220.3	4680.7	2775.0	1667.3	1326.2	1205.9	1150.2	1159.0	1181.3	1203.6
30°	14880.3	8565.8	4455.6	2503.1	1571.3	1332.9	1205.9	1130.1	1121.1	1125.6	1132.3
32.5°	16046.2	8799.8	4192.6	2244.5	1355.2	1183.6	1125.6	1114.5	1065.4	1047.6	1049.9
35°	17051.3	8799.8	4034.4	2093.0	1214.8	1049.9	956.2	900.6	875.9	878.2	902.7
37.5°	18020.9	8623.8	3956.4	2008.3	1139.0	998.5	916.1	867.1	833.6	827.0	831.4
40°	18876.8	8367.4	3867.2	1972.5	1081.0	967.4	889.4	849.3	813.6	802.4	804.7
42.5°	19563.3	8160.1	3769.1	1925.8	1045.4	945.1	871.6	835.9	795.7	784.6	782.4
45°	20305.7	8091.0	3639.9	1832.2	1063.2	947.3	867.1	829.2	789.1	775.6	771.3
47.5°	21284.1	8307.2	3506.1	1720.8	1101.2	958.4	873.7	829.2	786.7	775.6	771.3
50°	22516.7	8815.5	3336.7	1558.0	1063.2	989.7	871.6	822.5	786.7	775.6	766.8
52.5°	24099.2	9501.9	3113.8	1370.7	1040.9	1065.4	867.1	809.1	775.6	760.1	744.5
55°	26022.9	10063.7	2848.6	1217.0	989.7	1045.4	860.4	793.6	757.8	735.6	722.2
57.5°	27431.5	10266.4	2507.5	1116.7	918.4	1012.0	851.4	773.4	735.6	717.8	700.0
60°	27152.9	9874.2	2220.0	1054.3	875.9	913.9	844.8	755.6	715.5	702.1	686.4
62.5°	24921.7	8848.9	2035.1	1025.3	849.3	833.6	851.4	737.8	697.6	684.3	679.8
65°	21576.1	7335.4	1961.4	1018.7	827.0	786.7	791.2	717.8	677.6	666.5	662.0
67.5°	17798.0	5920.1	1896.8	1040.9	797.9	753.4	731.1	690.9	657.5	646.4	637.5
70°	14035.6	4923.8	1867.9	1027.6	762.3	719.9	695.4	662.0	633.0	621.9	615.2
72.5°	11303.0	4159.2	1852.3	1014.2	715.5	675.3	653.1	624.1	592.9	588.5	581.8
75°	9564.3	3269.8	1696.2	971.9	662.0	621.9	606.3	579.5	548.4	548.4	543.9
77.5°	7377.7	2364.9	1410.9	860.4	606.3	561.7	548.4	528.3	492.5	499.4	497.0
80°	5449.8	1542.4	1103.3	713.3	537.1	494.8	488.2	468.0	430.2	439.1	439.1
82.5°	3733.5	1012.0	793.6	584.0	459.1	419.0	419.0	399.1	356.6	361.1	374.4
85°	1874.6	695.4	592.9	452.5	356.6	336.5	336.5	321.0	278.6	280.8	298.8
87.5°	570.7	419.0	392.2	323.2	256.3	251.9	240.7	229.6	202.7	200.6	211.8
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0
2.5°	11815.7	11688.5	11534.7	11195.9	11082.2	11075.6	11178.1	11071.1	11276.2	11189.2	11285.1
5°	9528.7	9403.8	9232.3	8799.8	8536.9	8358.6	8273.7	8024.1	8204.8	8073.1	8182.4
7.5°	7007.8	7036.8	6923.1	6668.9	6096.1	5808.6	5639.2	5487.6	5619.1	5605.8	5815.4
10°	4926.0	5004.0	4923.8	4667.3	4203.8	4045.6	4076.7	4136.9	4308.5	4397.6	4720.9
12.5°	3546.2	3541.7	3490.5	3261.0	2955.6	2973.4	3100.4	3205.2	3363.4	3457.1	3786.9
15°	2648.0	2607.8	2585.5	2398.3	2224.5	2262.3	2324.8	2336.0	2436.3	2491.9	2759.5
17.5°	2001.6	2021.7	2046.2	1912.5	1780.9	1756.5	1707.4	1647.2	1676.1	1687.3	1821.1
20°	1589.1	1669.5	1729.7	1636.0	1502.4	1431.0	1368.6	1328.5	1328.5	1326.2	1364.1
22.5°	1388.5	1446.6	1511.2	1446.6	1326.2	1263.8	1228.2	1196.9	1192.4	1192.4	1228.2
25°	1279.4	1321.7	1384.2	1339.6	1250.5	1203.6	1170.1	1130.1	1114.5	1110.0	1134.5
27.5°	1225.9	1243.7	1274.9	1234.8	1159.0	1136.8	1127.9	1092.1	1072.2	1061.0	1085.5
30°	1134.5	1130.1	1132.3	1092.1	1032.0	1029.8	1045.4	1052.0	1045.4	1043.1	1081.0
32.5°	1049.9	1040.9	1038.7	1003.0	947.3	933.9	947.3	960.7	976.2	998.5	1043.1
35°	942.8	965.1	978.5	947.3	880.4	840.3	824.7	800.3	786.7	786.7	838.1
37.5°	858.1	909.4	929.5	900.6	827.0	771.3	744.5	740.0	742.2	751.1	800.3
40°	829.2	867.1	884.9	855.9	782.4	731.1	715.5	711.1	715.5	728.9	777.9
42.5°	811.4	838.1	835.9	800.3	740.0	704.4	695.4	690.9	695.4	708.8	762.3
45°	795.7	813.6	795.7	753.4	697.6	679.8	682.1	679.8	684.3	697.6	749.0
47.5°	782.4	789.1	766.8	724.4	666.5	662.0	671.0	677.6	682.1	693.2	746.7
50°	762.3	762.3	742.2	697.6	639.7	641.9	653.1	668.6	671.0	684.3	726.7
52.5°	737.8	735.6	722.2	679.8	617.5	624.1	624.1	641.9	646.4	662.0	706.6
55°	717.8	713.3	706.6	666.5	597.3	608.5	601.8	608.5	619.6	635.3	684.3
57.5°	700.0	690.9	690.9	655.3	581.8	586.1	570.7	579.5	592.9	606.3	657.5
60°	682.1	673.1	677.6	639.7	557.2	552.8	546.1	563.9	568.3	584.0	635.3
62.5°	662.0	655.3	657.5	621.9	539.4	528.3	528.3	543.9	546.1	568.3	617.5
65°	646.4	637.5	635.3	604.1	519.3	506.0	512.7	519.3	523.8	546.1	592.9
67.5°	630.8	613.0	613.0	588.5	497.0	483.7	497.0	494.8	501.5	521.6	559.5
70°	610.8	586.1	588.5	577.3	474.7	459.1	470.3	468.0	472.5	485.8	523.8
72.5°	579.5	559.5	563.9	559.5	452.5	430.2	434.7	434.7	434.7	445.8	485.8
75°	539.4	523.8	537.1	548.4	425.7	394.5	399.1	399.1	392.2	399.1	448.0
77.5°	490.3	481.4	526.0	510.5	394.5	356.6	356.6	352.2	338.8	347.7	401.2
80°	436.8	430.2	485.8	428.0	358.8	309.9	305.4	294.2	280.8	287.6	341.0
82.5°	381.1	374.4	407.9	327.7	309.9	256.3	245.2	225.1	211.8	218.4	267.4
85°	312.1	312.1	314.2	247.4	236.2	196.1	182.8	156.0	140.4	144.9	191.6
87.5°	222.9	229.6	211.8	169.4	140.4	109.3	100.3	84.6	71.3	82.5	100.3
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0
2.5°	11775.4	12020.6	12299.2	12655.9	12961.2	13462.8	13944.2	14234.0
5°	8804.3	9212.2	9720.4	10373.5	10981.9	11895.8	12803.0	13384.7
7.5°	6301.2	6738.0	7286.4	8102.2	8962.5	10128.3	11327.5	12022.9
10°	5213.6	5661.5	6122.9	6673.4	7377.7	8646.0	10063.7	10848.3
12.5°	4313.0	4792.2	5289.2	5868.8	6521.9	7654.1	9288.0	10190.7
15°	3301.0	3836.0	4422.2	5155.5	5973.5	7281.9	9096.3	10077.0
17.5°	2262.3	2859.8	3579.7	4484.6	5485.4	7161.6	9439.6	10569.6
20°	1558.0	1992.7	2761.6	3822.7	5026.3	7146.0	10099.3	11514.8
22.5°	1303.9	1497.8	2059.5	3214.1	4680.7	7337.7	11122.4	12840.9
25°	1205.9	1321.7	1645.0	2685.8	4429.0	7778.9	12531.1	14557.1
27.5°	1147.9	1252.6	1493.3	2340.4	4230.5	8291.6	13901.8	16220.0
30°	1170.1	1277.1	1451.1	2164.3	3960.8	8719.6	15118.9	17517.2
32.5°	1054.3	1101.2	1243.7	2008.3	3766.9	9078.5	16184.2	18591.5
35°	898.2	980.7	1110.0	1934.8	3771.4	9319.2	17345.6	19964.6
37.5°	855.9	938.4	1032.0	1908.0	3822.7	9575.5	18678.4	21573.9
40°	829.2	905.0	985.2	1892.4	3871.7	9809.6	19984.6	23165.3
42.5°	811.4	880.4	980.7	1838.9	3896.1	10019.1	21058.9	24518.4
45°	809.1	880.4	998.5	1785.4	3934.1	10244.1	21959.5	25519.0
47.5°	811.4	909.4	965.1	1720.8	3934.1	10620.9	23016.0	26412.9
50°	802.4	958.4	929.5	1629.4	3842.6	11334.1	24464.8	27609.9
52.5°	797.9	951.7	860.4	1488.8	3684.4	12466.5	26321.4	29259.2
55°	786.7	918.4	811.4	1279.4	3499.5	13701.2	28309.7	31209.6
57.5°	775.6	813.6	784.6	1096.6	3214.1	14570.6	29678.3	32731.9
60°	869.2	711.1	762.3	1007.5	2833.0	14809.0	29624.8	33338.2
62.5°	804.7	666.5	733.3	987.3	2565.5	14140.4	28256.2	33010.5
65°	630.8	637.5	704.4	1045.4	2494.2	12368.3	25831.1	31497.0
67.5°	577.3	608.5	675.3	1119.0	2500.8	9903.1	22206.8	28200.5
70°	543.9	577.3	641.9	1156.8	2518.7	7382.2	17557.3	22969.1
72.5°	506.0	535.0	604.1	1163.5	2402.8	5362.8	13531.9	16888.6
75°	461.4	488.2	550.5	1014.2	1990.4	3720.1	10351.2	11554.8
77.5°	410.2	430.2	483.7	782.4	1477.7	2380.5	7770.1	8441.0
80°	349.9	361.1	405.7	572.8	1012.0	1488.8	6147.4	6773.7
82.5°	280.8	285.2	314.2	430.2	657.5	956.2	4116.9	4698.5
85°	198.5	198.5	216.3	312.1	448.0	606.3	2235.7	2478.5
87.5°	93.6	95.8	95.8	171.6	234.1	307.6	514.8	316.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)