

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: P193016

Luminaire Tested: **GLEON-AF-08-LED-E1-SLL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193016
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-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA 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: 26715 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 257
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



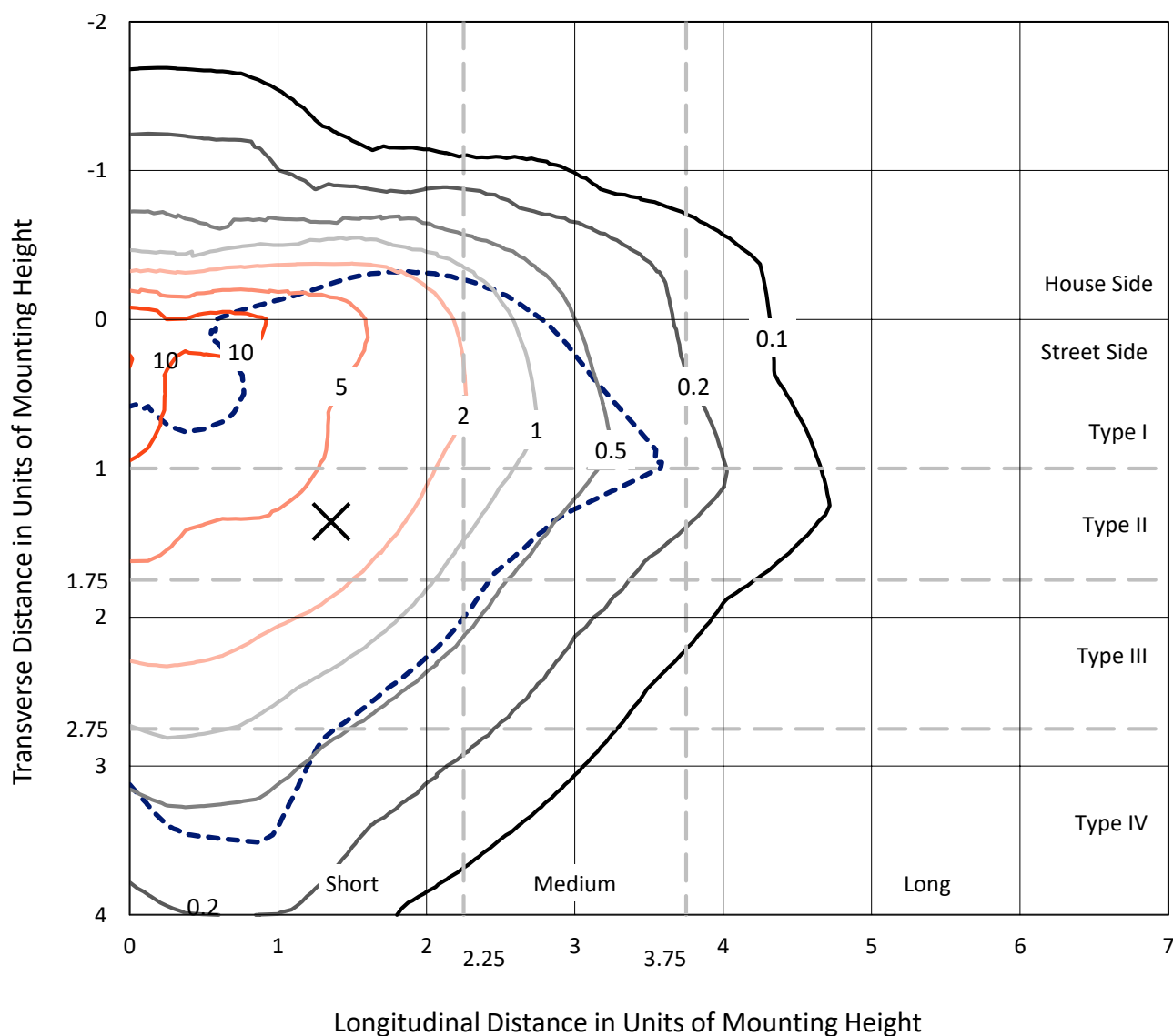
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

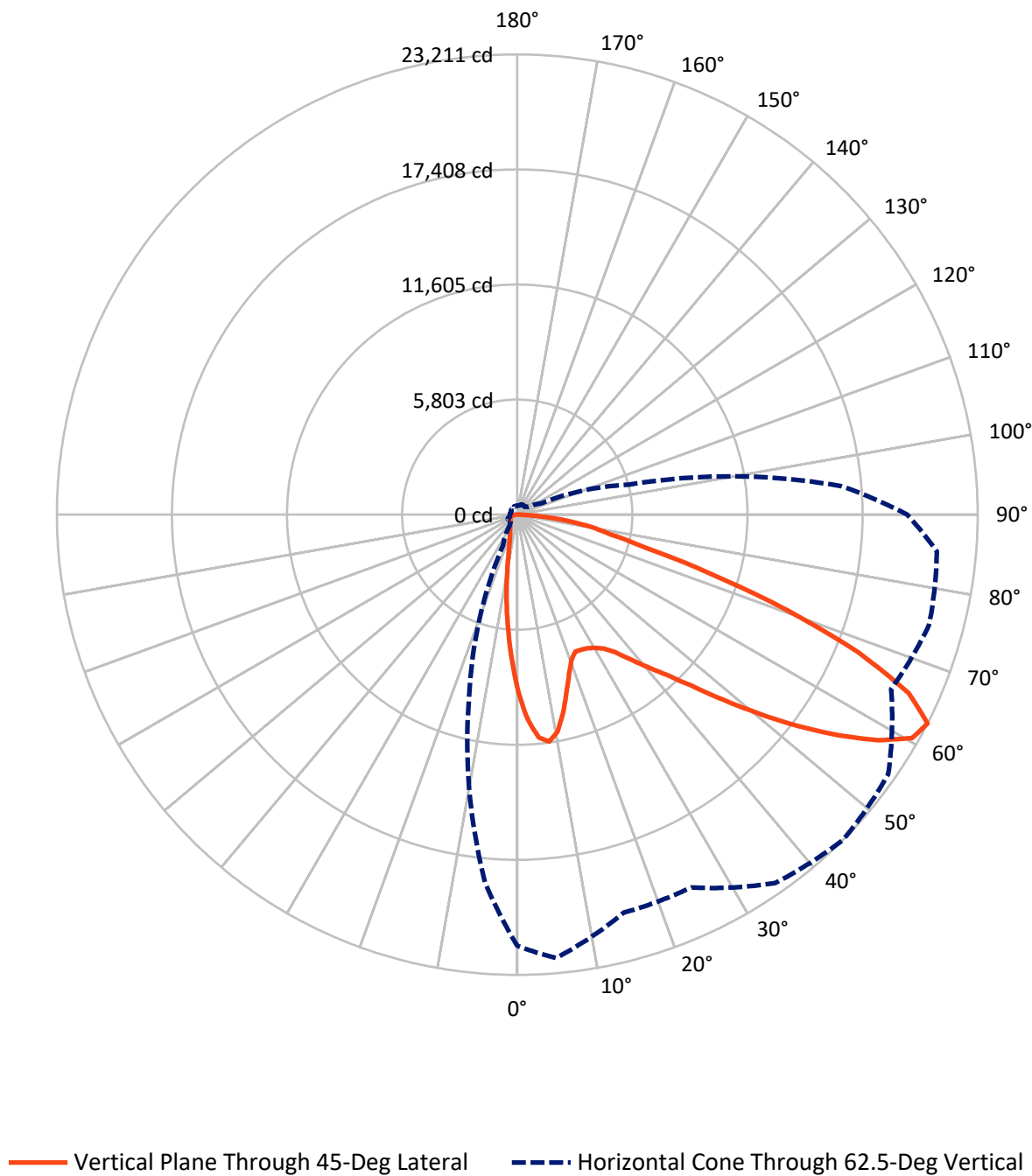


Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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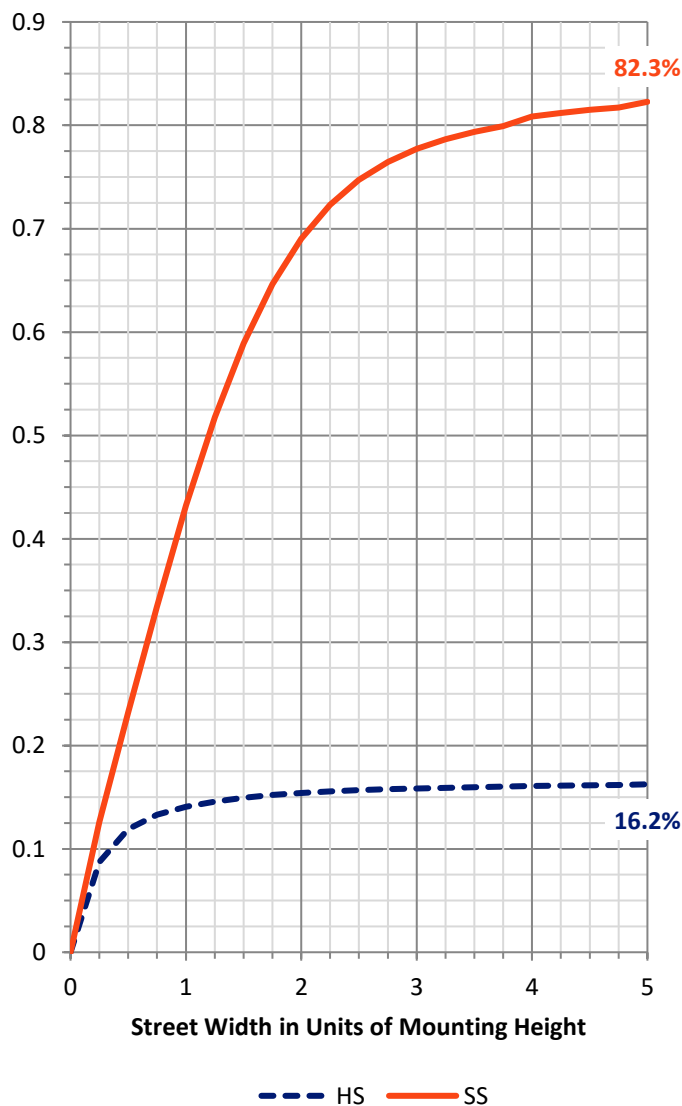
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4421.0	0.0	4421.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	22294.0	0.0	22294.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	26715.0	0.0	26715.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.0	2.5
10°-20°	1204.8	4.5
20°-30°	1756.6	6.6
30°-40°	2705.5	10.1
40°-50°	3981.7	14.9
50°-60°	5840.4	21.9
60°-70°	6528.7	24.4
70°-80°	3196.3	12.0
80°-90°	843.9	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°	26715.0	100.0
0°-180°	26715.0	100.0

Coefficient of Utilization



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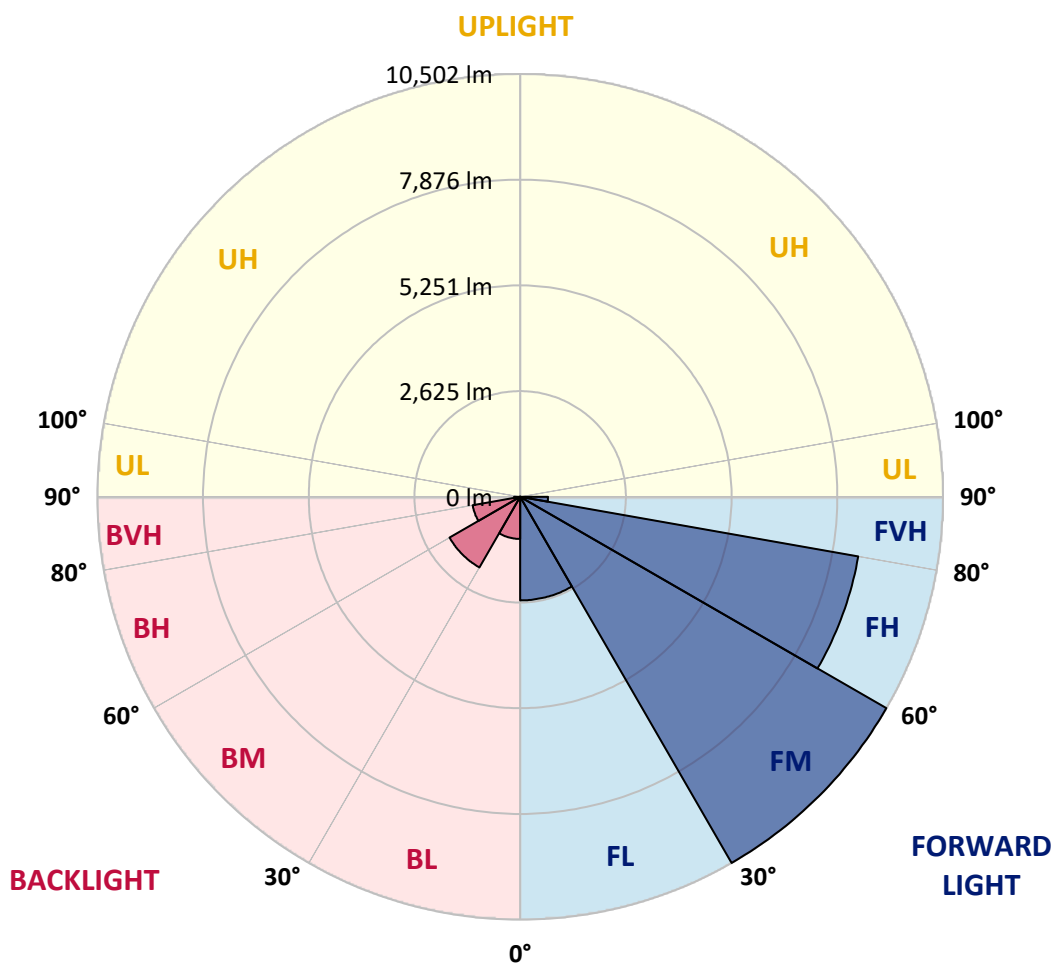
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2572.6	9.6			
FM	(30°-60°)	10501.9	39.3			
FH	(60°-80°)	8526.5	31.9			G4/12000
FVH	(80°-90°)	693.1	2.6			G4/750
BL	(0°-30°)	1045.9	3.9	B3/2500		
BM	(30°-60°)	2025.7	7.6	B2/2500		
BH	(60°-80°)	1198.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	150.9	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8
2.5°	9378.2	9528.0	9820.2	10039.1	10304.9	10366.5	10451.7	10368.0	10219.7	10022.9	9958.3
5°	8818.7	9138.9	9848.2	10472.3	11027.4	11285.8	11357.8	11144.9	10714.6	10149.2	9804.1
7.5°	7921.4	8376.7	9337.1	10256.3	11074.4	11557.6	11545.8	11050.9	10259.3	9338.6	8784.9
10°	7147.5	7667.4	8768.7	9796.7	10664.7	11133.2	10952.4	10319.5	9375.3	8314.9	7714.4
12.5°	6714.2	7223.7	8341.4	9373.8	10099.3	10260.9	10122.8	9503.1	8613.1	7541.1	7015.3
15°	6639.3	7198.9	8171.1	9011.0	9417.8	9276.8	9112.4	8834.8	8206.4	7291.4	6743.6
17.5°	6963.8	7580.7	8366.4	8758.4	8689.5	8444.2	8397.2	8428.0	8276.8	7568.9	6937.4
20°	7586.5	8326.7	8831.9	8639.5	8135.8	7798.1	7809.8	8281.2	8729.2	8272.3	7551.4
22.5°	8460.4	9304.7	9503.1	8702.7	7902.2	7501.4	7598.3	8361.9	9450.2	9300.3	8379.6
25°	9591.1	10360.7	10218.3	8931.7	7925.7	7538.2	7615.9	8641.0	10301.9	10328.4	9404.6
27.5°	10686.6	11400.4	10818.9	9235.8	8022.7	7624.7	7727.6	9080.1	11115.5	11444.5	10576.6
30°	11541.4	12037.7	11056.8	9513.3	8213.7	7793.7	7921.4	9497.2	11485.6	12197.8	11478.2
32.5°	12249.3	12606.2	11435.6	9857.0	8564.7	8059.4	8284.1	10003.8	12018.6	12914.6	12360.8
35°	13153.8	13255.3	11907.1	10240.3	9106.5	8522.0	8801.1	10500.2	12526.8	13638.5	13230.2
37.5°	14214.2	14083.5	12352.1	10764.6	9807.0	9246.1	9476.6	11045.0	12945.4	14459.5	14118.7
40°	15262.8	14948.5	12910.1	11578.1	10829.1	10099.3	10372.4	11626.6	13335.9	15281.8	14986.6
42.5°	16154.1	15688.6	13460.8	12472.5	11780.8	11040.6	11366.7	12212.6	13709.0	15983.7	15740.0
45°	16813.5	16235.0	13985.0	13331.6	13092.2	12291.8	12446.0	12883.7	14112.8	16569.7	16359.7
47.5°	17402.4	16784.2	14578.4	14198.0	14239.1	13919.0	13670.8	13664.9	14588.7	17048.5	16945.7
50°	18191.0	17546.4	15215.8	15090.9	15960.3	15747.3	15199.6	14577.0	15190.8	17591.9	17580.2
52.5°	19277.8	18753.5	15994.0	16052.8	17566.9	17706.4	17027.9	15672.4	16133.6	18589.1	18518.6
55°	20562.7	20257.3	17054.4	17158.6	19537.7	19637.6	18963.5	17042.6	17519.9	20032.5	19837.3
57.5°	21565.8	21501.1	18217.5	18486.2	21009.3	21458.6	20838.8	18628.7	19082.4	21248.5	20758.0
60°	21965.3	22278.1	19455.5	19825.5	22370.5	22868.4	22325.1	20022.3	20467.3	21752.3	20694.9
62.5°	21749.3	22448.4	20774.2	20743.4	22674.6	23210.6	22828.7	20797.7	21493.8	21232.5	19647.9
65°	20752.1	21836.0	21539.4	20507.0	21634.8	21678.9	21555.5	20451.1	21736.1	19589.1	17624.2
67.5°	18580.2	20139.8	20531.9	18480.3	18829.8	18543.5	18336.4	18553.8	20473.2	17126.3	14811.8
70°	15133.5	17480.3	17668.2	14781.0	14622.3	14430.1	14017.4	15211.3	17981.1	14036.4	11752.9
72.5°	11127.3	13594.5	14171.6	10840.9	10106.6	10146.3	9820.2	11463.6	14619.6	10426.7	8774.6
75°	7612.9	9843.7	11087.6	7564.6	6683.4	6699.6	6658.5	8122.6	11644.2	7253.1	6565.9
77.5°	5561.4	7032.9	8361.9	5085.6	4937.3	4846.2	4824.3	5683.3	8927.3	5266.3	5098.8
80°	4462.9	5195.8	5617.2	3524.6	3790.3	3783.0	3661.2	3907.8	5830.2	3852.1	3813.8
82.5°	3095.8	3993.0	4551.0	2762.4	2558.2	2515.7	2544.9	2910.6	4120.8	2633.1	2503.9
85°	1633.0	2652.3	4507.1	2448.1	1518.4	1211.5	1506.8	2383.5	3570.0	1395.1	1221.8
87.5°	208.5	766.6	2984.1	976.6	599.2	323.1	715.2	1342.2	2292.4	284.9	248.2
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°	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8
2.5°	9792.4	9597.0	9341.4	9105.0	8859.9	8616.0	8297.3	8097.6	7959.5	7933.2	7874.5
5°	9554.4	8905.2	8414.8	7990.4	7605.6	7062.3	6761.3	6511.7	6377.9	6364.7	6332.4
7.5°	8457.4	7561.7	6899.2	6298.7	5753.8	5314.7	4830.2	4603.9	4511.5	4533.3	4555.4
10°	7316.3	6314.7	5554.0	4940.2	4460.0	4089.9	3700.7	3437.9	3255.8	3219.1	3211.7
12.5°	6482.3	5383.8	4645.0	4211.8	3840.3	3492.3	3079.6	2769.7	2533.2	2452.6	2398.1
15°	6129.8	4928.4	4154.6	3687.5	3277.8	2835.9	2452.6	2128.0	1910.6	1840.2	1800.5
17.5°	6204.7	4802.2	3816.8	3219.1	2694.8	2233.7	1750.6	1473.0	1342.2	1308.5	1308.5
20°	6598.2	4778.7	3537.7	2787.3	2133.9	1599.2	1202.7	1044.2	1001.6	997.1	1008.9
22.5°	7150.4	4861.0	3329.2	2412.9	1658.0	1167.6	936.9	878.2	859.1	863.4	876.7
25°	7972.7	5138.5	3178.0	2079.5	1301.2	956.0	835.7	800.4	791.6	803.3	819.5
27.5°	8947.9	5416.1	3084.0	1828.4	1098.5	873.7	794.6	757.8	763.6	778.4	793.0
30°	9804.1	5643.7	2935.7	1649.2	1035.3	878.2	794.6	744.6	738.7	741.7	746.0
32.5°	10572.2	5797.9	2762.4	1478.9	892.8	779.8	741.7	734.3	702.0	690.2	691.7
35°	11234.5	5797.9	2658.1	1379.0	800.4	691.7	630.0	593.3	577.1	578.6	594.8
37.5°	11873.3	5681.8	2606.7	1323.1	750.4	658.0	603.5	571.3	549.2	544.8	547.8
40°	12437.2	5513.0	2547.9	1299.6	712.3	637.3	585.9	559.5	536.0	528.7	530.1
42.5°	12889.6	5376.4	2483.4	1268.8	688.8	622.7	574.1	550.6	524.2	516.9	515.4
45°	13378.6	5330.9	2398.1	1207.2	700.5	624.1	571.3	546.3	519.8	511.0	508.2
47.5°	14023.3	5473.4	2310.1	1133.7	725.5	631.5	575.7	546.3	518.4	511.0	508.2
50°	14835.3	5808.1	2198.4	1026.5	700.5	652.1	574.1	541.9	518.4	511.0	505.3
52.5°	15878.1	6260.4	2051.6	903.1	685.8	702.0	571.3	533.0	511.0	500.7	490.5
55°	17145.4	6630.5	1876.8	801.9	652.1	688.8	566.8	522.8	499.4	484.7	475.9
57.5°	18073.5	6764.1	1652.1	735.8	605.1	666.7	560.9	509.5	484.7	472.9	461.1
60°	17890.0	6505.8	1462.7	694.7	577.1	602.1	556.5	497.9	471.5	462.6	452.4
62.5°	16419.9	5830.2	1340.8	675.6	559.5	549.2	560.9	486.1	459.7	450.8	448.0
65°	14215.6	4833.0	1292.3	671.2	544.8	518.4	521.3	472.9	446.5	439.1	436.2
67.5°	11726.5	3900.4	1249.7	685.8	525.7	496.4	481.8	455.3	433.2	425.9	420.0
70°	9247.4	3244.0	1230.7	677.0	502.3	474.3	458.3	436.2	417.1	409.7	405.4
72.5°	7447.1	2740.3	1220.4	668.2	471.5	445.0	430.3	411.2	390.6	387.7	383.3
75°	6301.6	2154.4	1117.6	640.3	436.2	409.7	399.5	381.9	361.2	361.2	358.4
77.5°	4861.0	1558.1	929.6	566.8	399.5	370.1	361.2	348.1	324.5	329.0	327.4
80°	3590.6	1016.2	726.9	470.0	353.9	326.0	321.7	308.4	283.4	289.3	289.3
82.5°	2459.9	666.7	522.8	384.8	302.5	276.1	276.1	262.9	235.0	237.8	246.7
85°	1235.0	458.3	390.6	298.2	235.0	221.8	221.8	211.5	183.5	185.0	196.7
87.5°	376.0	276.1	258.5	212.9	169.0	166.0	158.7	151.3	133.7	132.2	139.6
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°	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8
2.5°	7784.8	7701.1	7599.7	7376.5	7301.7	7297.3	7364.8	7294.3	7429.4	7372.2	7435.3
5°	6278.0	6195.9	6082.8	5797.9	5624.5	5507.1	5451.3	5286.8	5405.7	5319.1	5391.1
7.5°	4617.2	4636.2	4561.3	4394.0	4016.5	3827.1	3715.5	3615.6	3702.2	3693.4	3831.5
10°	3245.5	3296.9	3244.0	3075.2	2769.7	2665.4	2686.0	2725.7	2838.8	2897.4	3110.4
12.5°	2336.5	2333.6	2299.8	2148.5	1947.3	1959.0	2042.7	2111.8	2216.1	2277.7	2495.1
15°	1744.7	1718.2	1703.6	1580.2	1465.6	1490.7	1531.7	1539.0	1605.1	1641.8	1818.1
17.5°	1318.8	1332.0	1348.1	1260.0	1173.3	1157.3	1125.0	1085.3	1104.4	1111.7	1199.7
20°	1047.0	1099.9	1139.6	1078.0	989.8	942.8	901.7	875.2	875.2	873.7	898.7
22.5°	914.9	953.1	995.7	953.1	873.7	832.7	809.2	788.7	785.7	785.7	809.2
25°	842.9	870.9	912.0	882.6	823.9	793.0	771.1	744.6	734.3	731.4	747.5
27.5°	807.8	819.5	839.9	813.6	763.6	749.0	743.1	719.6	706.4	699.0	715.2
30°	747.5	744.6	746.0	719.6	679.9	678.5	688.8	693.1	688.8	687.2	712.3
32.5°	691.7	685.8	684.4	660.8	624.1	615.3	624.1	632.9	643.2	658.0	687.2
35°	621.2	635.9	644.7	624.1	580.0	553.6	543.3	527.1	518.4	518.4	552.2
37.5°	565.4	599.2	612.4	593.3	544.8	508.2	490.5	487.6	489.1	495.0	527.1
40°	546.3	571.3	583.0	563.9	515.4	481.8	471.5	468.5	471.5	480.2	512.5
42.5°	534.6	552.2	550.6	527.1	487.6	464.1	458.3	455.3	458.3	467.0	502.3
45°	524.2	536.0	524.2	496.4	459.7	448.0	449.4	448.0	450.8	459.7	493.5
47.5°	515.4	519.8	505.3	477.3	439.1	436.2	442.1	446.5	449.4	456.7	492.0
50°	502.3	502.3	489.1	459.7	421.5	423.0	430.3	440.6	442.1	450.8	478.8
52.5°	486.1	484.7	475.9	448.0	406.8	411.2	411.2	423.0	425.9	436.2	465.6
55°	472.9	470.0	465.6	439.1	393.6	400.9	396.5	400.9	408.3	418.6	450.8
57.5°	461.1	455.3	455.3	431.8	383.3	386.2	376.0	381.9	390.6	399.5	433.2
60°	449.4	443.5	446.5	421.5	367.1	364.2	359.8	371.6	374.4	384.8	418.6
62.5°	436.2	431.8	433.2	409.7	355.4	348.1	348.1	358.4	359.8	374.4	406.8
65°	425.9	420.0	418.6	398.0	342.2	333.3	337.7	342.2	345.2	359.8	390.6
67.5°	415.6	403.8	403.8	387.7	327.4	318.7	327.4	326.0	330.4	343.6	368.6
70°	402.4	386.2	387.7	380.3	312.8	302.5	309.9	308.4	311.4	320.1	345.2
72.5°	381.9	368.6	371.6	368.6	298.2	283.4	286.4	286.4	286.4	293.7	320.1
75°	355.4	345.2	353.9	361.2	280.5	259.9	262.9	262.9	258.5	262.9	295.2
77.5°	323.1	317.2	346.6	336.3	259.9	235.0	235.0	232.0	223.2	229.1	264.3
80°	287.8	283.4	320.1	282.0	236.4	204.1	201.1	193.8	185.0	189.4	224.6
82.5°	251.1	246.7	268.8	215.9	204.1	169.0	161.6	148.4	139.6	143.9	176.2
85°	205.6	205.6	207.0	163.1	155.7	129.3	120.4	102.8	92.6	95.5	126.3
87.5°	146.9	151.3	139.6	111.7	92.6	72.0	66.1	55.8	47.0	54.3	66.1
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8
2.5°	7758.4	7919.9	8103.5	8338.4	8539.7	8870.1	9187.3	9378.2
5°	5800.8	6069.6	6404.3	6834.7	7235.5	7837.7	8435.4	8818.7
7.5°	4151.7	4439.4	4800.8	5338.2	5905.0	6673.1	7463.2	7921.4
10°	3435.0	3730.1	4034.2	4396.8	4861.0	5696.6	6630.5	7147.5
12.5°	2841.7	3157.4	3485.0	3866.6	4296.9	5043.1	6119.5	6714.2
15°	2175.0	2527.3	2913.6	3396.8	3935.7	4797.8	5993.2	6639.3
17.5°	1490.7	1884.1	2358.5	2954.7	3614.1	4718.5	6219.4	6963.8
20°	1026.5	1312.9	1819.5	2518.5	3311.6	4708.2	6654.0	7586.5
22.5°	859.1	986.8	1357.0	2117.7	3084.0	4834.5	7328.1	8460.4
25°	794.6	870.9	1083.8	1769.6	2918.0	5125.3	8256.2	9591.1
27.5°	756.3	825.4	983.9	1541.9	2787.3	5463.1	9159.4	10686.6
30°	771.1	841.6	956.0	1426.0	2609.6	5745.0	9961.2	11541.4
32.5°	694.7	725.5	819.5	1323.1	2481.9	5981.4	10663.1	12249.3
35°	591.8	646.2	731.4	1274.7	2484.8	6140.1	11428.3	13153.8
37.5°	563.9	618.3	679.9	1257.1	2518.5	6308.9	12306.5	14214.2
40°	546.3	596.2	649.1	1246.7	2550.8	6463.1	13167.1	15262.8
42.5°	534.6	580.0	646.2	1211.5	2567.0	6601.1	13875.0	16154.1
45°	533.0	580.0	658.0	1176.2	2591.9	6749.5	14468.2	16813.5
47.5°	534.6	599.2	635.9	1133.7	2591.9	6997.7	15164.3	17402.4
50°	528.7	631.5	612.4	1073.5	2531.7	7467.7	16118.9	18191.0
52.5°	525.7	627.0	566.8	981.0	2427.5	8213.7	17342.1	19277.8
55°	518.4	605.1	534.6	842.9	2305.6	9027.2	18652.2	20562.7
57.5°	511.0	536.0	516.9	722.5	2117.7	9599.9	19553.8	21565.8
60°	572.7	468.5	502.3	663.8	1866.5	9757.1	19518.6	21965.3
62.5°	530.1	439.1	483.2	650.5	1690.4	9316.5	18616.9	21749.3
65°	415.6	420.0	464.1	688.8	1643.4	8149.0	17019.1	20752.1
67.5°	380.3	400.9	445.0	737.2	1647.7	6524.9	14631.2	18580.2
70°	358.4	380.3	423.0	762.2	1659.4	4863.9	11567.9	15133.5
72.5°	333.3	352.5	398.0	766.6	1583.0	3533.3	8915.7	11127.3
75°	304.0	321.7	362.7	668.2	1311.4	2451.0	6820.0	7612.9
77.5°	270.2	283.4	318.7	515.4	973.6	1568.4	5119.4	5561.4
80°	230.5	237.8	267.2	377.4	666.7	981.0	4050.2	4462.9
82.5°	185.0	187.9	207.0	283.4	433.2	630.0	2712.5	3095.8
85°	130.7	130.7	142.5	205.6	295.2	399.5	1473.0	1633.0
87.5°	61.7	63.2	63.2	113.1	154.2	202.6	339.2	208.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)