

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: P193026

Luminaire Tested: **GLEON-AF-08-LED-E1-SLL-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193026
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-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA 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: 32759.2 lumens
Efficiency: N/A
Efficacy: 98.1 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): 334
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



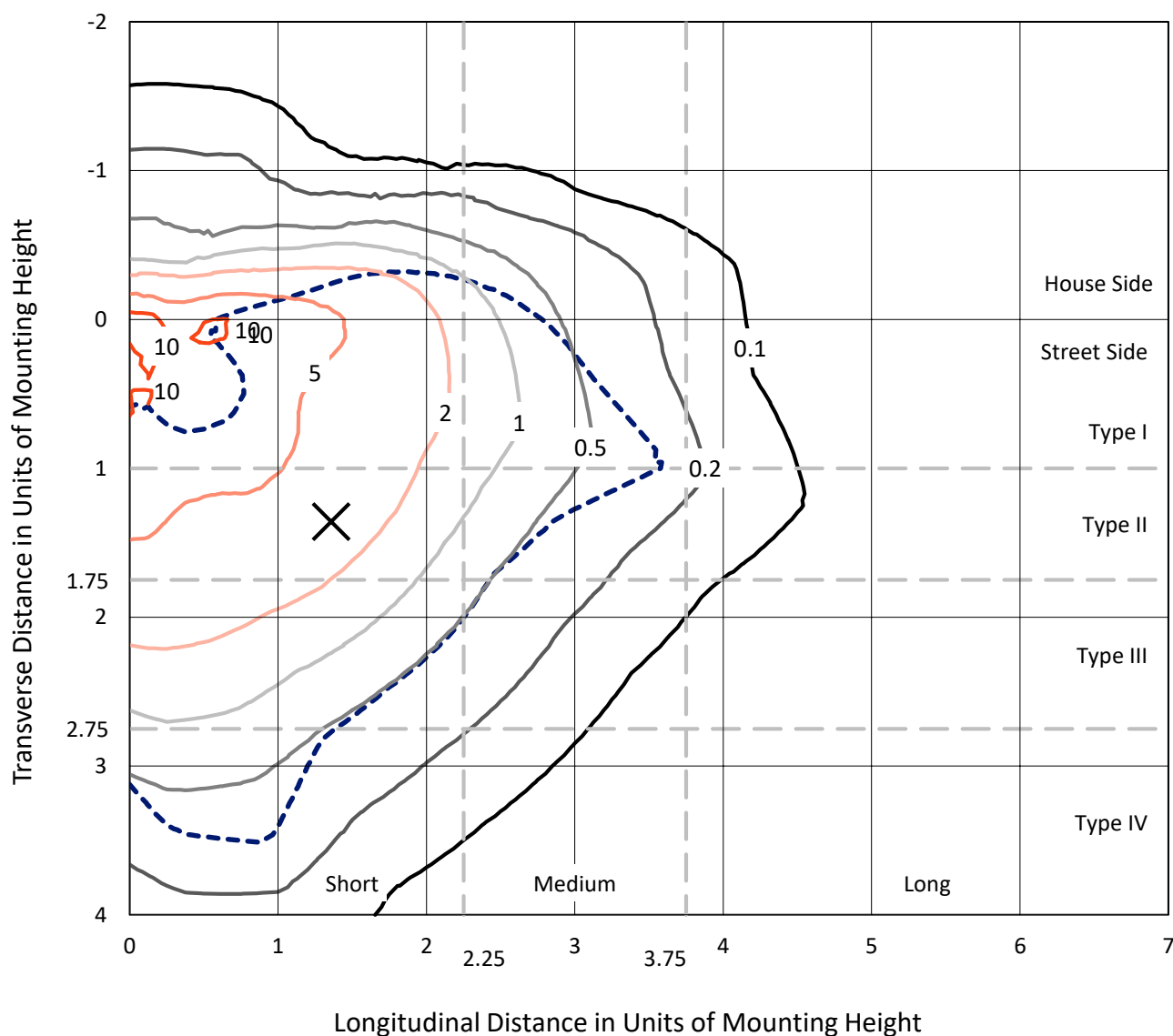
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

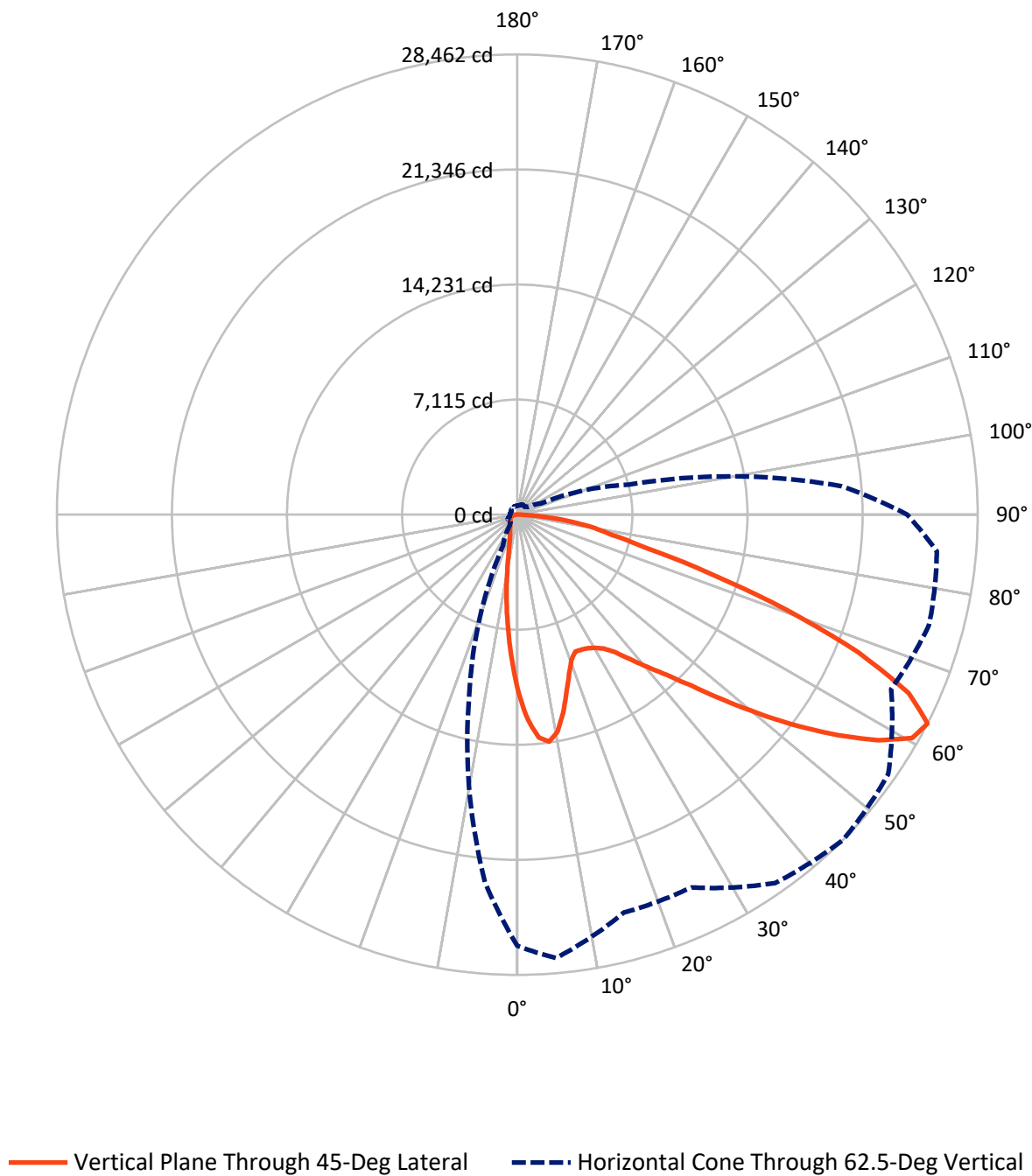


Based on 30 foot mounting height. Maximum calculated value = 14.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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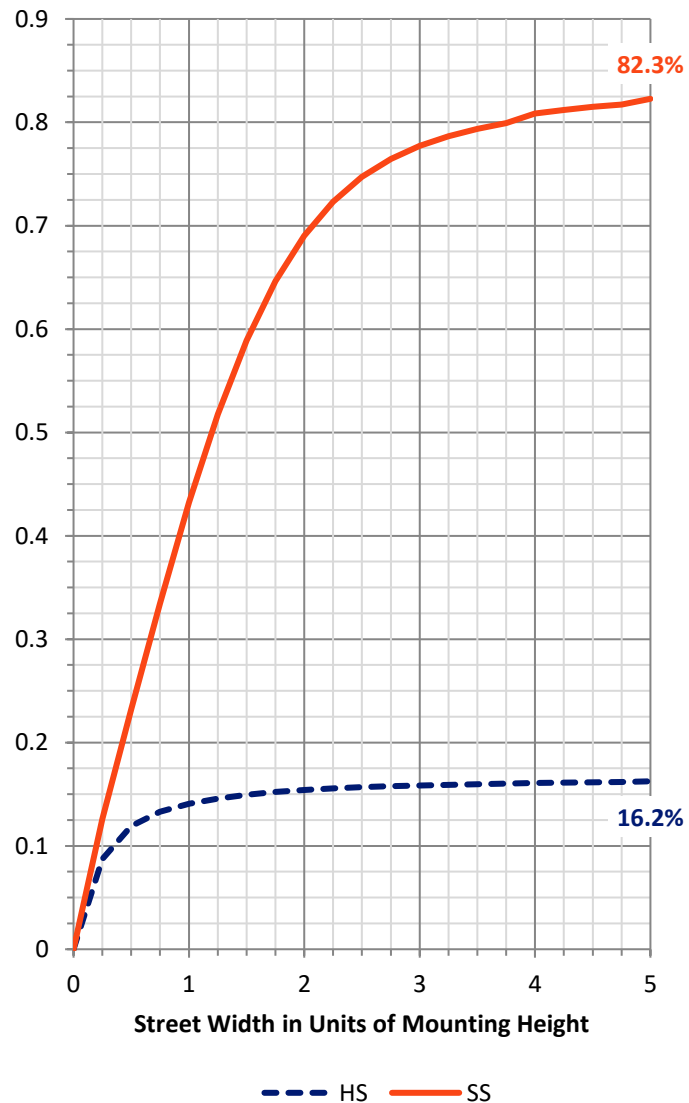
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5421.2	0.0	5421.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	27338.0	0.0	27338.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	32759.2	0.0	32759.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	805.7	2.5
10°-20°	1477.4	4.5
20°-30°	2154.1	6.6
30°-40°	3317.6	10.1
40°-50°	4882.6	14.9
50°-60°	7161.7	21.9
60°-70°	8005.8	24.4
70°-80°	3919.5	12.0
80°-90°	1034.9	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°	32759.2	100.0
0°-180°	32759.2	100.0

Coefficient of Utilization



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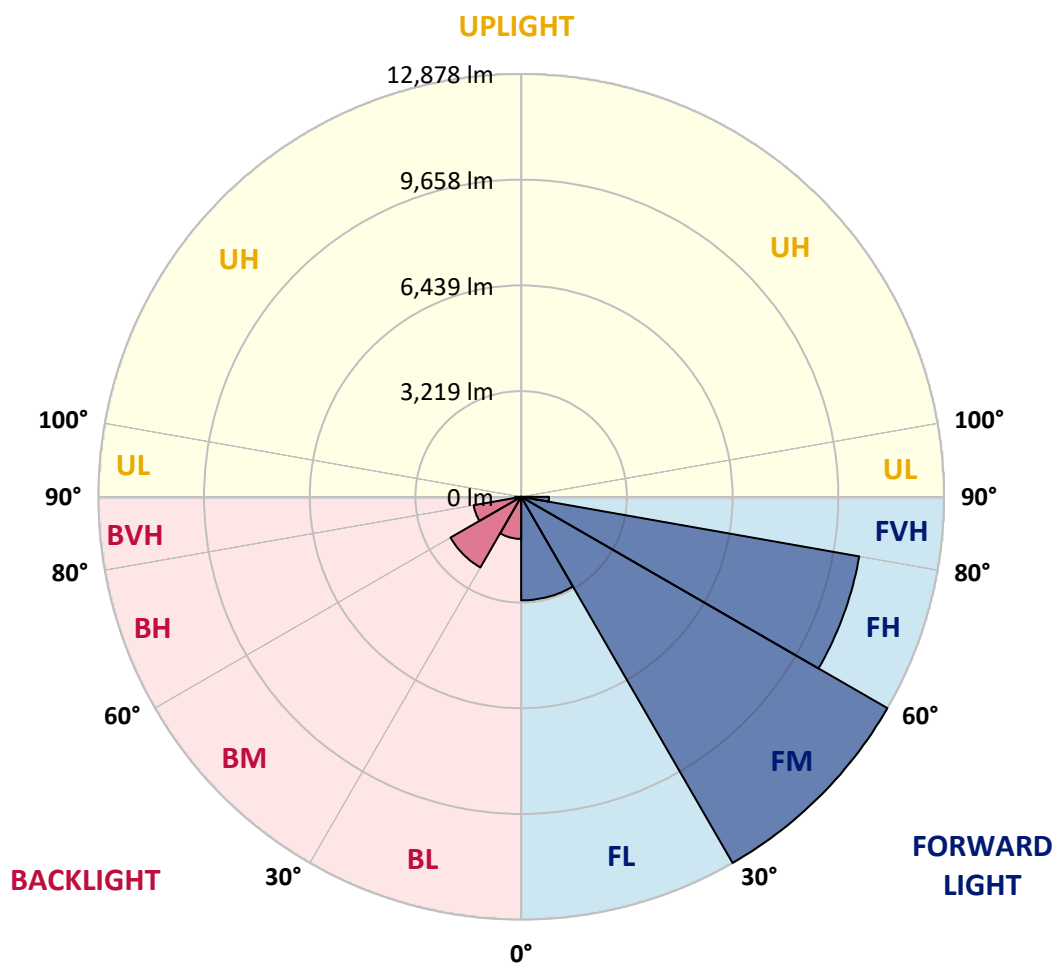
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3154.6	9.6			
FM	(30°-60°)	12877.9	39.3			
FH	(60°-80°)	10455.6	31.9			G4/12000
FVH	(80°-90°)	849.9	2.6			G5
BL	(0°-30°)	1282.6	3.9	B3/2500		
BM	(30°-60°)	2484.0	7.6	B2/2500		
BH	(60°-80°)	1469.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	185.0	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9
2.5°	11500.0	11683.7	12042.1	12310.4	12636.4	12712.0	12816.4	12713.7	12531.9	12290.6	12211.4
5°	10813.9	11206.5	12076.3	12841.7	13522.4	13839.4	13927.5	13666.3	13138.8	12445.4	12022.3
7.5°	9713.5	10271.9	11449.6	12577.0	13580.0	14172.4	14158.1	13551.1	12580.5	11451.4	10772.5
10°	8764.6	9402.1	10752.6	12013.3	13077.6	13652.0	13430.4	12654.3	11496.4	10196.2	9459.6
12.5°	8233.3	8858.2	10228.7	11494.6	12384.2	12582.3	12413.1	11653.0	10561.8	9247.1	8602.5
15°	8141.5	8827.6	10019.7	11049.8	11548.6	11375.7	11174.1	10833.7	10063.0	8941.0	8269.4
17.5°	8539.4	9295.8	10259.2	10740.0	10655.4	10354.7	10297.0	10335.0	10149.4	9281.5	8507.0
20°	9303.0	10210.6	10830.1	10594.3	9976.6	9562.4	9576.8	10154.8	10704.0	10143.9	9259.8
22.5°	10374.5	11410.0	11653.0	10671.7	9690.2	9198.5	9317.4	10253.9	11588.2	11404.6	10275.5
25°	11761.1	12704.7	12530.1	10952.5	9719.0	9243.6	9339.1	10596.0	12632.8	12665.2	11532.5
27.5°	13104.5	13979.7	13266.6	11325.4	9837.8	9349.9	9475.9	11134.5	13630.4	14033.8	12969.5
30°	14152.6	14761.3	13558.3	11665.7	10071.9	9556.9	9713.5	11645.8	14084.2	14957.6	14075.3
32.5°	15020.6	15458.2	14023.0	12087.2	10502.3	9882.9	10158.4	12267.2	14737.9	15836.4	15157.4
35°	16130.0	16254.2	14601.1	12557.0	11166.9	10450.1	10792.3	12875.8	15361.0	16724.2	16223.6
37.5°	17430.1	17269.8	15146.7	13199.9	12025.8	11338.0	11620.7	13544.0	15874.2	17730.8	17313.1
40°	18715.9	18330.5	15831.0	14197.7	13279.3	12384.2	12719.2	14257.0	16353.3	18739.3	18377.3
42.5°	19809.0	19238.2	16506.4	15294.3	14446.1	13538.6	13938.3	14975.6	16810.6	19600.1	19301.2
45°	20617.5	19908.0	17149.3	16347.8	16054.3	15072.9	15261.9	15798.6	17305.9	20318.6	20061.1
47.5°	21339.7	20581.5	17876.7	17410.4	17460.7	17068.2	16763.7	16756.6	17889.3	20905.6	20779.6
50°	22306.7	21516.2	18658.3	18505.2	19571.3	19310.2	18638.4	17875.0	18627.6	21572.0	21557.6
52.5°	23639.4	22996.5	19612.7	19684.7	21541.3	21712.4	20880.4	19218.3	19783.8	22794.8	22708.3
55°	25215.1	24840.5	20912.9	21040.7	23958.1	24080.5	23253.9	20898.4	21483.7	24565.0	24325.5
57.5°	26445.0	26365.8	22339.1	22668.7	25762.5	26313.6	25553.5	22843.4	23399.8	26056.0	25454.5
60°	26934.8	27318.4	23857.2	24311.1	27431.8	28042.4	27376.0	24552.3	25098.0	26673.7	25377.1
62.5°	26670.0	27527.4	25474.4	25436.5	27804.7	28461.9	27993.8	25503.2	26356.7	26036.3	24093.1
65°	25447.3	26776.3	26412.6	25146.6	26529.7	26583.7	26432.4	25078.2	26653.9	24021.0	21611.6
67.5°	22784.0	24696.4	25177.2	22661.5	23090.1	22738.9	22485.0	22751.5	25105.1	21001.2	18163.0
70°	18557.4	21435.1	21665.7	18125.2	17930.7	17694.9	17188.7	18652.8	22049.2	17212.2	14412.0
72.5°	13644.9	16670.1	17377.9	13293.7	12393.3	12441.9	12042.1	14057.2	17927.1	12785.8	10759.9
75°	9335.4	12070.9	13596.2	9276.0	8195.5	8215.3	8165.0	9960.3	14278.6	8894.2	8051.5
77.5°	6819.8	8624.2	10253.9	6236.2	6054.4	5942.7	5915.8	6969.2	10947.1	6457.8	6252.5
80°	5472.7	6371.4	6888.1	4322.0	4647.9	4638.9	4489.5	4792.0	7149.3	4723.5	4676.8
82.5°	3796.1	4896.5	5580.8	3387.4	3137.1	3084.8	3120.8	3569.2	5053.1	3228.8	3070.4
85°	2002.5	3252.3	5526.7	3002.0	1862.0	1485.7	1847.7	2922.6	4377.8	1710.8	1498.3
87.5°	255.6	940.0	3659.3	1197.6	734.8	396.2	877.1	1646.0	2811.0	349.4	304.3
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°	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9
2.5°	12007.8	11768.4	11455.0	11165.1	10864.3	10565.4	10174.7	9929.7	9760.4	9728.0	9656.0
5°	11716.1	10920.1	10318.7	9798.3	9326.5	8660.1	8290.9	7984.7	7821.0	7804.7	7765.2
7.5°	10370.9	9272.4	8460.3	7723.7	7055.6	6517.2	5922.8	5645.5	5532.2	5559.1	5586.1
10°	8971.8	7743.5	6810.6	6058.0	5469.1	5015.3	4538.1	4215.7	3992.5	3947.4	3938.4
12.5°	7948.8	6601.8	5696.0	5164.8	4709.2	4282.3	3776.3	3396.4	3106.5	3007.4	2940.7
15°	7516.6	6043.5	5094.5	4521.8	4019.4	3477.4	3007.4	2609.4	2342.8	2256.4	2207.8
17.5°	7608.5	5888.6	4680.3	3947.4	3304.5	2739.0	2146.6	1806.3	1646.0	1604.6	1604.6
20°	8091.0	5859.9	4338.1	3417.9	2616.5	1961.1	1474.9	1280.4	1228.2	1222.7	1237.2
22.5°	8768.2	5960.7	4082.5	2958.7	2033.1	1431.7	1149.0	1076.9	1053.5	1058.8	1075.1
25°	9776.6	6301.1	3897.0	2550.0	1595.5	1172.4	1024.7	981.4	970.7	985.1	1004.8
27.5°	10972.4	6641.5	3781.7	2242.0	1347.0	1071.5	974.3	929.2	936.5	954.4	972.4
30°	12022.3	6920.6	3599.9	2022.3	1269.6	1076.9	974.3	913.0	905.8	909.4	914.8
32.5°	12964.0	7109.6	3387.4	1813.3	1094.9	956.2	909.4	900.4	860.8	846.4	848.2
35°	13776.3	7109.6	3259.5	1691.0	981.4	848.2	772.6	727.5	707.7	709.5	729.3
37.5°	14559.6	6967.4	3196.5	1622.5	920.2	806.8	740.1	700.6	673.5	668.1	671.7
40°	15251.2	6760.3	3124.4	1593.8	873.4	781.5	718.5	686.1	657.3	648.4	650.1
42.5°	15805.8	6592.8	3045.2	1555.9	844.6	763.5	704.0	675.3	642.9	633.9	632.1
45°	16405.5	6537.0	2940.7	1480.3	859.0	765.4	700.6	669.9	637.5	626.7	623.1
47.5°	17196.0	6711.7	2832.6	1390.3	889.6	774.3	706.0	669.9	635.7	626.7	623.1
50°	18191.8	7122.3	2695.9	1258.7	859.0	799.6	704.0	664.6	635.7	626.7	619.5
52.5°	19470.4	7676.9	2515.7	1107.5	841.0	860.8	700.6	653.7	626.7	614.0	601.5
55°	21024.5	8130.6	2301.4	983.3	799.6	844.6	695.1	641.2	612.3	594.3	583.5
57.5°	22162.7	8294.5	2025.8	902.3	742.0	817.6	687.9	624.9	594.3	579.8	565.4
60°	21937.5	7977.7	1793.6	851.7	707.7	738.4	682.6	610.4	578.1	567.3	554.6
62.5°	20135.0	7149.3	1644.2	828.4	686.1	673.5	687.9	596.1	563.7	552.9	549.2
65°	17431.9	5926.4	1584.7	822.9	668.1	635.7	639.2	579.8	547.5	538.4	534.9
67.5°	14379.5	4783.0	1532.5	841.0	644.7	608.7	590.6	558.2	531.2	522.3	515.0
70°	11339.8	3978.0	1509.1	830.2	615.9	581.7	561.8	534.9	511.5	502.4	497.0
72.5°	9132.0	3360.4	1496.6	819.3	578.1	545.6	527.6	504.2	479.0	475.4	470.1
75°	7727.4	2641.8	1370.4	785.1	534.9	502.4	489.8	468.1	443.0	443.0	439.4
77.5°	5960.7	1910.6	1139.9	695.1	489.8	453.8	443.0	426.7	398.0	403.3	401.5
80°	4403.0	1246.2	891.4	576.3	434.0	399.8	394.4	378.1	347.6	354.8	354.8
82.5°	3016.3	817.6	641.2	471.8	370.9	338.6	338.6	322.4	288.1	291.7	302.5
85°	1514.5	561.8	479.0	365.6	288.1	271.9	271.9	259.3	225.1	226.9	241.4
87.5°	461.0	338.6	317.0	261.1	207.0	203.4	194.5	185.5	163.9	162.0	171.1
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9
2.5°	9546.1	9443.5	9319.3	9045.5	8953.7	8948.3	9031.2	8944.6	9110.4	9040.1	9117.5
5°	7698.5	7597.7	7459.0	7109.6	6897.1	6753.1	6684.6	6482.9	6628.8	6522.6	6610.8
7.5°	5661.9	5685.2	5593.3	5388.0	4925.2	4692.9	4556.1	4433.6	4539.8	4529.1	4698.3
10°	3979.8	4042.8	3978.0	3770.9	3396.4	3268.5	3293.7	3342.3	3481.0	3553.0	3814.1
12.5°	2865.1	2861.5	2820.1	2634.6	2387.9	2402.3	2505.0	2589.6	2717.4	2793.1	3059.6
15°	2139.4	2106.9	2088.9	1937.7	1797.2	1827.8	1878.2	1887.2	1968.3	2013.3	2229.4
17.5°	1617.1	1633.3	1653.2	1545.2	1438.8	1419.1	1379.4	1330.8	1354.3	1363.2	1471.2
20°	1284.1	1348.8	1397.4	1321.8	1213.8	1156.1	1105.7	1073.3	1073.3	1071.5	1102.1
22.5°	1121.9	1168.7	1221.0	1168.7	1071.5	1021.0	992.3	967.1	963.4	963.4	992.3
25°	1033.7	1067.9	1118.3	1082.3	1010.2	972.4	945.4	913.0	900.4	896.8	916.5
27.5°	990.4	1004.8	1030.1	997.6	936.5	918.5	911.2	882.4	866.2	857.1	877.1
30°	916.5	913.0	914.8	882.4	833.7	832.0	844.6	850.0	844.6	842.8	873.4
32.5°	848.2	841.0	839.2	810.3	765.4	754.6	765.4	776.2	788.8	806.8	842.8
35°	761.7	779.8	790.6	765.4	711.3	678.9	666.3	646.5	635.7	635.7	677.1
37.5°	693.4	734.8	750.9	727.5	668.1	623.1	601.5	597.8	599.8	606.8	646.5
40°	669.9	700.6	714.9	691.5	632.1	590.6	578.1	574.4	578.1	588.9	628.5
42.5°	655.4	677.1	675.3	646.5	597.8	569.0	561.8	558.2	561.8	572.6	615.9
45°	642.9	657.3	642.9	608.7	563.7	549.2	551.1	549.2	552.9	563.7	605.1
47.5°	632.1	637.5	619.5	585.3	538.4	534.9	542.0	547.5	551.1	560.1	603.2
50°	615.9	615.9	599.8	563.7	516.8	518.7	527.6	540.3	542.0	552.9	587.0
52.5°	596.1	594.3	583.5	549.2	498.9	504.2	504.2	518.7	522.3	534.9	570.9
55°	579.8	576.3	570.9	538.4	482.6	491.6	486.2	491.6	500.6	513.2	552.9
57.5°	565.4	558.2	558.2	529.5	470.1	473.6	461.0	468.1	479.0	489.8	531.2
60°	551.1	543.9	547.5	516.8	450.2	446.7	441.2	455.6	459.2	471.8	513.2
62.5°	534.9	529.5	531.2	502.4	435.8	426.7	426.7	439.4	441.2	459.2	498.9
65°	522.3	515.0	513.2	488.1	419.5	408.7	414.2	419.5	423.2	441.2	479.0
67.5°	509.5	495.3	495.3	475.4	401.5	390.8	401.5	399.8	405.2	421.4	452.0
70°	493.5	473.6	475.4	466.4	383.6	370.9	380.0	378.1	381.8	392.6	423.2
72.5°	468.1	452.0	455.6	452.0	365.6	347.6	351.2	351.2	351.2	360.1	392.6
75°	435.8	423.2	434.0	443.0	343.9	318.7	322.4	322.4	317.0	322.4	361.9
77.5°	396.2	389.0	425.0	412.4	318.7	288.1	288.1	284.5	273.7	280.9	324.2
80°	352.9	347.6	392.6	345.8	290.0	250.3	246.7	237.7	226.9	232.2	275.6
82.5°	307.9	302.5	329.5	264.7	250.3	207.0	198.1	181.9	171.1	176.5	216.2
85°	252.1	252.1	253.9	200.0	190.8	158.4	147.7	126.0	113.4	117.0	154.8
87.5°	180.1	185.5	171.1	136.9	113.4	88.3	81.1	68.4	57.6	66.6	81.1
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°	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9
2.5°	9513.8	9711.8	9936.9	10225.0	10471.7	10877.0	11265.9	11500.0
5°	7113.3	7442.7	7853.3	8380.9	8872.6	9611.0	10343.9	10813.9
7.5°	5090.9	5443.9	5886.9	6545.9	7241.0	8182.9	9151.8	9713.5
10°	4212.2	4574.0	4946.8	5391.6	5960.7	6985.4	8130.6	8764.6
12.5°	3484.6	3871.7	4273.3	4741.6	5269.2	6184.0	7504.0	8233.3
15°	2667.0	3099.2	3572.8	4165.3	4826.2	5883.3	7349.1	8141.5
17.5°	1827.8	2310.4	2892.1	3623.2	4431.8	5786.1	7626.6	8539.4
20°	1258.7	1609.9	2231.2	3088.4	4060.8	5773.4	8159.5	9303.0
22.5°	1053.5	1210.1	1663.9	2596.8	3781.7	5928.3	8986.0	10374.5
25°	974.3	1067.9	1329.0	2170.0	3578.2	6284.8	10124.2	11761.1
27.5°	927.4	1012.1	1206.5	1890.8	3417.9	6699.0	11231.8	13104.5
30°	945.4	1031.9	1172.4	1748.5	3200.1	7044.8	12214.9	14152.6
32.5°	851.7	889.6	1004.8	1622.5	3043.4	7334.7	13075.7	15020.6
35°	725.7	792.3	896.8	1563.1	3047.0	7529.2	14013.9	16130.0
37.5°	691.5	758.1	833.7	1541.5	3088.4	7736.3	15090.9	17430.1
40°	669.9	731.2	796.0	1528.9	3128.0	7925.4	16146.2	18715.9
42.5°	655.4	711.3	792.3	1485.7	3147.9	8094.7	17014.1	19809.0
45°	653.7	711.3	806.8	1442.4	3178.5	8276.6	17741.6	20617.5
47.5°	655.4	734.8	779.8	1390.3	3178.5	8580.9	18595.3	21339.7
50°	648.4	774.3	750.9	1316.3	3104.6	9157.1	19765.8	22306.7
52.5°	644.7	768.9	695.1	1203.0	2976.8	10071.9	21265.9	23639.4
55°	635.7	742.0	655.4	1033.7	2827.3	11069.6	22872.3	25215.1
57.5°	626.7	657.3	633.9	886.0	2596.8	11771.9	23977.9	26445.0
60°	702.3	574.4	615.9	814.0	2288.9	11964.7	23934.7	26934.8
62.5°	650.1	538.4	592.5	797.8	2072.7	11424.3	22828.9	26670.0
65°	509.5	515.0	569.0	844.6	2015.1	9992.8	20869.7	25447.3
67.5°	466.4	491.6	545.6	904.0	2020.5	8001.0	17941.6	22784.0
70°	439.4	466.4	518.7	934.6	2035.0	5964.4	14185.0	18557.4
72.5°	408.7	432.2	488.1	940.0	1941.3	4332.7	10932.8	13644.9
75°	372.8	394.4	444.8	819.3	1608.1	3005.6	8363.0	9335.4
77.5°	331.4	347.6	390.8	632.1	1193.9	1923.3	6277.6	6819.8
80°	282.8	291.7	327.8	462.8	817.6	1203.0	4966.7	5472.7
82.5°	226.9	230.5	253.9	347.6	531.2	772.6	3326.1	3796.1
85°	160.3	160.3	174.7	252.1	361.9	489.8	1806.3	2002.5
87.5°	75.6	77.5	77.5	138.6	189.1	248.6	415.9	255.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)