

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: P193030

Luminaire Tested: **GLEON-AF-02-LED-E1-SLL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193030
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-02-LED-E1-SLL-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 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: 10351.2 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 113
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



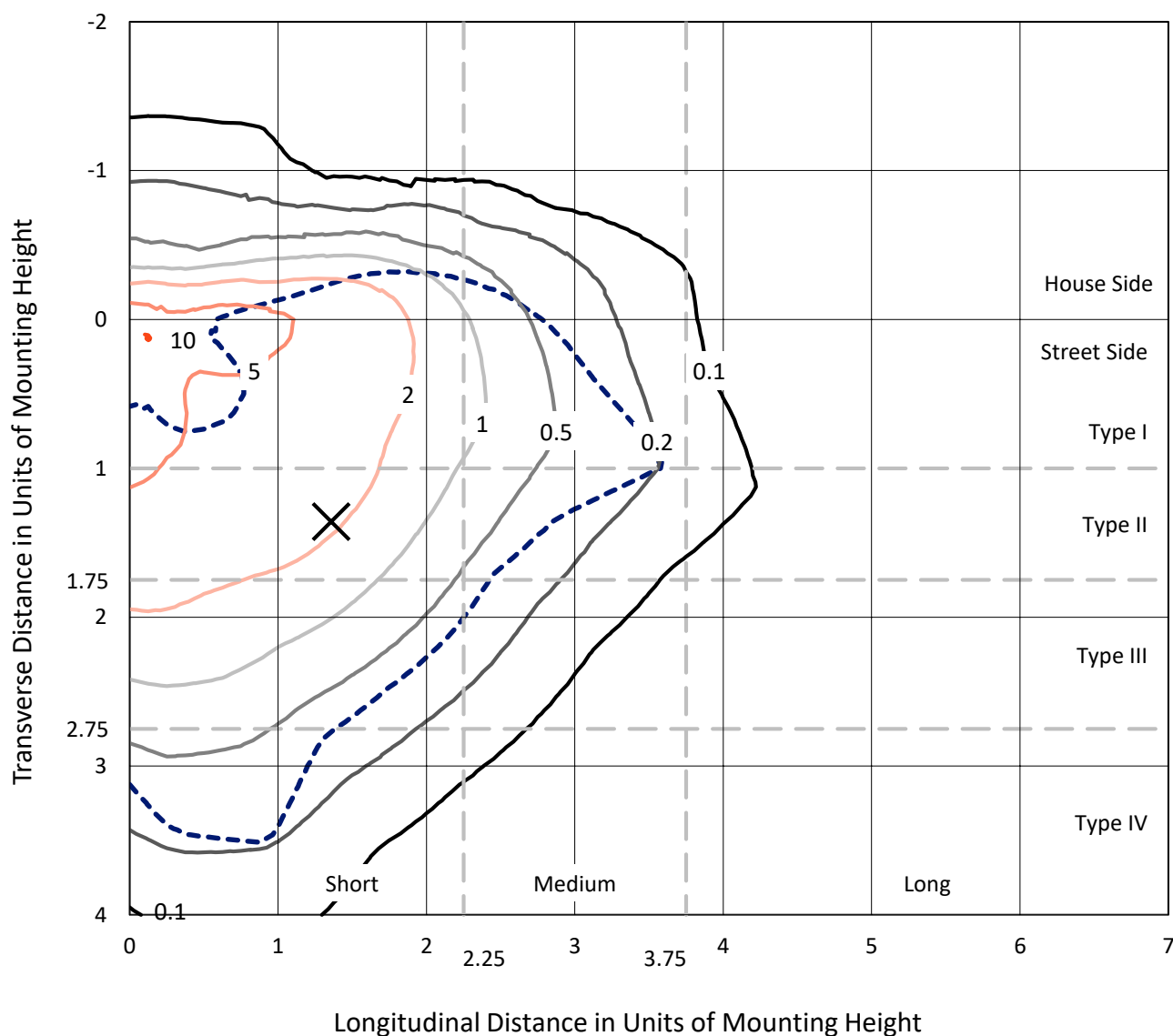
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



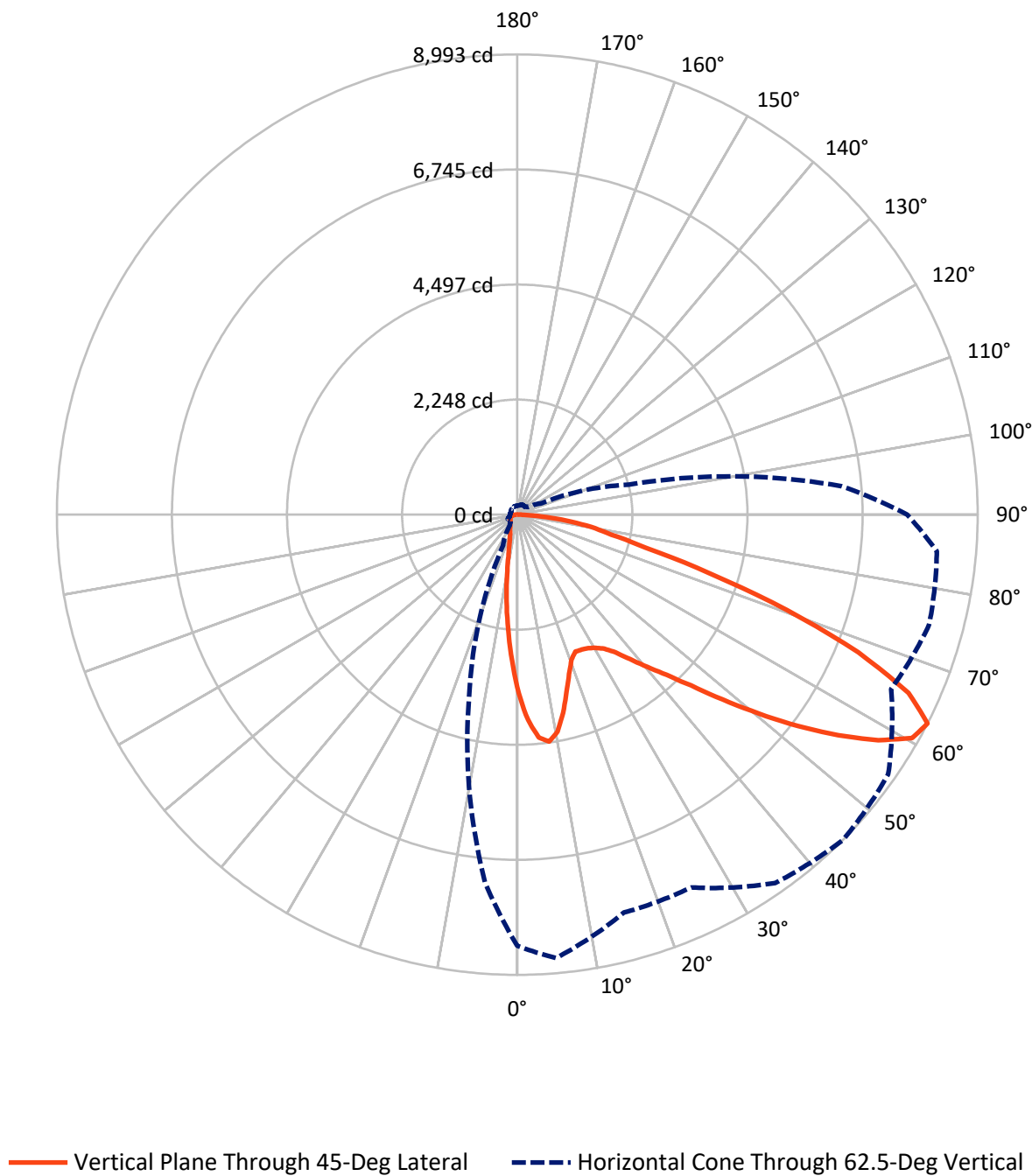
Based on 20 foot mounting height. Maximum calculated value = 10.3 fc

Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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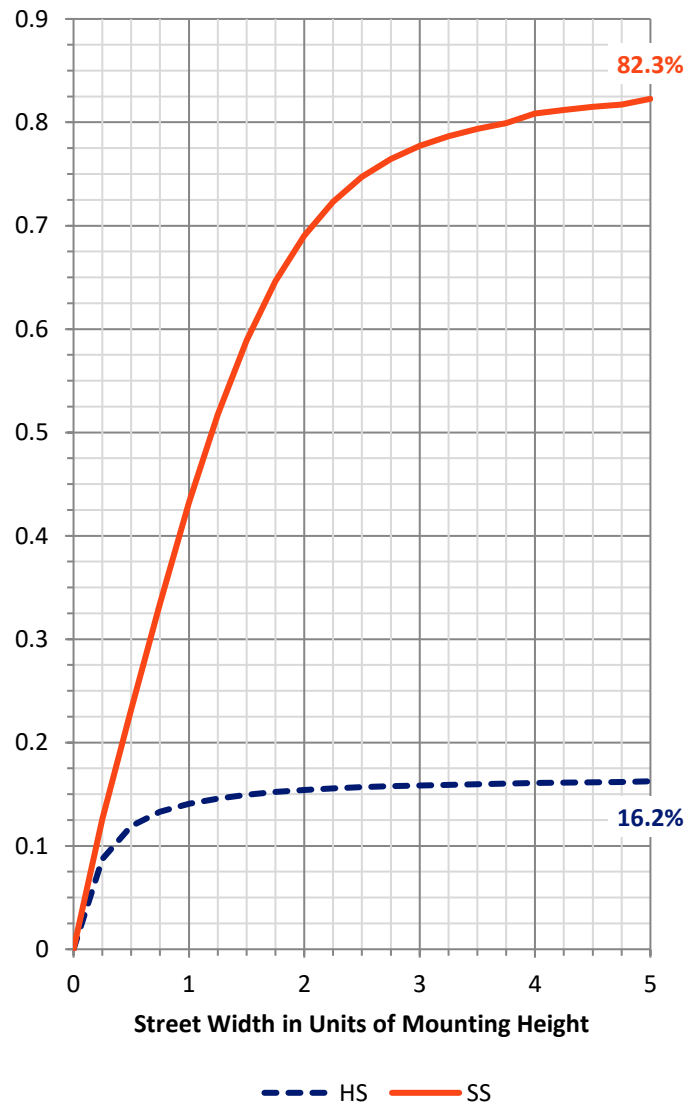
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1713.0	0.0	1713.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	8638.2	0.0	8638.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	10351.2	0.0	10351.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.6	2.5
10°-20°	466.8	4.5
20°-30°	680.6	6.6
30°-40°	1048.3	10.1
40°-50°	1542.8	14.9
50°-60°	2262.9	21.9
60°-70°	2529.7	24.4
70°-80°	1238.5	12.0
80°-90°	327.0	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°	10351.2	100.0
0°-180°	10351.2	100.0

Coefficient of Utilization



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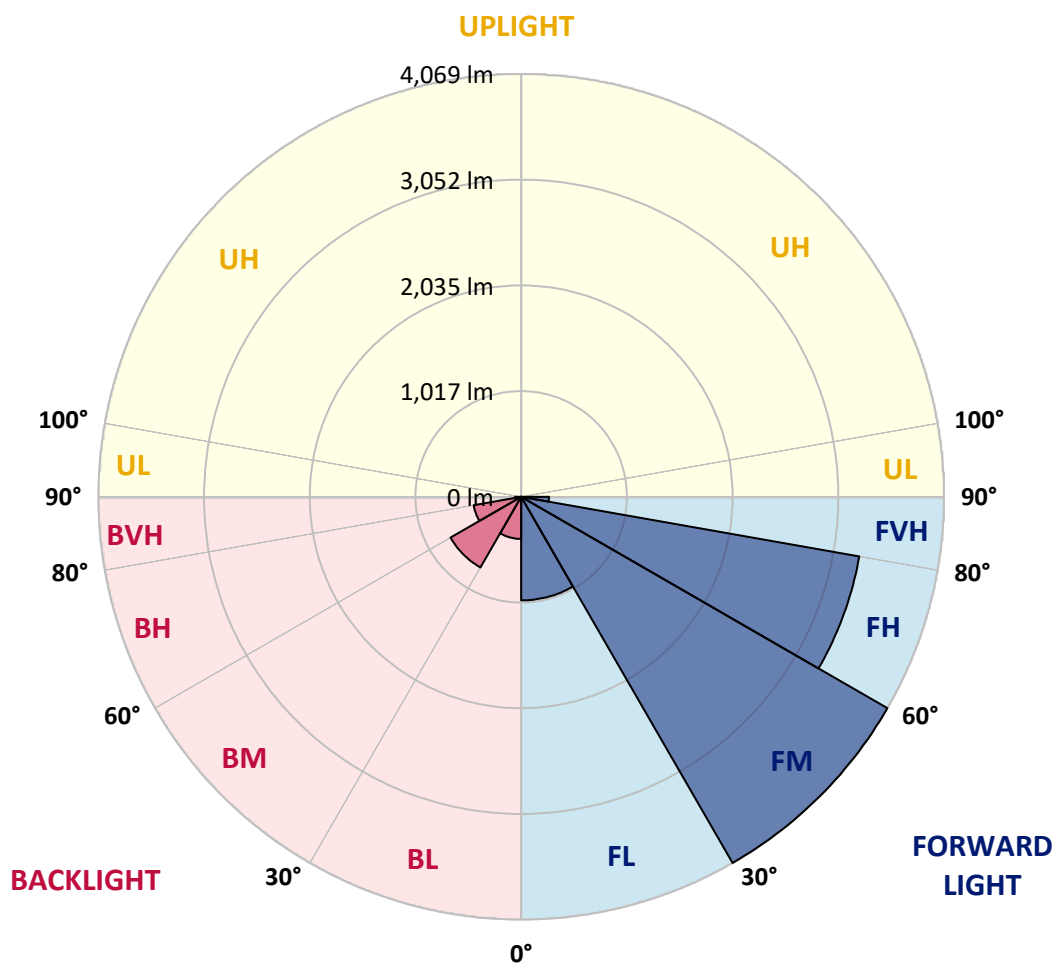
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	996.8	9.6			
FM	(30°-60°)	4069.2	39.3			
FH	(60°-80°)	3303.8	31.9			G2/5000
FVH	(80°-90°)	268.5	2.6			G3/500
BL	(0°-30°)	405.3	3.9	B1/500		
BM	(30°-60°)	784.9	7.6	B1/1000		
BH	(60°-80°)	464.4	4.5	B1/500		G1/500
BVH	(80°-90°)	58.5	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2
2.5°	3633.8	3691.8	3805.1	3889.8	3992.8	4016.7	4049.7	4017.3	3959.8	3883.5	3858.5
5°	3417.0	3541.0	3815.9	4057.7	4272.8	4372.9	4400.9	4318.3	4151.6	3932.5	3798.8
7.5°	3069.3	3245.6	3617.8	3974.1	4290.9	4478.2	4473.6	4281.9	3975.2	3618.4	3403.9
10°	2769.4	2970.9	3397.6	3795.8	4132.1	4313.8	4243.7	3998.6	3632.7	3221.8	2989.2
12.5°	2601.6	2799.0	3232.0	3632.1	3913.1	3975.7	3922.3	3682.1	3337.4	2921.9	2718.3
15°	2572.5	2789.4	3166.0	3491.5	3649.2	3594.5	3530.8	3423.2	3179.7	2825.2	2612.9
17.5°	2698.2	2937.3	3241.7	3393.6	3367.0	3271.9	3253.6	3265.6	3207.0	2932.7	2688.1
20°	2939.5	3226.3	3422.1	3347.6	3152.3	3021.4	3026.1	3208.7	3382.2	3205.3	2925.9
22.5°	3278.1	3605.3	3682.1	3372.1	3061.9	2906.6	2944.1	3240.0	3661.6	3603.6	3246.8
25°	3716.2	4014.4	3959.2	3460.8	3071.0	2920.8	2951.0	3348.1	3991.7	4001.9	3644.1
27.5°	4140.8	4417.4	4191.9	3578.6	3108.5	2954.4	2994.1	3518.2	4306.9	4434.4	4098.1
30°	4472.0	4664.3	4284.2	3686.1	3182.5	3019.8	3069.3	3679.9	4450.3	4726.3	4447.5
32.5°	4746.2	4884.4	4431.0	3819.2	3318.5	3122.7	3209.8	3876.2	4656.8	5004.0	4789.5
35°	5096.7	5135.9	4613.6	3967.7	3528.5	3302.1	3410.1	4068.5	4853.8	5284.6	5126.3
37.5°	5507.5	5457.0	4786.0	4171.0	3799.9	3582.5	3671.8	4279.5	5015.9	5602.6	5470.6
40°	5913.8	5792.1	5002.2	4486.1	4196.0	3913.1	4019.0	4505.0	5167.3	5921.2	5806.8
42.5°	6259.3	6078.8	5215.6	4832.6	4564.7	4277.9	4404.2	4732.0	5311.8	6193.3	6098.8
45°	6514.7	6290.5	5418.8	5165.6	5072.8	4762.7	4822.4	4992.0	5468.3	6420.3	6338.9
47.5°	6742.9	6503.3	5648.7	5501.3	5517.3	5393.1	5297.0	5294.7	5652.6	6605.7	6565.9
50°	7048.5	6798.6	5895.6	5847.2	6184.1	6101.6	5889.4	5648.0	5885.9	6816.2	6811.8
52.5°	7469.5	7266.4	6197.1	6219.9	6806.7	6860.7	6597.8	6072.6	6251.3	7202.7	7175.4
55°	7967.4	7849.0	6608.0	6648.4	7570.2	7609.0	7347.8	6603.5	6788.4	7762.0	7686.3
57.5°	8356.0	8331.0	7058.7	7162.8	8140.4	8314.5	8074.4	7218.0	7393.9	8233.1	8043.1
60°	8510.9	8632.0	7538.4	7681.8	8667.9	8860.8	8650.3	7758.1	7930.5	8428.4	8018.6
62.5°	8427.1	8698.0	8049.3	8037.4	8785.6	8993.3	8845.4	8058.4	8328.2	8226.9	7612.9
65°	8040.8	8460.8	8345.9	7945.8	8382.8	8399.9	8352.1	7924.1	8422.0	7590.1	6828.8
67.5°	7199.2	7803.6	7955.5	7160.6	7296.0	7185.0	7104.8	7189.0	7932.8	6636.0	5739.2
70°	5863.7	6773.1	6845.8	5727.2	5665.7	5591.3	5431.3	5893.9	6967.1	5438.7	4553.9
72.5°	4311.5	5267.4	5491.1	4200.5	3916.0	3931.3	3805.1	4441.8	5664.5	4040.1	3399.9
75°	2949.8	3814.1	4296.1	2931.0	2589.7	2595.9	2579.9	3147.2	4511.8	2810.3	2544.1
77.5°	2154.9	2725.0	3240.0	1970.5	1913.0	1877.7	1869.2	2202.1	3459.0	2040.5	1975.6
80°	1729.2	2013.2	2176.6	1365.6	1468.7	1465.8	1418.6	1514.2	2259.1	1492.6	1477.7
82.5°	1199.4	1547.2	1763.5	1070.3	991.2	974.7	986.1	1127.8	1596.8	1020.3	970.2
85°	632.7	1027.7	1746.3	948.6	588.4	469.5	583.8	923.6	1383.3	540.7	473.4
87.5°	80.9	297.0	1156.3	378.4	232.1	125.2	277.1	520.1	888.3	110.4	96.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2
2.5°	3794.2	3718.5	3619.5	3528.0	3432.9	3338.4	3215.0	3137.6	3084.1	3073.9	3051.1
5°	3702.0	3450.5	3260.6	3096.1	2946.9	2736.4	2619.8	2523.1	2471.2	2466.1	2453.6
7.5°	3277.0	2929.9	2673.2	2440.6	2229.4	2059.3	1871.5	1783.8	1748.0	1756.6	1765.1
10°	2834.8	2446.8	2152.1	1914.2	1728.2	1584.7	1433.9	1332.1	1261.5	1247.3	1244.5
12.5°	2511.7	2086.0	1799.8	1632.0	1488.0	1353.1	1193.2	1073.2	981.5	950.2	929.2
15°	2375.1	1909.7	1609.7	1428.8	1270.0	1098.8	950.2	824.5	740.3	713.0	697.6
17.5°	2404.1	1860.6	1479.0	1247.3	1044.2	865.5	678.3	570.8	520.1	507.0	507.0
20°	2556.5	1851.6	1370.7	1080.0	826.8	619.6	466.0	404.6	388.1	386.3	390.9
22.5°	2770.6	1883.4	1290.1	934.9	642.5	452.4	363.1	340.3	332.9	334.6	339.7
25°	3089.2	1991.0	1231.4	805.8	504.1	370.4	323.7	310.1	306.7	311.3	317.5
27.5°	3467.1	2098.6	1195.0	708.4	425.7	338.6	307.9	293.6	295.9	301.5	307.2
30°	3798.8	2186.8	1137.5	639.0	401.2	340.3	307.9	288.5	286.3	287.4	289.1
32.5°	4096.3	2246.5	1070.3	572.9	346.0	302.1	287.4	284.5	271.9	267.4	268.0
35°	4353.0	2246.5	1029.9	534.3	310.1	268.0	244.0	229.9	223.7	224.2	230.4
37.5°	4600.6	2201.6	1010.0	512.7	290.7	254.9	233.9	221.4	212.8	211.1	212.3
40°	4819.0	2136.1	987.2	503.5	276.0	246.9	227.0	216.8	207.7	204.9	205.4
42.5°	4994.2	2083.1	962.2	491.6	266.9	241.3	222.5	213.4	203.1	200.3	199.7
45°	5183.8	2065.5	929.2	467.7	271.4	241.8	221.4	211.6	201.5	198.0	196.8
47.5°	5433.6	2120.7	895.1	439.3	281.2	244.6	223.1	211.6	200.8	198.0	196.8
50°	5748.2	2250.5	851.7	397.7	271.4	252.6	222.5	210.0	200.8	198.0	195.8
52.5°	6152.3	2425.8	795.0	349.9	265.7	271.9	221.4	206.5	198.0	194.1	190.0
55°	6643.3	2569.1	727.2	310.8	252.6	266.9	219.6	202.5	193.5	187.8	184.3
57.5°	7003.0	2620.9	640.1	285.0	234.5	258.3	217.3	197.4	187.8	183.2	178.6
60°	6931.9	2520.7	566.7	269.1	223.7	233.3	215.7	193.0	182.7	179.3	175.3
62.5°	6362.1	2259.1	519.5	261.7	216.8	212.8	217.3	188.4	178.1	174.7	173.5
65°	5508.1	1872.6	500.7	260.0	211.1	200.8	202.0	183.2	172.9	170.1	169.1
67.5°	4543.6	1511.3	484.2	265.7	203.7	192.3	186.7	176.4	167.8	165.0	162.7
70°	3583.1	1256.9	476.8	262.3	194.6	183.8	177.5	169.1	161.6	158.8	157.0
72.5°	2885.5	1061.8	472.9	259.0	182.7	172.4	166.7	159.3	151.4	150.2	148.5
75°	2441.6	834.7	433.0	248.1	169.1	158.8	154.8	147.9	140.0	140.0	138.9
77.5°	1883.4	603.7	360.2	219.6	154.8	143.3	140.0	134.8	125.7	127.5	126.8
80°	1391.3	393.8	281.7	182.1	137.1	126.3	124.7	119.5	109.8	112.1	112.1
82.5°	953.1	258.3	202.5	149.0	117.2	107.0	107.0	101.8	91.0	92.3	95.6
85°	478.5	177.5	151.4	115.5	91.0	85.9	85.9	82.0	71.1	71.7	76.3
87.5°	145.7	107.0	100.2	82.5	65.4	64.4	61.4	58.6	51.8	51.3	54.1
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°	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2
2.5°	3016.4	2984.0	2944.6	2858.2	2829.2	2827.4	2853.7	2826.3	2878.7	2856.5	2880.9
5°	2432.5	2400.7	2356.8	2246.5	2179.4	2133.9	2112.2	2048.5	2094.6	2060.9	2088.9
7.5°	1789.0	1796.4	1767.4	1702.5	1556.3	1482.8	1439.6	1400.9	1434.5	1431.1	1484.7
10°	1257.6	1277.5	1256.9	1191.6	1073.2	1032.7	1040.7	1056.1	1099.9	1122.6	1205.2
12.5°	905.3	904.1	891.1	832.4	754.6	759.1	791.5	818.3	858.7	882.6	966.7
15°	676.0	665.7	660.0	612.3	567.9	577.6	593.5	596.3	621.9	636.2	704.4
17.5°	511.0	516.1	522.4	488.2	454.6	448.4	435.8	420.5	427.9	430.7	464.9
20°	405.7	426.2	441.5	417.7	383.5	365.4	349.4	339.1	339.1	338.6	348.2
22.5°	354.5	369.3	385.8	369.3	338.6	322.7	313.6	305.6	304.4	304.4	313.6
25°	326.5	337.4	353.4	342.0	319.2	307.2	298.8	288.5	284.5	283.4	289.6
27.5°	312.9	317.5	325.5	315.2	295.9	290.2	287.9	278.8	273.7	270.9	277.1
30°	289.6	288.5	289.1	278.8	263.5	262.9	266.9	268.6	266.9	266.3	276.0
32.5°	268.0	265.7	265.2	256.1	241.8	238.4	241.8	245.3	249.2	254.9	266.3
35°	240.7	246.4	249.7	241.8	224.7	214.4	210.6	204.4	200.8	200.8	213.9
37.5°	219.1	232.1	237.3	229.9	211.1	196.8	190.0	188.9	189.4	191.7	204.4
40°	211.6	221.4	225.9	218.5	199.7	186.7	182.7	181.5	182.7	186.1	198.7
42.5°	207.1	213.9	213.4	204.4	188.9	179.8	177.5	176.4	177.5	181.0	194.6
45°	203.1	207.7	203.1	192.3	178.1	173.5	174.2	173.5	174.7	178.1	191.2
47.5°	199.7	201.5	195.8	184.9	170.1	169.1	171.3	172.9	174.2	177.0	190.6
50°	194.6	194.6	189.4	178.1	163.4	163.9	166.7	170.7	171.3	174.7	185.5
52.5°	188.4	187.8	184.3	173.5	157.7	159.3	159.3	163.9	165.0	169.1	180.4
55°	183.2	182.1	180.4	170.1	152.5	155.3	153.6	155.3	158.2	162.1	174.7
57.5°	178.6	176.4	176.4	167.2	148.5	149.6	145.7	147.9	151.4	154.8	167.8
60°	174.2	171.9	172.9	163.4	142.2	141.2	139.5	144.0	145.1	149.0	162.1
62.5°	169.1	167.2	167.8	158.8	137.6	134.8	134.8	138.9	139.5	145.1	157.7
65°	165.0	162.7	162.1	154.2	132.5	129.2	130.9	132.5	133.8	139.5	151.4
67.5°	161.0	156.5	156.5	150.2	126.8	123.5	126.8	126.3	128.1	133.2	142.8
70°	155.9	149.6	150.2	147.4	121.2	117.2	120.0	119.5	120.6	124.0	133.8
72.5°	147.9	142.8	144.0	142.8	115.5	109.8	111.0	111.0	111.0	113.8	124.0
75°	137.6	133.8	137.1	140.0	108.7	100.7	101.8	101.8	100.2	101.8	114.4
77.5°	125.2	122.9	134.3	130.3	100.7	91.0	91.0	89.9	86.6	88.7	102.3
80°	111.6	109.8	124.0	109.3	91.6	79.1	77.9	75.1	71.7	73.4	87.1
82.5°	97.4	95.6	104.2	83.7	79.1	65.4	62.6	57.5	54.1	55.7	68.3
85°	79.6	79.6	80.2	63.2	60.3	50.0	46.7	39.9	35.8	37.0	48.9
87.5°	57.0	58.6	54.1	43.2	35.8	27.9	25.5	21.7	18.2	21.1	25.5
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2
2.5°	3006.2	3068.8	3139.9	3230.9	3308.8	3436.9	3559.7	3633.8
5°	2247.7	2351.8	2481.5	2648.2	2803.6	3036.9	3268.5	3417.0
7.5°	1608.7	1720.2	1860.1	2068.4	2288.0	2585.6	2891.8	3069.3
10°	1330.9	1445.3	1563.1	1703.7	1883.4	2207.2	2569.1	2769.4
12.5°	1101.0	1223.3	1350.3	1498.3	1665.0	1954.0	2371.2	2601.6
15°	842.7	979.3	1128.9	1316.1	1524.9	1858.9	2322.2	2572.5
17.5°	577.6	730.1	913.9	1144.8	1400.3	1828.2	2409.8	2698.2
20°	397.7	508.7	705.0	975.9	1283.1	1824.3	2578.2	2939.5
22.5°	332.9	382.4	525.7	820.5	1195.0	1873.2	2839.4	3278.1
25°	307.9	337.4	419.9	685.7	1130.7	1985.9	3199.0	3716.2
27.5°	293.1	319.8	381.2	597.4	1080.0	2116.8	3549.0	4140.8
30°	298.8	326.0	370.4	552.6	1011.2	2226.0	3859.7	4472.0
32.5°	269.1	281.2	317.5	512.7	961.6	2317.6	4131.6	4746.2
35°	229.3	250.4	283.4	494.0	962.8	2379.1	4428.2	5096.7
37.5°	218.5	239.6	263.5	487.1	975.9	2444.5	4768.4	5507.5
40°	211.6	231.0	251.6	483.2	988.4	2504.2	5101.9	5913.8
42.5°	207.1	224.7	250.4	469.5	994.7	2557.8	5376.1	6259.3
45°	206.5	224.7	254.9	455.8	1004.3	2615.2	5606.0	6514.7
47.5°	207.1	232.1	246.4	439.3	1004.3	2711.4	5875.8	6742.9
50°	204.9	244.6	237.3	415.9	981.0	2893.5	6245.6	7048.5
52.5°	203.7	243.0	219.6	380.1	940.6	3182.5	6719.6	7469.5
55°	200.8	234.5	207.1	326.5	893.4	3497.7	7227.2	7967.4
57.5°	198.0	207.7	200.3	279.9	820.5	3719.7	7576.5	8356.0
60°	221.9	181.5	194.6	257.2	723.2	3780.6	7562.8	8510.9
62.5°	205.4	170.1	187.2	252.1	654.9	3609.8	7213.6	8427.1
65°	161.0	162.7	179.8	266.9	636.8	3157.5	6594.4	8040.8
67.5°	147.4	155.3	172.4	285.6	638.4	2528.2	5669.1	7199.2
70°	138.9	147.4	163.9	295.3	643.0	1884.6	4482.2	5863.7
72.5°	129.2	136.6	154.2	297.0	613.4	1369.0	3454.6	4311.5
75°	117.8	124.7	140.5	259.0	508.2	949.7	2642.6	2949.8
77.5°	104.7	109.8	123.5	199.7	377.3	607.7	1983.6	2154.9
80°	89.4	92.3	103.6	146.2	258.3	380.1	1569.4	1729.2
82.5°	71.7	72.8	80.2	109.8	167.8	244.0	1051.0	1199.4
85°	50.7	50.7	55.1	79.6	114.4	154.8	570.8	632.7
87.5°	23.9	24.5	24.5	43.8	59.8	78.5	131.4	80.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)