

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: P452001

Luminaire Tested: **GALN-SA2D-830-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 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: 10656 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 125
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: 24 FT

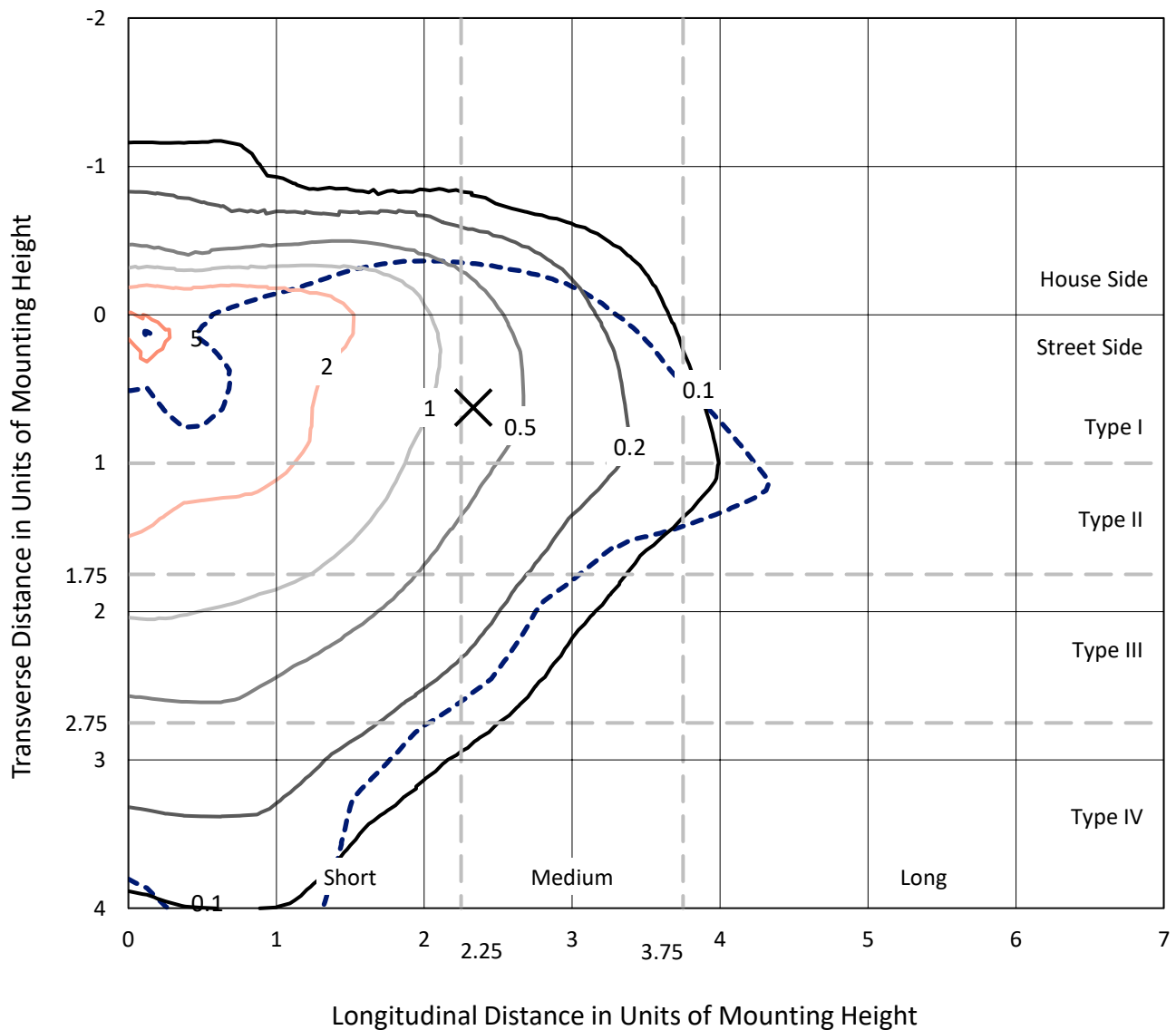


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Iso-Footcandle Lines of Horizontal Illumination

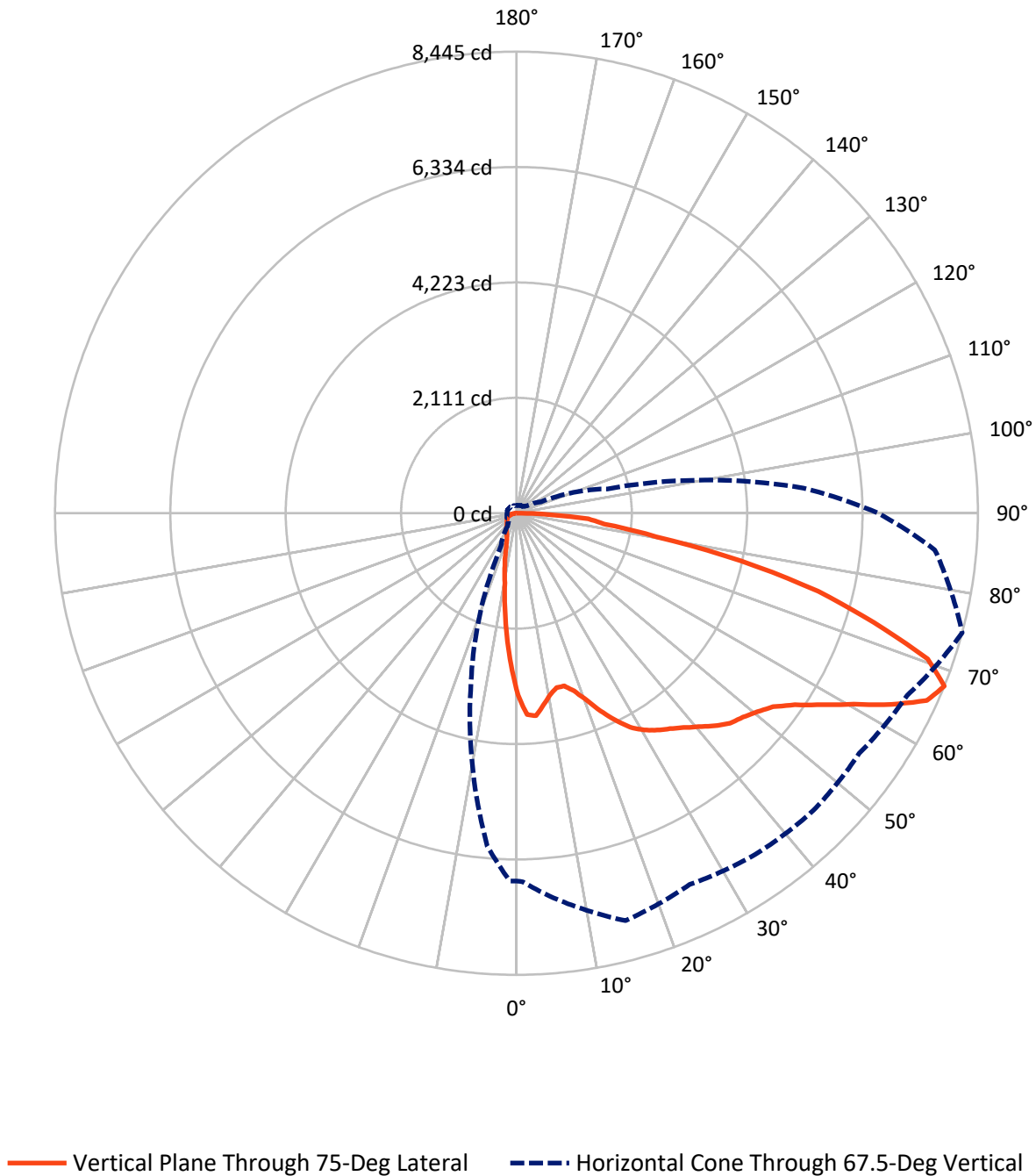
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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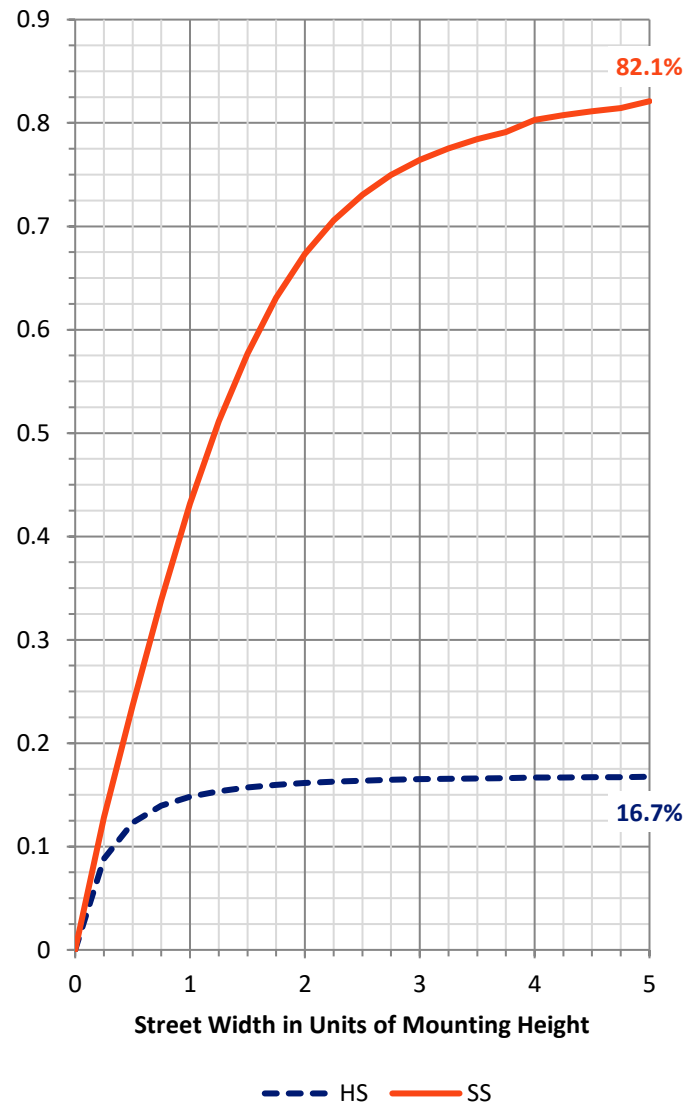
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1801.1	0.0	1801.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	8854.9	0.0	8854.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	10656.0	0.0	10656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.5	2.4
10°-20°	526.6	4.9
20°-30°	757.8	7.1
30°-40°	1091.5	10.2
40°-50°	1533.2	14.4
50°-60°	2138.3	20.1
60°-70°	2542.3	23.9
70°-80°	1497.2	14.1
80°-90°	316.6	3.0
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°	10656.0	100.0
0°-180°	10656.0	100.0

Coefficient of Utilization



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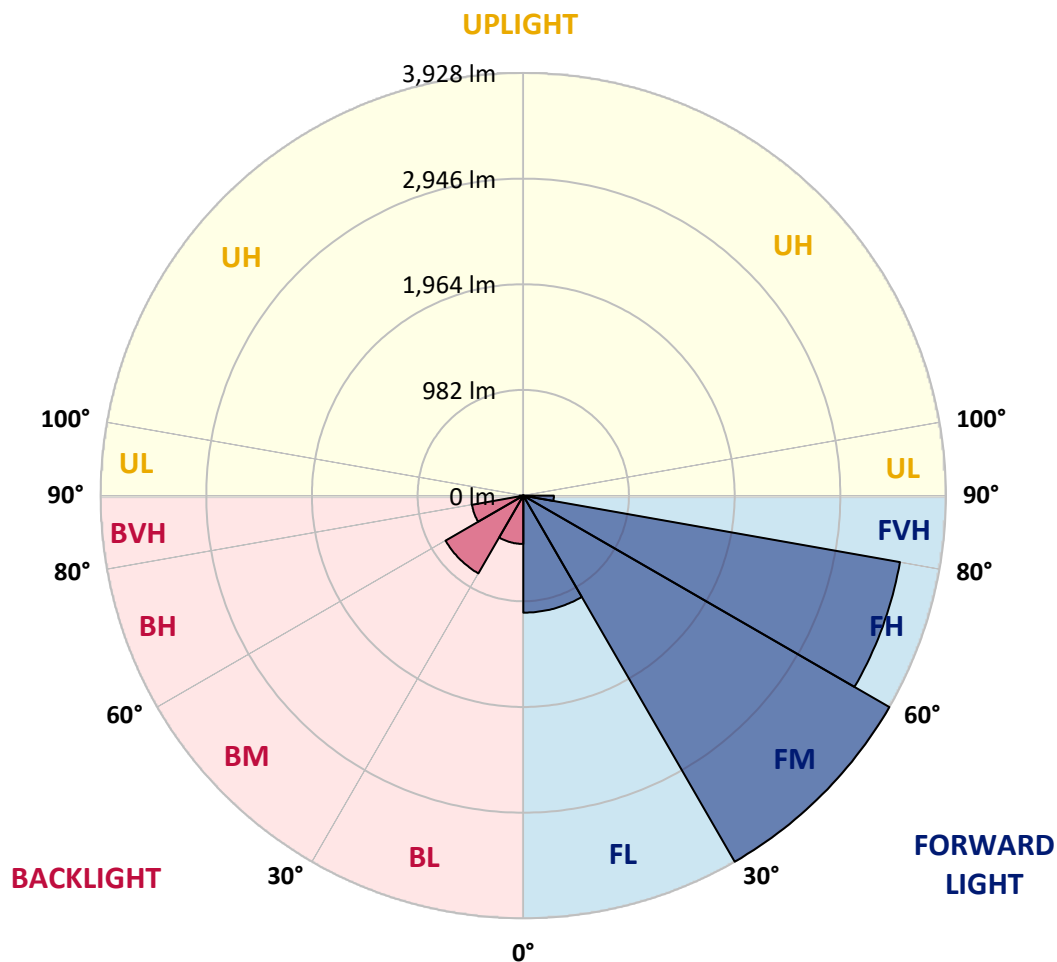
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1087.7	10.2			
FM	(30°-60°)	3928.5	36.9			
FH	(60°-80°)	3554.9	33.4			G2/5000
FVH	(80°-90°)	283.9	2.7			G3/500
BL	(0°-30°)	449.2	4.2	B1/500		
BM	(30°-60°)	834.4	7.8	B1/1000		
BH	(60°-80°)	484.6	4.5	B1/500		G1/500
BVH	(80°-90°)	32.7	0.3			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3329.2	3329.2	3329.2	3329.2	3329.2	3329.2	3329.2	3329.2	3329.2	3329.2	3329.2
2.5°	3589.5	3594.3	3625.1	3714.6	3776.1	3798.6	3814.4	3785.0	3756.3	3686.6	3581.3
5°	3578.6	3606.6	3686.6	3887.5	4046.0	4114.3	4134.8	4046.7	3901.1	3722.1	3506.9
7.5°	3369.5	3407.1	3530.1	3867.0	4146.4	4306.3	4285.2	4126.0	3863.6	3544.4	3243.8
10°	3121.5	3163.1	3311.4	3718.7	4078.8	4298.8	4298.8	4104.8	3756.3	3377.0	3030.6
12.5°	2924.7	2968.4	3137.9	3566.3	3938.0	4146.4	4181.3	4014.6	3679.1	3271.1	2890.5
15°	2859.7	2902.1	3084.6	3474.1	3789.1	3916.2	3927.8	3873.1	3641.5	3278.6	2884.3
17.5°	2940.4	2995.0	3179.5	3501.4	3652.4	3659.9	3668.8	3711.9	3645.6	3416.0	3008.7
20°	3173.4	3232.2	3424.9	3589.5	3532.8	3454.9	3459.7	3570.4	3694.1	3642.8	3306.0
22.5°	3509.6	3560.8	3758.3	3744.7	3482.3	3321.7	3288.2	3442.6	3765.8	3925.7	3622.3
25°	3872.4	3932.6	4159.4	3974.9	3496.6	3242.4	3221.2	3367.5	3840.3	4190.2	3987.9
27.5°	4287.9	4346.7	4525.7	4207.3	3571.8	3236.3	3211.0	3360.6	3907.3	4434.8	4337.1
30°	4596.8	4650.7	4772.4	4402.7	3664.0	3277.3	3245.8	3414.6	3964.7	4602.2	4677.4
32.5°	4839.3	4895.4	4961.7	4524.3	3785.7	3351.7	3293.7	3513.0	4039.9	4730.0	4929.5
35°	5092.2	5158.5	5153.7	4632.3	3899.1	3437.8	3381.1	3655.1	4158.1	4841.4	5249.3
37.5°	5412.7	5439.3	5405.1	4729.3	4035.1	3593.0	3561.5	3866.3	4326.2	4976.0	5623.1
40°	5737.9	5791.2	5615.6	4846.9	4200.4	3884.7	3881.3	4178.6	4525.7	5133.9	5985.3
42.5°	6016.7	6061.8	5812.4	4949.4	4400.6	4240.7	4266.7	4597.4	4787.4	5317.0	6276.4
45°	6226.5	6266.8	5994.2	5048.4	4664.4	4652.1	4805.2	5046.4	5117.5	5481.7	6447.2
47.5°	6404.9	6443.8	6120.6	5198.8	4990.4	5143.4	5409.9	5514.5	5399.7	5576.0	6638.6
50°	6555.2	6566.8	6207.4	5377.8	5394.9	5745.4	6003.7	6071.4	5678.5	5711.3	6804.6
52.5°	6711.7	6696.6	6357.0	5603.3	5832.2	6316.7	6504.6	6575.0	5945.7	5878.0	7046.5
55°	7062.2	7076.6	6692.5	5887.6	6274.3	6877.7	7125.1	7057.4	6241.5	6184.8	7354.0
57.5°	7485.9	7473.6	7164.7	6332.4	6724.7	7399.8	7584.3	7475.6	6636.5	6606.4	7665.6
60°	7650.6	7667.0	7559.7	6810.8	7168.8	7856.9	8045.5	7876.8	7110.1	7096.4	7900.7
62.5°	7485.2	7577.5	7649.9	7236.5	7547.4	8193.1	8380.4	8187.7	7604.1	7703.2	8065.4
65°	7155.8	7175.7	7422.3	7597.3	7729.8	8248.5	8346.2	8243.7	8016.8	8256.0	8057.8
67.5°	6728.1	6745.2	7034.2	7715.5	7494.8	7619.8	7688.2	7658.1	7889.1	8445.3	7686.8
70°	6320.8	6307.1	6612.6	7414.1	6524.4	6334.5	6391.2	6296.9	6807.3	7982.7	6959.0
72.5°	5528.1	5577.3	5905.3	6576.4	5166.0	4857.1	4980.8	4736.8	5235.7	6836.7	5648.4
75°	4330.3	4341.9	4889.2	5519.3	3897.0	3409.8	3577.2	3475.4	4010.5	5703.1	3900.5
77.5°	2998.5	2972.5	3560.8	4215.5	2779.1	2496.2	2498.9	2450.4	2800.3	4199.1	2650.0
80°	1904.4	1864.8	2229.0	2604.2	1909.9	2043.2	1976.2	1974.1	1823.1	2590.5	1602.4
82.5°	1029.1	1072.8	1408.3	1632.5	1370.1	1579.2	1447.3	1404.9	1251.2	1621.5	1025.0
85°	468.8	509.8	751.0	1110.4	1040.7	1052.3	703.1	829.6	1035.2	1316.8	547.3
87.5°	45.8	58.8	155.1	524.1	355.3	280.2	104.5	201.6	260.3	468.1	43.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3329.2	3329.2	3329.2	3329.2	3329.2	3329.2	3329.2	3329.2	3329.2	3329.2	3329.2
2.5°	3538.3	3502.8	3381.8	3282.0	3176.1	3095.5	2990.3	2919.9	2871.4	2798.2	2789.4
5°	3375.7	3288.9	3078.4	2863.8	2678.7	2539.3	2397.8	2268.0	2191.4	2167.5	2136.8
7.5°	3101.6	2955.4	2684.8	2438.8	2226.3	2018.6	1858.7	1745.2	1669.4	1625.0	1571.7
10°	2876.1	2706.7	2377.3	2076.0	1901.0	1771.9	1631.1	1509.5	1415.9	1335.9	1292.2
12.5°	2724.4	2533.1	2162.7	1918.1	1782.8	1645.5	1480.8	1344.1	1206.1	1115.2	1076.2
15°	2678.7	2476.4	2096.5	1839.5	1645.5	1465.7	1281.2	1102.9	966.2	880.1	851.4
17.5°	2790.7	2546.1	2095.8	1735.0	1484.2	1269.6	1033.2	865.8	725.7	661.5	641.0
20°	2999.8	2680.0	2101.9	1631.8	1309.3	1007.2	751.7	614.3	547.3	520.0	509.8
22.5°	3291.6	2884.3	2120.4	1530.0	1117.9	773.5	563.1	493.4	469.4	464.7	462.6
25°	3651.0	3137.2	2182.6	1438.4	956.7	590.4	470.8	439.4	425.7	420.9	420.2
27.5°	3981.8	3463.8	2257.7	1359.8	800.9	509.1	425.7	399.1	385.4	384.7	386.1
30°	4280.4	3737.1	2320.6	1271.7	682.6	452.4	396.3	369.7	356.7	356.0	360.1
32.5°	4538.7	3962.0	2367.1	1184.9	617.0	417.5	369.7	341.0	330.0	328.0	330.0
35°	4814.7	4186.1	2345.9	1117.2	579.5	388.8	349.9	321.8	308.9	302.7	302.7
37.5°	5129.8	4417.0	2309.7	1061.2	562.4	364.9	332.8	305.4	292.5	286.3	285.6
40°	5473.5	4648.0	2259.8	1011.3	545.3	350.5	321.2	292.5	276.7	270.6	269.2
42.5°	5776.9	4845.5	2218.8	978.5	517.3	353.3	310.9	282.9	263.1	254.9	254.2
45°	6040.6	5044.3	2211.3	959.4	494.0	349.2	308.2	275.4	252.1	243.3	241.9
47.5°	6247.0	5251.4	2254.3	948.5	468.8	327.3	325.9	270.6	242.6	233.0	231.6
50°	6498.5	5545.2	2352.7	925.9	445.5	306.8	344.4	269.9	235.1	222.8	219.3
52.5°	6833.3	5927.9	2486.0	885.6	412.0	287.7	328.7	269.9	226.2	213.9	209.8
55°	7339.7	6415.8	2616.5	828.9	364.9	262.4	296.6	261.7	213.2	202.3	199.5
57.5°	7675.2	6772.5	2699.8	750.3	306.1	243.9	255.6	248.7	200.2	188.6	188.6
60°	7692.3	6868.2	2660.2	651.2	269.2	226.9	222.1	250.8	188.6	176.3	174.9
62.5°	7495.5	6633.8	2453.8	562.4	249.4	208.4	200.9	220.0	177.0	164.7	162.6
65°	7188.0	6035.9	2095.8	520.0	238.5	192.0	181.1	180.4	164.7	153.1	150.3
67.5°	6622.8	5274.6	1722.0	495.4	233.0	173.6	163.3	159.9	150.3	140.8	139.4
70°	5789.9	4417.7	1381.0	485.2	230.3	154.4	146.2	142.1	133.9	126.4	125.7
72.5°	4504.5	3583.4	1139.8	478.3	228.9	136.7	127.8	122.3	117.5	110.7	110.7
75°	3235.6	2636.3	869.9	431.2	211.8	117.5	108.0	104.5	97.7	92.2	93.6
77.5°	2039.7	1775.3	572.6	317.1	164.0	94.3	86.1	84.0	78.6	71.1	75.8
80°	1377.6	1248.4	334.1	199.5	103.2	69.0	66.3	65.6	59.4	51.2	51.9
82.5°	937.5	919.8	173.6	113.4	59.4	40.3	38.9	40.3	33.5	27.3	27.3
85°	366.3	500.2	82.0	44.4	19.1	6.1	8.9	9.6	5.5	2.7	3.4
87.5°	6.8	51.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3329.2	3329.2	3329.2	3329.2	3329.2	3329.2	3329.2	3329.2	3329.2	3329.2	3329.2
2.5°	2775.7	2769.5	2779.8	2736.1	2744.9	2761.3	2769.5	2774.3	2842.0	2826.3	2869.3
5°	2165.5	2159.3	2199.0	2204.4	2224.9	2220.8	2240.6	2245.4	2270.0	2278.9	2339.0
7.5°	1575.1	1601.7	1646.8	1670.1	1704.9	1715.8	1705.6	1730.9	1679.6	1716.5	1727.5
10°	1265.5	1233.4	1214.3	1267.6	1274.4	1325.0	1304.5	1288.1	1318.1	1319.5	1348.2
12.5°	1053.7	984.7	938.9	953.9	970.3	992.2	995.6	1028.4	1050.3	1070.8	1087.9
15°	826.1	802.2	760.5	740.0	763.3	772.2	793.3	820.7	843.9	850.1	873.3
17.5°	634.1	638.2	631.4	619.1	633.4	640.3	641.6	642.3	648.5	644.4	678.5
20°	510.4	524.8	541.9	544.6	549.4	552.8	546.7	523.4	524.1	538.5	549.4
22.5°	461.9	464.7	483.8	489.9	505.0	498.8	481.1	470.1	468.8	472.2	477.6
25°	423.7	427.8	441.4	451.0	462.6	451.7	438.7	428.4	427.1	430.5	436.0
27.5°	389.5	395.6	407.9	417.5	428.4	418.2	405.9	397.0	396.3	395.6	399.1
30°	362.2	369.0	377.9	388.8	396.3	387.4	375.8	371.0	370.4	369.0	370.4
32.5°	334.8	345.8	354.6	360.1	367.6	360.8	351.9	349.2	344.4	340.3	338.2
35°	304.1	315.7	329.4	336.2	343.7	336.9	330.7	319.1	310.9	310.2	311.6
37.5°	286.3	291.1	302.0	313.6	321.2	317.7	306.1	294.5	292.5	292.5	293.8
40°	270.6	272.6	277.4	292.5	306.1	295.9	281.5	278.1	278.1	277.4	278.1
42.5°	254.9	256.9	256.9	268.5	290.4	274.0	263.1	263.1	263.1	263.8	265.8
45°	240.5	241.2	240.5	248.7	269.2	255.6	248.0	250.1	251.5	252.8	254.2
47.5°	228.2	228.9	228.2	235.1	245.3	239.8	235.7	238.5	241.2	243.3	244.6
50°	217.3	216.6	218.0	222.1	226.9	228.2	225.5	229.6	231.0	233.7	237.1
52.5°	207.7	207.0	208.4	210.5	217.3	217.3	217.3	220.7	223.4	226.2	231.0
55°	196.8	197.5	199.5	202.3	211.1	209.8	210.5	213.2	215.9	220.0	222.8
57.5°	186.5	187.9	190.6	194.7	203.6	202.9	203.6	205.0	208.4	210.5	213.2
60°	174.9	177.7	181.1	183.8	192.7	192.0	195.4	198.2	200.2	200.2	201.6
62.5°	163.3	167.4	170.8	172.9	182.4	183.1	187.9	190.0	191.3	190.0	192.0
65°	151.7	157.8	159.2	161.9	171.5	172.2	177.7	182.4	181.1	179.7	183.1
67.5°	140.1	147.6	146.9	150.3	159.9	161.3	166.0	174.2	171.5	170.1	172.9
70°	127.1	132.6	133.2	135.3	148.3	146.2	153.7	161.3	159.2	159.9	159.9
72.5°	112.7	117.5	117.5	121.6	135.3	131.9	138.0	146.2	146.2	145.5	145.5
75°	95.7	98.4	101.1	107.3	121.6	117.5	121.6	129.1	130.5	129.1	129.1
77.5°	77.2	81.3	82.7	90.9	101.1	100.4	104.5	108.0	110.7	109.3	109.3
80°	54.7	58.8	64.2	73.1	79.3	81.3	83.4	86.1	87.5	87.5	88.8
82.5°	30.7	36.9	41.7	50.6	53.3	63.5	62.9	64.9	62.9	55.3	61.5
85°	6.8	13.0	18.4	23.2	26.6	36.9	38.9	43.7	36.2	33.5	33.5
87.5°	0.0	0.0	0.0	0.0	0.0	5.5	10.9	15.0	13.0	10.9	10.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3329.2	3329.2	3329.2	3329.2	3329.2	3329.2	3329.2	3329.2	3329.2	3329.2
2.5°	2905.5	2965.0	3036.7	3160.4	3247.2	3340.8	3435.1	3535.6	3562.2	3589.5
5°	2355.4	2472.3	2535.8	2701.9	2876.1	3097.5	3278.6	3476.8	3559.5	3578.6
7.5°	1784.2	1863.4	2030.2	2198.3	2414.2	2646.5	2924.0	3232.8	3329.2	3369.5
10°	1414.5	1522.5	1668.7	1849.1	2038.4	2288.5	2601.4	2962.2	3098.9	3121.5
12.5°	1204.0	1324.3	1483.5	1674.2	1853.2	2041.8	2357.5	2729.9	2876.1	2924.7
15°	962.8	1108.4	1292.2	1493.1	1687.8	1894.2	2214.0	2634.2	2803.0	2859.7
17.5°	756.4	874.0	1072.8	1290.8	1521.8	1782.8	2183.9	2680.0	2887.8	2940.4
20°	578.8	662.8	830.2	1060.5	1331.1	1672.8	2191.4	2852.9	3101.6	3173.4
22.5°	500.2	543.2	645.1	864.4	1167.1	1577.1	2222.2	3090.0	3390.0	3509.6
25°	453.0	475.6	533.0	676.5	1010.6	1484.2	2292.6	3409.1	3793.2	3872.4
27.5°	412.7	429.1	464.7	567.8	868.5	1398.1	2374.6	3763.1	4169.7	4287.9
30°	374.5	396.3	429.8	504.3	777.6	1319.5	2477.8	4050.1	4486.7	4596.8
32.5°	345.1	366.9	397.7	459.9	700.4	1236.8	2539.3	4302.2	4745.7	4839.3
35°	321.2	339.6	371.7	424.3	641.6	1174.0	2527.0	4502.5	4996.5	5092.2
37.5°	304.1	319.8	351.9	390.9	597.2	1108.4	2520.8	4766.9	5302.0	5412.7
40°	288.4	304.8	334.1	369.0	552.8	1031.1	2524.2	5029.3	5627.2	5737.9
42.5°	276.1	294.5	318.4	362.8	507.0	969.0	2524.2	5257.5	5910.1	6016.7
45°	265.8	285.6	308.9	362.2	470.8	921.8	2507.1	5453.7	6135.6	6226.5
47.5°	256.9	278.8	312.3	349.9	461.9	887.6	2492.1	5610.8	6319.4	6404.9
50°	250.8	276.7	332.1	335.5	464.7	877.4	2564.5	5809.0	6481.4	6555.2
52.5°	246.0	277.4	331.4	314.3	459.9	884.2	2715.6	6118.5	6706.2	6711.7
55°	236.4	276.7	314.3	290.4	440.1	895.8	2909.6	6568.2	7058.1	7062.2
57.5°	226.9	269.2	291.8	269.9	399.7	895.8	3143.3	6993.9	7482.5	7485.9
60°	217.3	280.2	256.2	252.1	347.1	879.4	3390.0	7181.1	7615.7	7650.6
62.5°	207.7	282.2	228.9	236.4	308.9	839.8	3573.8	6974.1	7435.3	7485.2
65°	196.8	227.5	211.1	220.0	289.0	773.5	3515.7	6594.8	7096.4	7155.8
67.5°	183.8	192.7	192.0	202.9	282.2	675.8	3209.6	6115.1	6731.5	6728.1
70°	168.1	172.9	174.9	186.5	269.2	600.0	2674.6	5492.6	6244.3	6320.8
72.5°	151.7	155.8	157.8	168.1	256.2	556.9	2076.0	4635.0	5408.6	5528.1
75°	133.9	136.7	139.4	148.3	242.6	493.4	1478.7	3538.3	4142.3	4330.3
77.5°	115.5	115.5	118.9	127.8	204.3	407.3	992.2	2481.9	2806.4	2998.5
80°	93.6	94.3	92.9	102.5	150.3	278.8	563.7	1657.8	1867.5	1904.4
82.5°	71.7	69.7	70.4	75.2	112.1	190.0	300.7	1029.8	1049.6	1029.1
85°	45.1	45.1	43.7	49.2	71.7	99.1	164.0	630.7	492.7	468.8
87.5°	18.4	15.0	17.1	19.8	34.2	40.3	64.2	129.8	49.9	45.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)