

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: P194630

Luminaire Tested: **GLEON-AF-02-LED-E1-SLL-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194630
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-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 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: 10703 lumens
Efficiency: N/A
Efficacy: 94.7 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



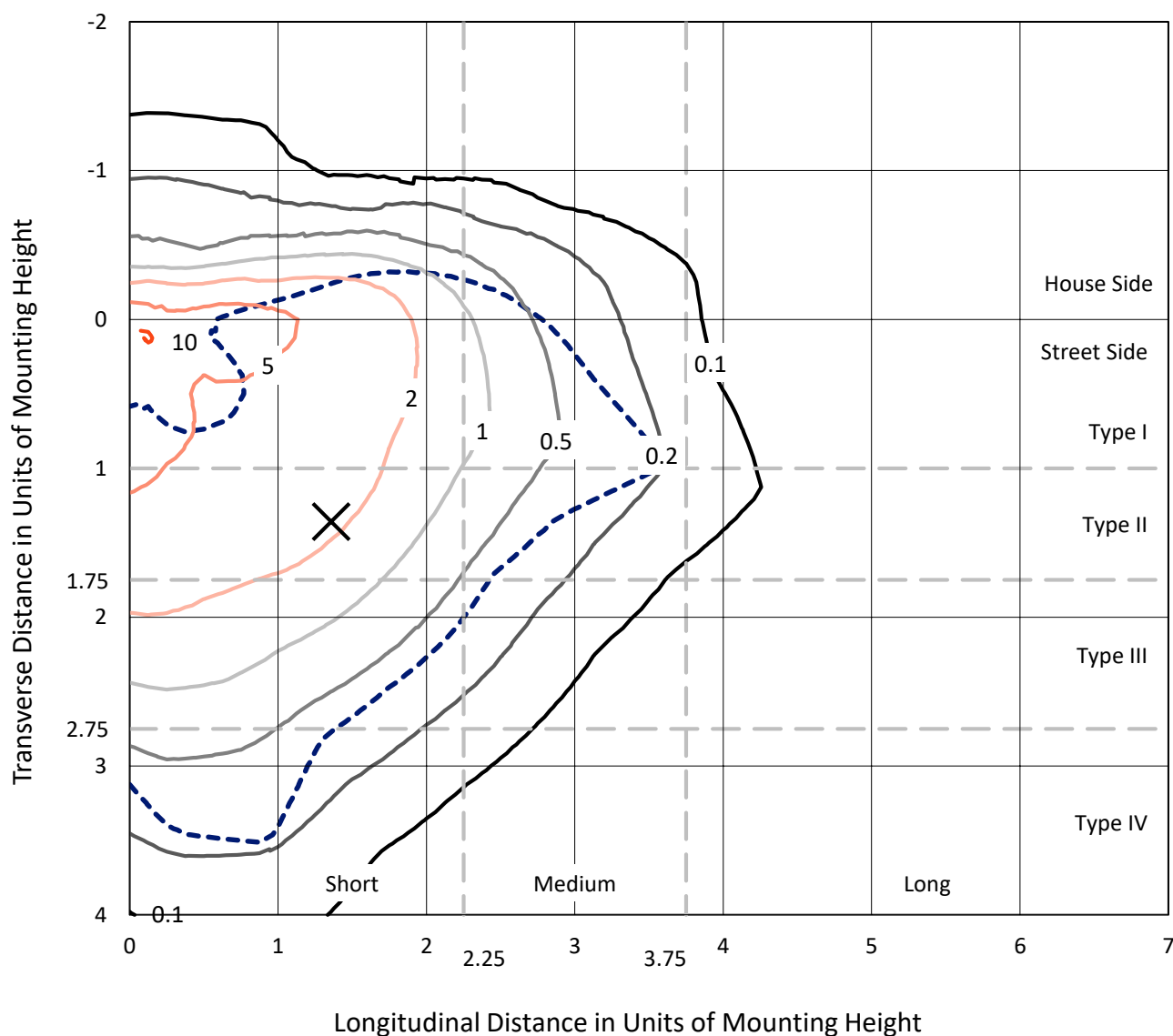
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

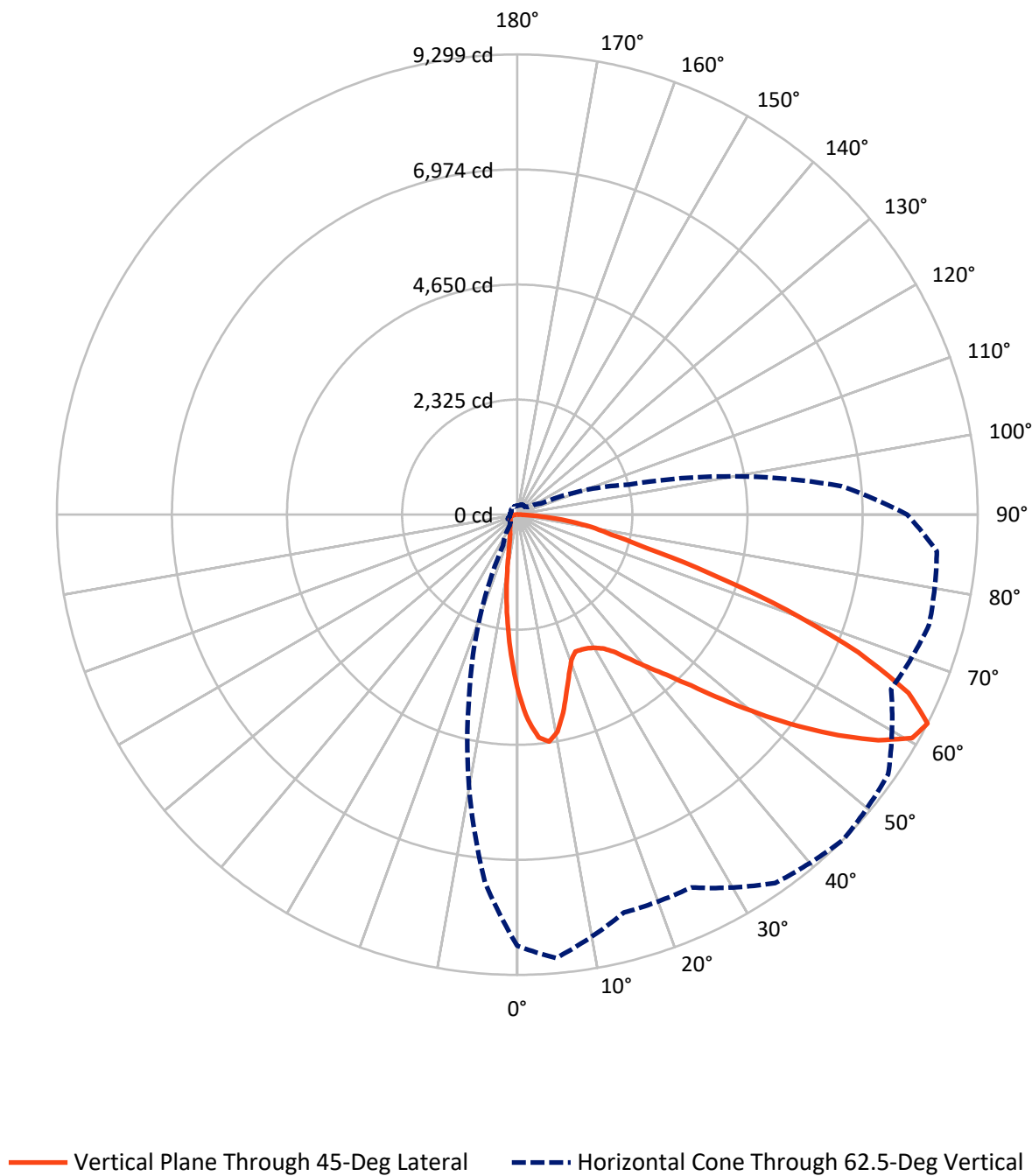


Based on 20 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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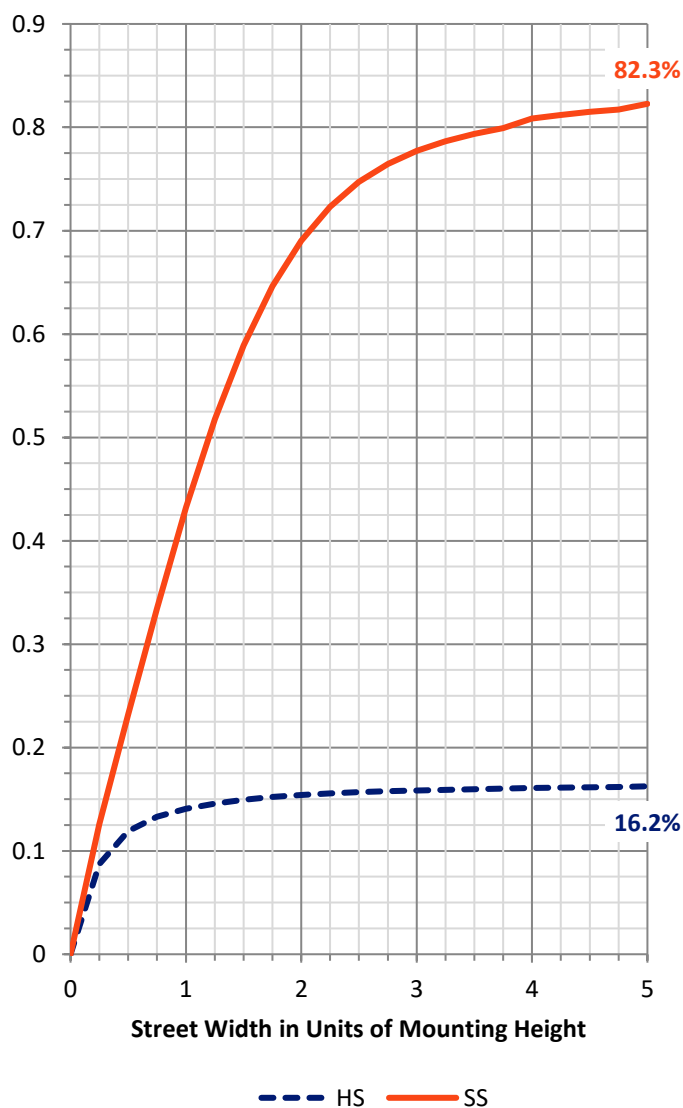
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1771.2	0.0	1771.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	8931.8	0.0	8931.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	10703.0	0.0	10703.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.2	2.5
10°-20°	482.7	4.5
20°-30°	703.8	6.6
30°-40°	1083.9	10.1
40°-50°	1595.2	14.9
50°-60°	2339.9	21.9
60°-70°	2615.6	24.4
70°-80°	1280.6	12.0
80°-90°	338.1	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°	10703.0	100.0
0°-180°	10703.0	100.0

Coefficient of Utilization



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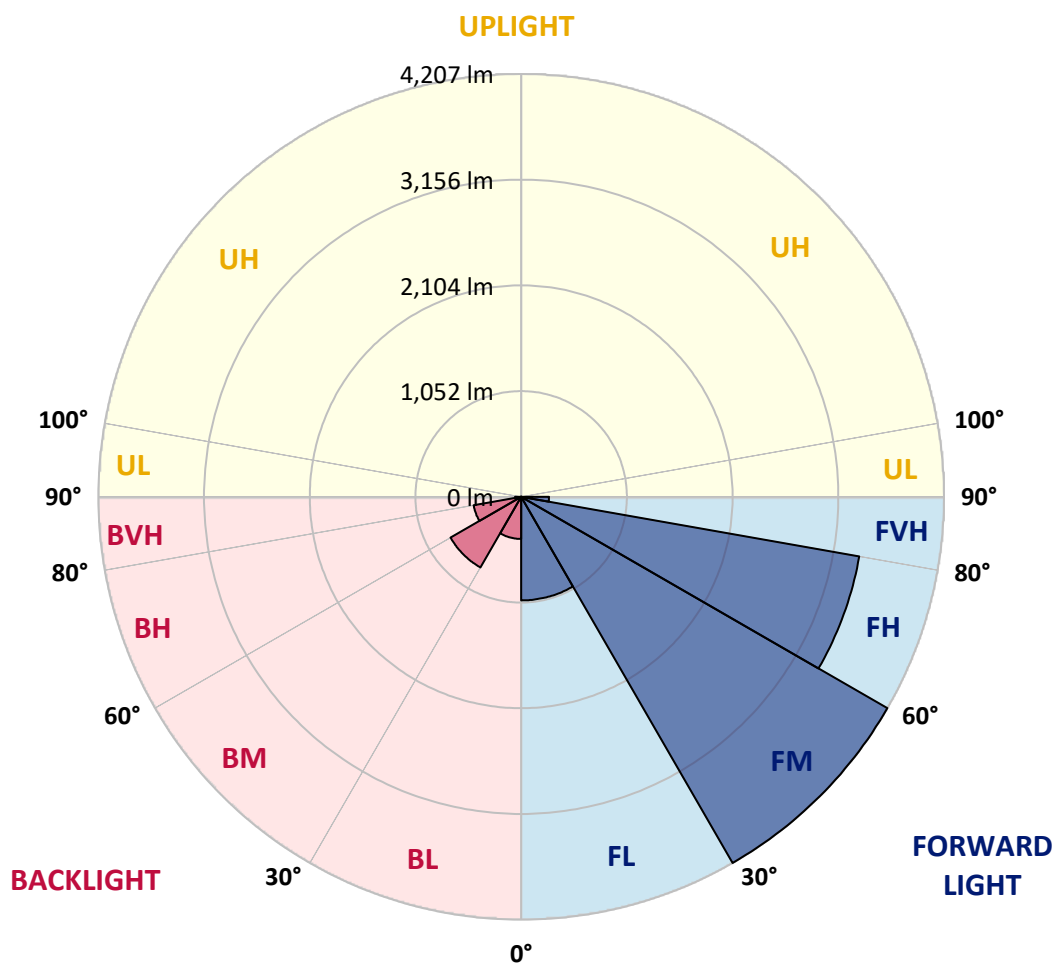
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1030.7	9.6			
FM	(30°-60°)	4207.4	39.3			
FH	(60°-80°)	3416.0	31.9			G2/5000
FVH	(80°-90°)	277.7	2.6			G3/500
BL	(0°-30°)	419.0	3.9	B1/500		
BM	(30°-60°)	811.5	7.6	B1/1000		
BH	(60°-80°)	480.2	4.5	B1/500		G1/500
BVH	(80°-90°)	60.4	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°	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0
2.5°	3757.3	3817.3	3934.4	4022.0	4128.5	4153.2	4187.3	4153.8	4094.4	4015.5	3989.7
5°	3533.1	3661.4	3945.5	4195.6	4418.0	4521.5	4550.4	4465.1	4292.7	4066.1	3927.9
7.5°	3173.6	3356.0	3740.8	4109.1	4436.8	4630.4	4625.7	4427.4	4110.3	3741.4	3519.6
10°	2863.5	3071.8	3513.1	3924.9	4272.7	4460.3	4388.0	4134.4	3756.1	3331.3	3090.6
12.5°	2690.0	2894.1	3341.9	3755.5	4046.1	4110.9	4055.6	3807.3	3450.7	3021.2	2810.6
15°	2660.0	2884.1	3273.6	3610.2	3773.1	3716.7	3650.8	3539.6	3287.7	2921.2	2701.7
17.5°	2790.0	3037.1	3351.9	3509.0	3481.3	3383.1	3364.2	3376.6	3316.0	3032.4	2779.4
20°	3039.5	3336.0	3538.4	3461.3	3259.5	3124.2	3128.9	3317.8	3497.2	3314.2	3025.3
22.5°	3389.5	3727.8	3807.3	3486.6	3166.0	3005.3	3044.2	3350.1	3786.1	3726.1	3357.2
25°	3842.6	4150.9	4093.8	3578.4	3175.4	3020.0	3051.2	3461.9	4127.3	4137.9	3767.8
27.5°	4281.5	4567.4	4334.4	3700.2	3214.2	3054.8	3095.9	3637.8	4453.3	4585.1	4237.4
30°	4623.9	4822.8	4429.7	3811.4	3290.7	3122.4	3173.6	3804.9	4601.6	4886.9	4598.6
32.5°	4907.5	5050.5	4581.5	3949.1	3431.3	3228.9	3318.9	4007.9	4815.1	5174.0	4952.2
35°	5269.9	5310.5	4770.4	4102.6	3648.4	3414.2	3526.0	4206.8	5018.7	5464.1	5300.5
37.5°	5694.7	5642.4	4948.7	4312.7	3929.1	3704.3	3796.7	4425.0	5186.4	5793.0	5656.5
40°	6114.8	5988.9	5172.3	4638.6	4338.6	4046.1	4155.6	4658.0	5342.9	6122.5	6004.2
42.5°	6471.9	6285.4	5392.9	4996.9	4719.8	4423.3	4553.9	4892.8	5492.3	6403.7	6306.0
45°	6736.1	6504.3	5602.9	5341.1	5245.2	4924.6	4986.3	5161.7	5654.1	6638.4	6554.3
47.5°	6972.0	6724.3	5840.6	5688.2	5704.7	5576.5	5477.0	5474.7	5844.8	6830.3	6789.1
50°	7288.0	7029.7	6096.0	6046.0	6394.3	6309.0	6089.5	5840.0	6086.0	7047.9	7043.2
52.5°	7723.4	7513.3	6407.8	6431.3	7037.9	7093.8	6822.0	6279.0	6463.7	7447.4	7419.2
55°	8238.2	8115.8	6832.6	6874.4	7827.5	7867.5	7597.5	6827.9	7019.1	8025.8	7947.5
57.5°	8640.0	8614.2	7298.6	7406.3	8417.1	8597.1	8348.8	7463.3	7645.1	8513.0	8316.4
60°	8800.1	8925.4	7794.6	7942.8	8962.5	9161.9	8944.2	8021.7	8199.9	8714.8	8291.1
62.5°	8713.6	8993.6	8322.9	8310.6	9084.3	9299.0	9146.0	8332.3	8611.2	8506.5	7871.6
65°	8314.1	8748.3	8629.5	8215.8	8667.7	8685.3	8635.9	8193.5	8708.3	7848.1	7060.9
67.5°	7443.9	8068.7	8225.8	7403.9	7543.9	7429.2	7346.2	7433.3	8202.3	6861.4	5934.2
70°	6063.0	7003.2	7078.5	5921.8	5858.3	5781.2	5615.9	6094.2	7203.9	5623.5	4708.6
72.5°	4458.0	5446.4	5677.7	4343.3	4049.1	4065.0	3934.4	4592.7	5857.1	4177.3	3515.4
75°	3050.0	3943.8	4442.1	3030.6	2677.6	2684.1	2667.6	3254.2	4665.1	2905.9	2630.5
77.5°	2228.1	2817.6	3350.1	2037.5	1978.1	1941.6	1932.8	2276.9	3576.6	2109.9	2042.8
80°	1788.0	2081.6	2250.5	1412.1	1518.6	1515.6	1466.8	1565.6	2335.8	1543.3	1528.0
82.5°	1240.3	1599.7	1823.3	1106.7	1024.9	1007.9	1019.6	1166.1	1650.9	1054.9	1003.2
85°	654.3	1062.6	1805.7	980.8	608.4	485.4	603.7	954.9	1430.3	558.9	489.5
87.5°	83.5	307.1	1195.5	391.3	240.1	129.4	286.5	537.8	918.4	114.1	99.4
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°	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0
2.5°	3923.2	3844.9	3742.5	3647.8	3549.6	3451.9	3324.2	3244.2	3188.9	3178.3	3154.8
5°	3827.9	3567.8	3371.3	3201.3	3047.1	2829.4	2708.8	2608.8	2555.2	2549.9	2537.0
7.5°	3388.4	3029.5	2764.1	2523.5	2305.2	2129.3	1935.1	1844.5	1807.4	1816.3	1825.1
10°	2931.2	2529.9	2225.2	1979.2	1786.8	1638.6	1482.7	1377.3	1304.4	1289.7	1286.7
12.5°	2597.0	2156.9	1861.0	1687.4	1538.6	1399.1	1233.8	1109.6	1014.9	982.6	960.8
15°	2455.8	1974.5	1664.5	1477.4	1313.2	1136.1	982.6	852.5	765.5	737.2	721.3
17.5°	2485.8	1923.9	1529.1	1289.7	1079.6	894.9	701.3	590.1	537.8	524.2	524.2
20°	2643.5	1914.5	1417.4	1116.7	854.9	640.7	481.9	418.3	401.3	399.5	404.2
22.5°	2864.7	1947.5	1333.8	966.7	664.3	467.7	375.4	351.8	344.2	346.0	351.2
25°	3194.2	2058.7	1273.2	833.1	521.3	383.0	334.8	320.7	317.1	321.8	328.3
27.5°	3584.9	2169.9	1235.6	732.5	440.1	350.1	318.3	303.6	305.9	311.8	317.7
30°	3927.9	2261.1	1176.1	660.7	414.8	351.8	318.3	298.3	295.9	297.1	298.9
32.5°	4235.6	2322.8	1106.7	592.5	357.7	312.4	297.1	294.2	281.2	276.5	277.1
35°	4500.9	2322.8	1064.9	552.5	320.7	277.1	252.4	237.7	231.2	231.8	238.3
37.5°	4756.9	2276.4	1044.3	530.1	300.7	263.6	241.8	228.9	220.0	218.3	219.5
40°	4982.8	2208.7	1020.8	520.7	285.4	255.3	234.8	224.2	214.8	211.8	212.4
42.5°	5164.0	2154.0	994.9	508.3	275.9	249.5	230.0	220.6	210.0	207.1	206.5
45°	5359.9	2135.7	960.8	483.6	280.6	250.1	228.9	218.9	208.3	204.7	203.6
47.5°	5618.2	2192.8	925.5	454.2	290.6	253.0	230.6	218.9	207.7	204.7	203.6
50°	5943.6	2327.0	880.8	411.3	280.6	261.2	230.0	217.1	207.7	204.7	202.4
52.5°	6361.3	2508.2	821.9	361.8	274.8	281.2	228.9	213.6	204.7	200.6	196.5
55°	6869.1	2656.4	751.9	321.2	261.2	275.9	227.1	209.5	200.0	194.2	190.6
57.5°	7240.9	2710.0	661.9	294.8	242.4	267.1	224.8	204.2	194.2	189.5	184.7
60°	7167.4	2606.4	586.0	278.3	231.2	241.2	223.0	199.5	188.9	185.3	181.2
62.5°	6578.4	2335.8	537.2	270.6	224.2	220.0	224.8	194.7	184.2	180.6	179.4
65°	5695.3	1936.3	517.8	268.9	218.3	207.7	208.9	189.5	178.9	175.9	174.7
67.5°	4698.0	1562.7	500.7	274.8	210.6	198.9	193.0	182.4	173.6	170.6	168.3
70°	3704.9	1299.7	493.0	271.2	201.2	190.0	183.6	174.7	167.1	164.2	162.4
72.5°	2983.6	1097.9	488.9	267.7	188.9	178.3	172.4	164.7	156.5	155.3	153.6
75°	2524.6	863.1	447.7	256.5	174.7	164.2	160.0	153.0	144.7	144.7	143.6
77.5°	1947.5	624.2	372.4	227.1	160.0	148.3	144.7	139.4	130.0	131.8	131.2
80°	1438.5	407.1	291.2	188.3	141.8	130.6	128.9	123.6	113.6	115.9	115.9
82.5°	985.5	267.1	209.5	154.1	121.2	110.6	110.6	105.3	94.1	95.3	98.8
85°	494.8	183.6	156.5	119.4	94.1	88.8	88.8	84.7	73.5	74.1	78.8
87.5°	150.6	110.6	103.6	85.3	67.7	66.5	63.5	60.6	53.5	53.0	55.9
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0
2.5°	3118.9	3085.4	3044.8	2955.3	2925.3	2923.6	2950.6	2922.4	2976.5	2953.6	2978.9
5°	2515.2	2482.3	2437.0	2322.8	2253.4	2206.3	2184.0	2118.1	2165.7	2131.0	2159.9
7.5°	1849.8	1857.4	1827.4	1760.4	1609.2	1533.3	1488.5	1448.5	1483.3	1479.7	1535.0
10°	1300.3	1320.9	1299.7	1232.0	1109.6	1067.9	1076.1	1092.0	1137.3	1160.8	1246.1
12.5°	936.1	934.9	921.4	860.8	780.2	784.9	818.4	846.1	887.8	912.5	999.6
15°	699.0	688.4	682.5	633.1	587.2	597.2	613.7	616.6	643.1	657.8	728.4
17.5°	528.3	533.6	540.1	504.8	470.1	463.6	450.7	434.8	442.4	445.4	480.7
20°	419.5	440.7	456.6	431.9	396.6	377.7	361.3	350.7	350.7	350.1	360.1
22.5°	366.5	381.8	398.9	381.8	350.1	333.6	324.2	315.9	314.8	314.8	324.2
25°	337.7	348.9	365.4	353.6	330.1	317.7	308.9	298.3	294.2	293.0	299.5
27.5°	323.6	328.3	336.5	326.0	305.9	300.1	297.7	288.3	283.0	280.1	286.5
30°	299.5	298.3	298.9	288.3	272.4	271.8	275.9	277.7	275.9	275.4	285.4
32.5°	277.1	274.8	274.2	264.8	250.1	246.5	250.1	253.6	257.7	263.6	275.4
35°	248.9	254.8	258.3	250.1	232.4	221.8	217.7	211.2	207.7	207.7	221.2
37.5°	226.5	240.1	245.3	237.7	218.3	203.6	196.5	195.3	195.9	198.3	211.2
40°	218.9	228.9	233.6	225.9	206.5	193.0	188.9	187.7	188.9	192.4	205.3
42.5°	214.2	221.2	220.6	211.2	195.3	185.9	183.6	182.4	183.6	187.1	201.2
45°	210.0	214.8	210.0	198.9	184.2	179.4	180.0	179.4	180.6	184.2	197.7
47.5°	206.5	208.3	202.4	191.2	175.9	174.7	177.1	178.9	180.0	183.0	197.1
50°	201.2	201.2	195.9	184.2	168.9	169.4	172.4	176.5	177.1	180.6	191.8
52.5°	194.7	194.2	190.6	179.4	163.0	164.7	164.7	169.4	170.6	174.7	186.5
55°	189.5	188.3	186.5	175.9	157.7	160.6	158.9	160.6	163.6	167.7	180.6
57.5°	184.7	182.4	182.4	173.0	153.6	154.7	150.6	153.0	156.5	160.0	173.6
60°	180.0	177.7	178.9	168.9	147.1	145.9	144.1	148.9	150.0	154.1	167.7
62.5°	174.7	173.0	173.6	164.2	142.4	139.4	139.4	143.6	144.1	150.0	163.0
65°	170.6	168.3	167.7	159.4	137.1	133.6	135.3	137.1	138.3	144.1	156.5
67.5°	166.5	161.8	161.8	155.3	131.2	127.7	131.2	130.6	132.4	137.7	147.7
70°	161.2	154.7	155.3	152.4	125.3	121.2	124.1	123.6	124.7	128.3	138.3
72.5°	153.0	147.7	148.9	147.7	119.4	113.6	114.7	114.7	114.7	117.7	128.3
75°	142.4	138.3	141.8	144.7	112.4	104.1	105.3	105.3	103.6	105.3	118.3
77.5°	129.4	127.1	138.9	134.7	104.1	94.1	94.1	93.0	89.4	91.8	105.9
80°	115.3	113.6	128.3	113.0	94.7	81.8	80.6	77.7	74.1	75.9	90.0
82.5°	100.6	98.8	107.7	86.5	81.8	67.7	64.7	59.4	55.9	57.7	70.6
85°	82.4	82.4	83.0	65.3	62.4	51.8	48.2	41.2	37.1	38.2	50.6
87.5°	58.8	60.6	55.9	44.7	37.1	28.8	26.5	22.4	18.8	21.8	26.5
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°	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0
2.5°	3108.3	3173.0	3246.6	3340.7	3421.3	3553.7	3680.8	3757.3
5°	2324.0	2431.7	2565.8	2738.2	2898.8	3140.1	3379.5	3533.1
7.5°	1663.3	1778.6	1923.3	2138.7	2365.8	2673.5	2990.0	3173.6
10°	1376.2	1494.4	1616.2	1761.5	1947.5	2282.2	2656.4	2863.5
12.5°	1138.5	1265.0	1396.2	1549.1	1721.5	2020.4	2451.7	2690.0
15°	871.4	1012.6	1167.3	1360.9	1576.8	1922.2	2401.1	2660.0
17.5°	597.2	754.9	944.9	1183.8	1447.9	1890.4	2491.7	2790.0
20°	411.3	526.0	729.0	1009.0	1326.7	1886.3	2665.9	3039.5
22.5°	344.2	395.4	543.6	848.4	1235.6	1936.9	2935.9	3389.5
25°	318.3	348.9	434.2	709.0	1169.1	2053.4	3307.8	3842.6
27.5°	303.0	330.7	394.2	617.8	1116.7	2188.7	3669.6	4281.5
30°	308.9	337.1	383.0	571.3	1045.5	2301.7	3990.8	4623.9
32.5°	278.3	290.6	328.3	530.1	994.3	2396.4	4272.1	4907.5
35°	237.1	258.9	293.0	510.7	995.5	2459.9	4578.6	5269.9
37.5°	225.9	247.7	272.4	503.6	1009.0	2527.6	4930.4	5694.7
40°	218.9	238.9	260.1	499.5	1022.0	2589.4	5275.2	6114.8
42.5°	214.2	232.4	258.9	485.4	1028.5	2644.7	5558.8	6471.9
45°	213.6	232.4	263.6	471.3	1038.5	2704.1	5796.5	6736.1
47.5°	214.2	240.1	254.8	454.2	1038.5	2803.5	6075.4	6972.0
50°	211.8	253.0	245.3	430.1	1014.3	2991.8	6457.8	7288.0
52.5°	210.6	251.2	227.1	393.0	972.6	3290.7	6947.9	7723.4
55°	207.7	242.4	214.2	337.7	923.7	3616.6	7472.7	8238.2
57.5°	204.7	214.8	207.1	289.5	848.4	3846.1	7834.0	8640.0
60°	229.5	187.7	201.2	265.9	747.8	3909.1	7819.9	8800.1
62.5°	212.4	175.9	193.6	260.6	677.2	3732.5	7458.6	8713.6
65°	166.5	168.3	185.9	275.9	658.4	3264.8	6818.5	8314.1
67.5°	152.4	160.6	178.3	295.4	660.1	2614.1	5861.8	7443.9
70°	143.6	152.4	169.4	305.4	664.8	1948.6	4634.5	6063.0
72.5°	133.6	141.2	159.4	307.1	634.3	1415.6	3571.9	4458.0
75°	121.8	128.9	145.3	267.7	525.4	982.0	2732.3	3050.0
77.5°	108.3	113.6	127.7	206.5	390.1	628.4	2051.0	2228.1
80°	92.4	95.3	107.1	151.2	267.1	393.0	1622.7	1788.0
82.5°	74.1	75.3	83.0	113.6	173.6	252.4	1086.7	1240.3
85°	52.4	52.4	57.1	82.4	118.3	160.0	590.1	654.3
87.5°	24.7	25.3	25.3	45.3	61.8	81.2	135.9	83.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)