

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: P324287

Luminaire Tested: **GLEON-SA3C-827-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3C-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11768 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 166
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

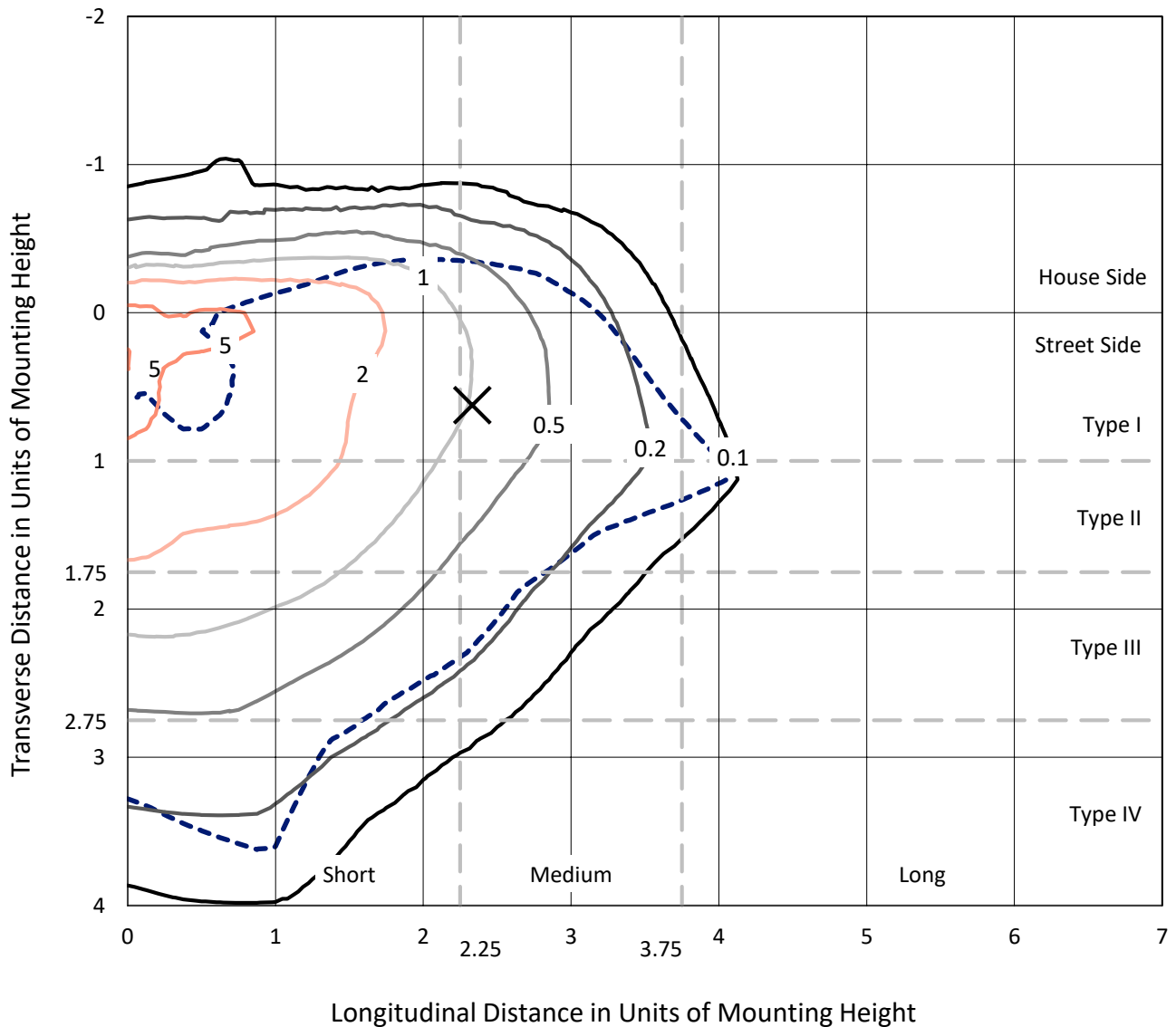




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Iso-Footcandle Lines of Horizontal Illumination

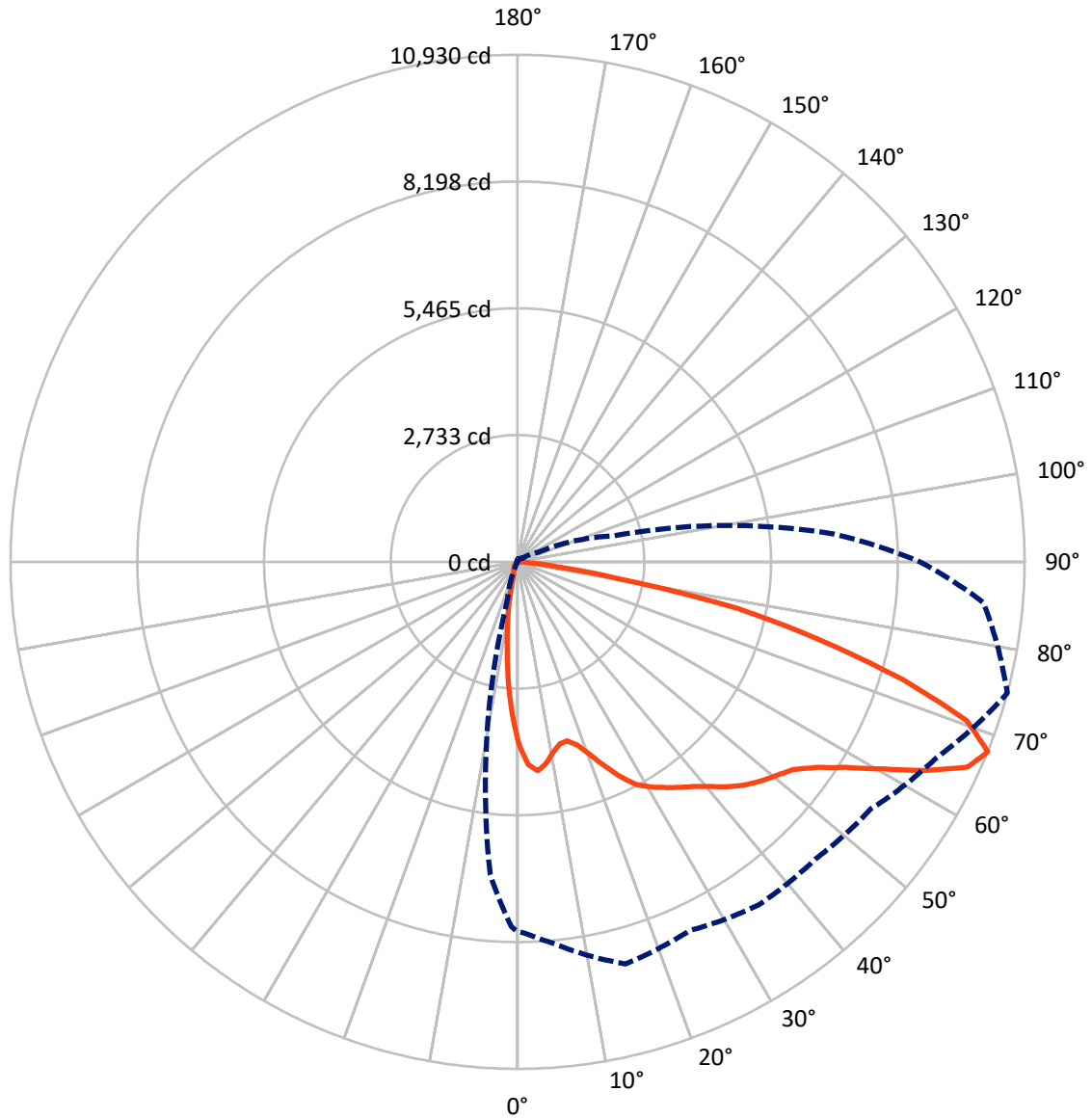
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1765.9	0.0	1765.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	10002.1	0.0	10002.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	11768.0	0.0	11768.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.5	2.5
10°-20°	589.7	5.0
20°-30°	834.2	7.1
30°-40°	1226.5	10.4
40°-50°	1762.9	15.0
50°-60°	2481.7	21.1
60°-70°	2898.4	24.6
70°-80°	1478.7	12.6
80°-90°	196.4	1.7
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°	11768.0	100.0
0°-180°	11768.0	100.0

Coefficient of Utilization



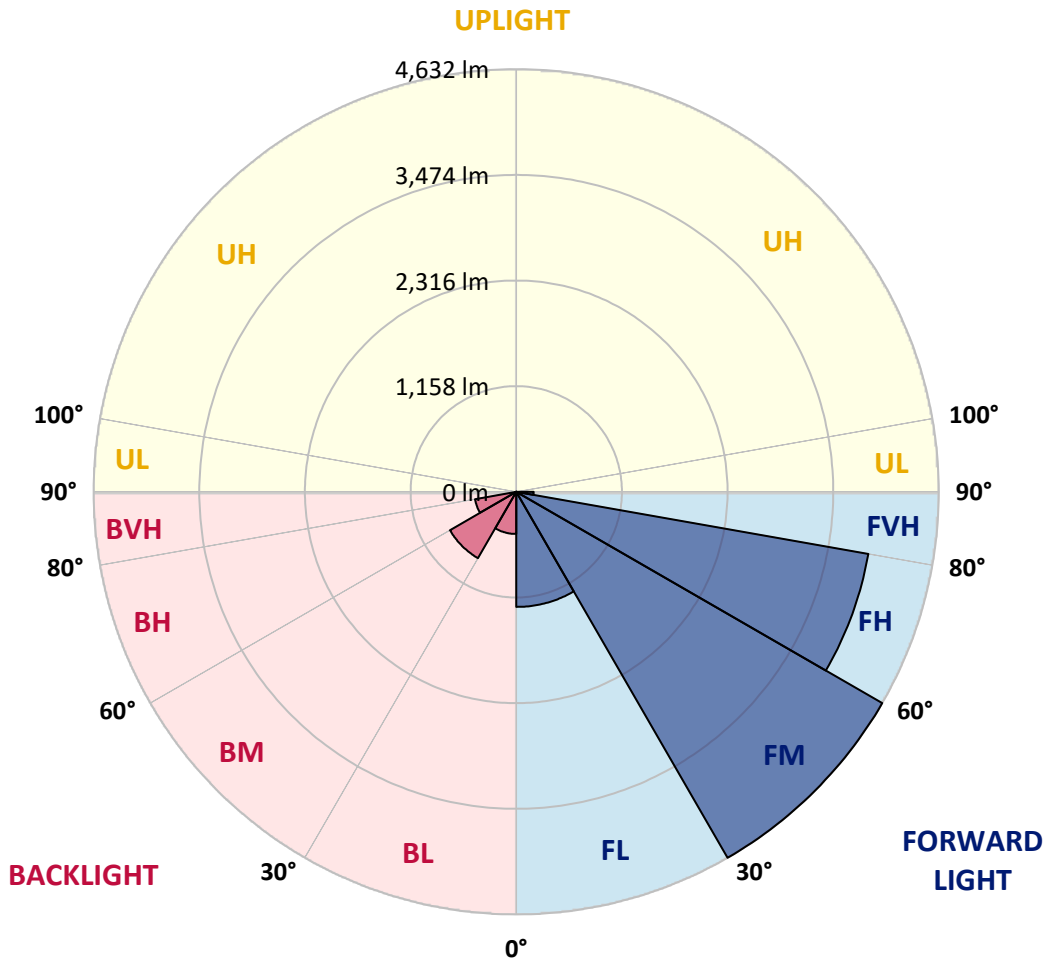
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1261.5	10.7			
FM (30°-60°)	4631.7	39.4			
FH (60°-80°)	3918.4	33.3			G2/5000
FVH (80°-90°)	190.5	1.6			G2/225
BL (0°-30°)	461.8	3.9	B1/500		
BM (30°-60°)	839.5	7.1	B1/1000		
BH (60°-80°)	458.7	3.9	B1/500		G1/500
BVH (80°-90°)	6.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3948.0	3948.0	3948.0	3948.0	3948.0	3948.0	3948.0	3948.0	3948.0	3948.0	3948.0
2.5°	4279.7	4286.3	4320.9	4401.2	4488.7	4495.4	4554.5	4493.7	4473.1	4375.0	4273.5
5°	4312.0	4337.6	4456.4	4692.2	4896.8	4962.5	5009.4	4890.1	4764.6	4524.9	4269.1
7.5°	4051.7	4094.6	4281.3	4724.0	5089.6	5251.3	5282.0	5095.2	4788.1	4393.4	4008.7
10°	3718.3	3767.3	3992.6	4536.6	5038.9	5316.0	5358.3	5113.6	4672.1	4180.4	3727.2
12.5°	3448.5	3505.9	3736.1	4325.9	4864.4	5171.0	5254.7	5051.7	4571.8	4029.4	3534.9
15°	3324.2	3389.9	3631.9	4189.9	4671.0	4912.4	4981.5	4894.0	4516.0	4005.4	3490.3
17.5°	3395.5	3466.9	3716.6	4201.6	4489.3	4592.4	4648.1	4683.8	4516.0	4149.8	3620.7
20°	3688.2	3765.1	4029.4	4320.3	4338.7	4300.3	4359.9	4485.4	4568.4	4424.0	3934.0
22.5°	4092.9	4183.2	4481.5	4523.8	4265.2	4119.7	4127.5	4324.3	4663.7	4771.9	4368.8
25°	4586.3	4696.6	4999.9	4827.1	4295.8	4012.1	4009.3	4191.6	4756.8	5120.3	4853.3
27.5°	5076.3	5197.8	5464.3	5197.2	4422.4	3992.6	3987.0	4151.4	4847.7	5430.3	5382.3
30°	5487.1	5605.3	5835.0	5465.4	4558.9	4038.3	4011.5	4194.4	4901.8	5631.5	5768.1
32.5°	5821.6	5916.4	6102.0	5649.9	4705.0	4126.9	4068.9	4309.2	4993.8	5801.5	6122.6
35°	6189.5	6289.3	6363.5	5825.5	4868.9	4254.6	4171.5	4491.5	5135.4	5974.3	6511.2
37.5°	6609.3	6708.5	6699.6	5986.1	5076.8	4465.8	4412.9	4780.3	5355.6	6145.5	6944.9
40°	7020.1	7121.6	7049.1	6161.7	5321.0	4814.3	4775.2	5214.0	5650.5	6364.6	7453.3
42.5°	7404.8	7514.6	7359.6	6327.8	5612.0	5253.5	5320.4	5772.5	6019.5	6634.4	7891.5
45°	7714.7	7826.8	7620.0	6489.4	5918.6	5786.5	5987.7	6391.3	6463.2	6862.4	8187.5
47.5°	7940.0	8045.9	7800.6	6651.1	6311.1	6438.2	6788.8	7040.2	6864.1	7060.3	8397.6
50°	8083.8	8166.3	7853.6	6853.5	6826.2	7198.5	7623.3	7746.0	7241.5	7238.7	8653.0
52.5°	8175.2	8212.6	7892.6	7064.7	7363.5	8026.4	8440.6	8479.0	7630.0	7434.9	8996.9
55°	8490.2	8520.3	8169.1	7320.6	7807.8	8751.6	9179.8	9144.1	8069.9	7819.0	9402.8
57.5°	9027.6	9059.4	8740.5	7688.5	8167.4	9199.8	9715.5	9779.6	8585.5	8358.6	9837.6
60°	9297.4	9356.5	9242.8	8154.6	8515.8	9486.4	10080.6	10285.2	9229.9	9069.9	10259.0
62.5°	9052.7	9138.5	9303.5	8671.4	8862.0	9644.1	10194.4	10466.4	9890.0	9898.9	10518.8
65°	8564.3	8632.9	8912.7	8954.6	9062.7	9624.6	9913.4	10213.3	10294.1	10660.4	10504.9
67.5°	7974.5	8000.2	8237.7	8976.8	8771.7	9038.2	9069.4	9291.3	9974.7	10930.2	10082.9
70°	7125.5	7139.4	7346.8	8230.4	7538.0	7596.6	7550.3	7595.5	8575.5	10273.0	9017.5
72.5°	5734.6	5769.8	6064.7	6835.1	5491.6	5322.7	5686.1	5666.1	6604.3	8679.2	6697.4
75°	4222.2	4283.0	4728.4	5505.5	3854.3	3486.4	3751.7	3822.5	4695.0	6713.5	4188.2
77.5°	2956.2	3001.4	3432.9	4047.2	2789.6	2493.0	2397.1	2481.3	3098.9	4856.6	2110.0
80°	1703.1	1719.8	1995.2	2336.9	1879.8	2150.7	1948.3	2006.3	1856.9	2160.7	907.6
82.5°	1114.4	1117.2	1224.7	1390.9	1170.7	1360.2	1006.8	1287.2	1142.2	868.0	295.5
85°	602.1	605.4	710.2	987.3	662.8	374.6	220.2	452.1	706.3	199.0	80.8
87.5°	66.3	60.8	214.1	359.0	184.0	34.0	11.7	50.7	113.2	12.8	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3948.0	3948.0	3948.0	3948.0	3948.0	3948.0	3948.0	3948.0	3948.0	3948.0	3948.0
2.5°	4221.7	4175.4	4060.0	3937.9	3839.8	3747.8	3655.3	3542.1	3454.6	3436.8	3407.8
5°	4131.4	3984.8	3742.8	3499.8	3304.1	3057.1	2900.5	2778.4	2659.1	2651.9	2627.9
7.5°	3815.8	3623.0	3282.4	2946.2	2670.8	2435.6	2198.1	2039.2	1914.3	1870.3	1844.1
10°	3512.6	3295.7	2870.4	2486.8	2241.0	2033.1	1865.8	1699.7	1549.2	1445.5	1398.7
12.5°	3300.7	3061.0	2592.2	2261.6	2085.5	1888.1	1684.1	1476.7	1303.4	1178.5	1102.1
15°	3218.8	2962.9	2499.1	2172.4	1955.0	1705.3	1444.4	1207.5	1015.1	902.0	833.4
17.5°	3316.4	3018.7	2491.9	2063.7	1759.9	1449.4	1161.2	881.4	700.2	614.3	570.3
20°	3563.9	3195.9	2489.1	1930.5	1528.0	1146.1	786.6	579.8	469.9	422.0	401.4
22.5°	3914.0	3422.3	2511.4	1798.9	1286.6	818.9	543.0	425.9	369.6	344.0	332.2
25°	4364.4	3740.0	2574.4	1679.6	1059.7	611.0	423.1	356.8	317.2	297.1	288.8
27.5°	4844.4	4105.7	2672.5	1576.0	875.2	487.2	362.4	305.5	277.1	263.1	255.3
30°	5240.2	4529.4	2771.7	1460.6	741.4	424.8	331.7	278.7	245.8	236.9	229.7
32.5°	5586.4	4849.9	2842.0	1356.3	653.9	377.4	299.9	249.2	226.9	209.6	201.8
35°	5944.8	5117.0	2839.7	1283.3	593.7	341.7	273.2	223.0	196.2	176.2	170.0
37.5°	6332.8	5418.6	2791.2	1220.8	567.5	313.3	258.1	209.0	182.3	162.2	154.4
40°	6787.1	5735.2	2741.6	1162.3	560.3	290.4	247.5	197.9	169.5	150.0	142.2
42.5°	7229.8	6020.6	2698.1	1118.8	529.0	289.9	238.0	189.5	159.4	140.5	131.6
45°	7583.7	6286.5	2689.8	1092.6	496.1	299.9	233.0	184.0	151.6	132.7	124.3
47.5°	7878.1	6575.3	2743.3	1074.2	464.9	273.7	245.3	180.1	144.4	126.0	116.5
50°	8228.2	6929.8	2869.3	1044.1	432.0	246.4	281.0	181.2	138.3	119.3	109.3
52.5°	8716.5	7420.4	3054.3	993.4	386.9	221.3	276.5	182.3	131.6	112.1	102.0
55°	9263.9	8033.1	3253.4	909.2	323.9	188.4	236.9	174.5	118.7	104.2	94.8
57.5°	9839.2	8588.9	3371.5	808.9	257.5	162.8	189.5	158.9	104.8	93.7	87.5
60°	9929.6	8800.1	3317.5	685.7	204.6	141.6	140.5	161.7	93.7	82.5	78.0
62.5°	9704.9	8534.8	3056.0	575.9	171.1	124.3	115.4	141.0	84.7	73.6	69.1
65°	9272.9	7817.3	2632.3	519.0	158.9	106.5	95.9	99.2	74.1	64.1	60.2
67.5°	8671.9	6859.6	2161.3	486.7	157.2	91.4	81.9	75.3	64.1	55.7	52.4
70°	7443.3	5714.6	1724.2	468.8	152.7	76.9	69.1	61.3	53.5	47.4	44.6
72.5°	5478.2	4049.4	1341.3	449.3	153.9	61.3	60.2	50.7	42.9	36.8	35.7
75°	3165.3	2313.5	879.7	364.0	146.6	47.4	50.2	35.7	30.1	25.6	25.6
77.5°	1686.9	1410.9	335.0	151.6	53.5	30.1	28.4	21.2	19.0	15.6	15.1
80°	735.3	621.0	100.9	42.4	29.5	16.2	10.6	9.5	8.4	6.7	6.1
82.5°	260.3	224.7	32.9	20.6	12.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	59.1	42.4	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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°	3948.0	3948.0	3948.0	3948.0	3948.0	3948.0	3948.0	3948.0	3948.0	3948.0	3948.0
2.5°	3348.7	3336.4	3264.0	3266.7	3279.6	3298.0	3254.5	3274.5	3328.6	3380.5	3400.0
5°	2589.4	2592.2	2548.2	2575.5	2600.0	2616.7	2546.5	2547.6	2590.5	2649.1	2679.7
7.5°	1824.6	1820.1	1822.4	1887.6	1933.8	1900.4	1926.6	1835.7	1841.3	1883.1	1851.9
10°	1356.3	1295.0	1260.4	1309.5	1360.2	1341.8	1296.7	1267.1	1287.7	1334.0	1330.7
12.5°	1065.9	977.8	925.9	890.8	932.6	898.1	897.0	871.3	843.4	848.5	922.6
15°	801.6	737.5	676.2	619.9	618.8	607.1	547.4	480.5	475.0	478.3	516.8
17.5°	551.3	529.6	504.5	456.0	443.2	394.1	336.2	309.4	296.0	302.1	315.0
20°	387.4	379.1	381.9	355.7	337.3	290.4	256.4	245.8	243.6	249.7	255.9
22.5°	321.1	306.0	304.4	292.7	274.3	240.3	221.9	215.7	213.0	218.5	223.0
25°	281.0	265.9	259.8	252.5	233.0	209.6	198.5	192.9	190.1	193.4	196.2
27.5°	247.5	233.6	228.0	223.0	204.0	187.3	178.4	173.4	171.1	172.3	175.0
30°	222.4	210.2	202.9	196.8	180.6	168.9	161.1	156.1	153.9	153.9	156.6
32.5°	196.2	189.5	182.8	175.0	160.0	152.2	144.4	138.8	136.6	137.1	139.4
35°	163.3	161.1	162.8	155.5	142.7	136.0	128.2	122.1	120.4	121.0	123.2
37.5°	144.9	134.9	141.0	137.1	129.9	121.0	110.9	105.4	102.6	104.2	105.4
40°	133.2	121.0	116.5	120.4	119.3	104.8	95.9	90.3	88.1	88.6	89.8
42.5°	123.2	108.7	98.7	98.1	104.8	91.4	81.9	76.9	74.1	74.1	75.3
45°	113.7	98.1	85.8	76.4	88.1	77.5	68.6	64.1	60.8	60.8	61.3
47.5°	106.5	89.2	74.7	62.4	66.3	63.6	56.3	51.8	48.5	48.5	49.1
50°	99.8	80.3	64.7	52.4	49.6	52.4	45.7	40.7	38.5	37.9	39.0
52.5°	92.5	71.4	55.2	44.6	39.0	39.6	35.7	32.3	29.5	29.5	30.7
55°	85.3	64.1	47.9	37.9	32.3	29.5	28.4	26.2	24.0	24.0	25.1
57.5°	78.0	56.3	40.7	31.2	25.6	23.4	23.4	21.7	20.1	20.1	21.2
60°	71.4	48.5	33.4	25.6	20.1	19.5	20.1	18.4	17.3	17.3	18.4
62.5°	63.6	41.3	27.3	21.2	16.2	15.6	17.3	16.2	15.1	15.1	16.2
65°	54.1	35.1	21.7	16.2	12.3	12.3	14.5	13.4	12.3	12.3	13.4
67.5°	45.7	29.5	16.7	11.7	8.9	9.5	12.3	11.1	10.6	10.6	11.7
70°	37.9	22.9	11.7	7.2	5.0	7.2	9.5	9.5	9.5	9.5	10.6
72.5°	28.4	15.6	6.7	2.8	2.2	5.0	7.8	8.9	8.4	8.4	10.0
75°	18.4	8.9	2.2	0.0	0.0	2.8	6.1	7.2	7.2	6.7	8.4
77.5°	10.6	2.8	0.0	0.0	0.0	0.0	3.9	3.3	2.8	2.2	3.9
80°	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3948.0	3948.0	3948.0	3948.0	3948.0	3948.0	3948.0	3948.0	3948.0	3948.0
2.5°	3478.6	3544.4	3636.9	3735.0	3886.1	4005.9	4123.6	4224.5	4263.5	4279.7
5°	2753.3	2849.8	2985.2	3159.2	3431.8	3677.0	3925.7	4176.0	4284.7	4312.0
7.5°	1975.7	2098.9	2271.1	2489.1	2808.5	3126.3	3473.6	3840.9	4009.3	4051.7
10°	1462.2	1612.7	1810.1	2039.8	2344.7	2671.4	3049.9	3469.7	3662.0	3718.3
12.5°	1037.4	1240.9	1505.2	1784.4	2048.7	2340.2	2723.2	3185.9	3387.7	3448.5
15°	609.3	806.1	1118.8	1492.9	1831.3	2126.7	2515.8	3040.4	3262.8	3324.2
17.5°	349.5	447.6	684.0	1101.0	1560.3	1969.5	2450.6	3076.6	3338.7	3395.5
20°	267.0	298.2	394.1	709.1	1243.7	1815.1	2450.6	3281.8	3604.6	3688.2
22.5°	233.6	256.4	295.5	423.1	915.4	1649.5	2479.0	3578.4	4000.4	4092.9
25°	207.4	228.0	261.5	318.3	624.4	1452.8	2546.5	3942.4	4466.4	4586.3
27.5°	185.6	205.1	235.2	278.7	427.0	1215.3	2637.4	4369.4	4980.4	5076.3
30°	166.1	184.5	211.8	242.5	329.5	946.0	2714.9	4771.9	5384.0	5487.1
32.5°	147.7	164.5	189.0	211.8	269.8	699.6	2723.2	5090.8	5719.0	5821.6
35°	130.4	145.5	167.8	185.6	223.5	552.4	2593.3	5367.3	6054.1	6189.5
37.5°	113.7	128.2	147.7	161.1	196.8	450.4	2394.9	5675.5	6483.9	6609.3
40°	98.1	110.9	131.0	139.9	186.2	346.2	2179.1	5998.9	6905.3	7020.1
42.5°	83.6	95.9	115.4	132.7	163.3	258.7	1946.1	6302.1	7284.4	7404.8
45°	69.7	82.5	102.0	140.5	135.5	193.4	1696.9	6503.4	7583.7	7714.7
47.5°	56.3	70.8	97.6	133.8	108.1	142.2	1499.6	6694.0	7810.6	7940.0
50°	45.2	59.6	109.8	119.3	88.6	108.7	1417.1	6864.6	7959.5	8083.8
52.5°	36.8	50.2	103.7	91.4	74.1	89.8	1461.7	7141.1	8097.2	8175.2
55°	30.7	39.6	62.4	63.6	63.0	76.4	1516.9	7538.0	8453.4	8490.2
57.5°	26.8	31.8	43.5	49.1	53.0	68.0	1518.0	8107.8	9004.7	9027.6
60°	22.9	27.9	36.2	39.6	45.7	60.8	1462.8	8306.8	9221.6	9297.4
62.5°	20.1	24.5	30.1	32.9	38.5	54.6	1333.5	8018.6	8923.9	9052.7
65°	17.8	22.3	25.1	27.9	34.0	49.1	1120.5	7442.1	8430.0	8564.3
67.5°	15.6	19.5	22.3	25.1	30.7	43.5	825.0	6772.6	7863.0	7974.5
70°	13.9	17.3	20.1	22.3	26.8	36.8	500.6	5746.9	7079.2	7125.5
72.5°	13.4	15.6	18.4	20.1	23.4	32.3	253.6	4223.4	5659.4	5734.6
75°	11.7	13.9	16.7	17.8	20.6	27.9	103.1	2773.9	4101.3	4222.2
77.5°	9.5	12.8	15.1	16.2	17.8	22.9	52.4	1772.7	2878.2	2956.2
80°	3.3	9.5	12.8	13.4	15.1	16.7	34.6	970.5	1669.6	1703.1
82.5°	0.0	6.1	10.0	9.5	10.6	12.8	22.3	461.6	1102.1	1114.4
85°	0.0	2.8	7.8	6.1	4.5	8.9	7.8	100.9	578.1	602.1
87.5°	0.0	0.0	0.6	2.8	2.2	3.3	1.1	0.6	52.4	66.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)