

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: P455945

Luminaire Tested: **GALN-SA7A-830-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455945
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-SA7A-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA 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: 21818 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 215
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

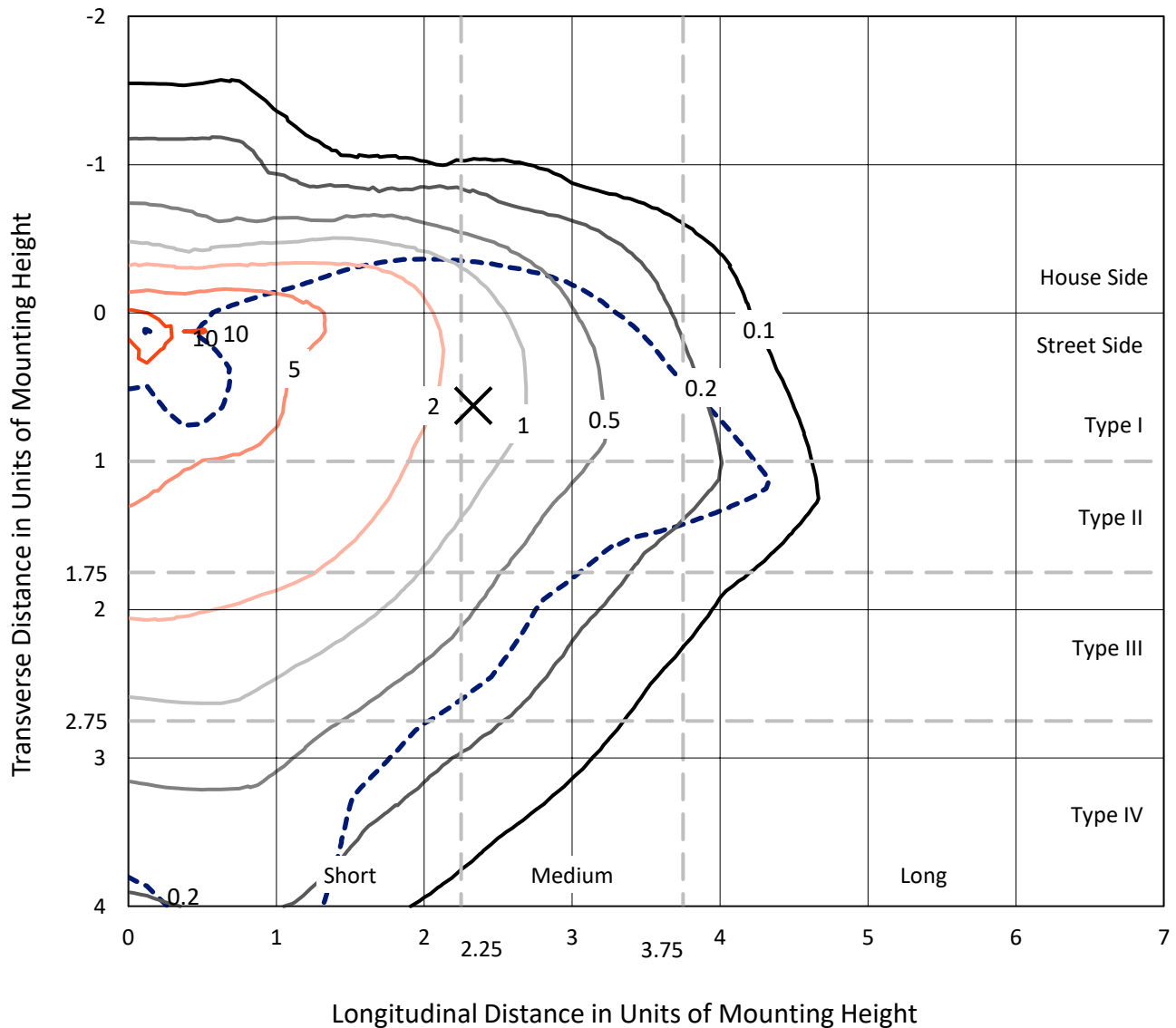


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Iso-Footcandle Lines of Horizontal Illumination

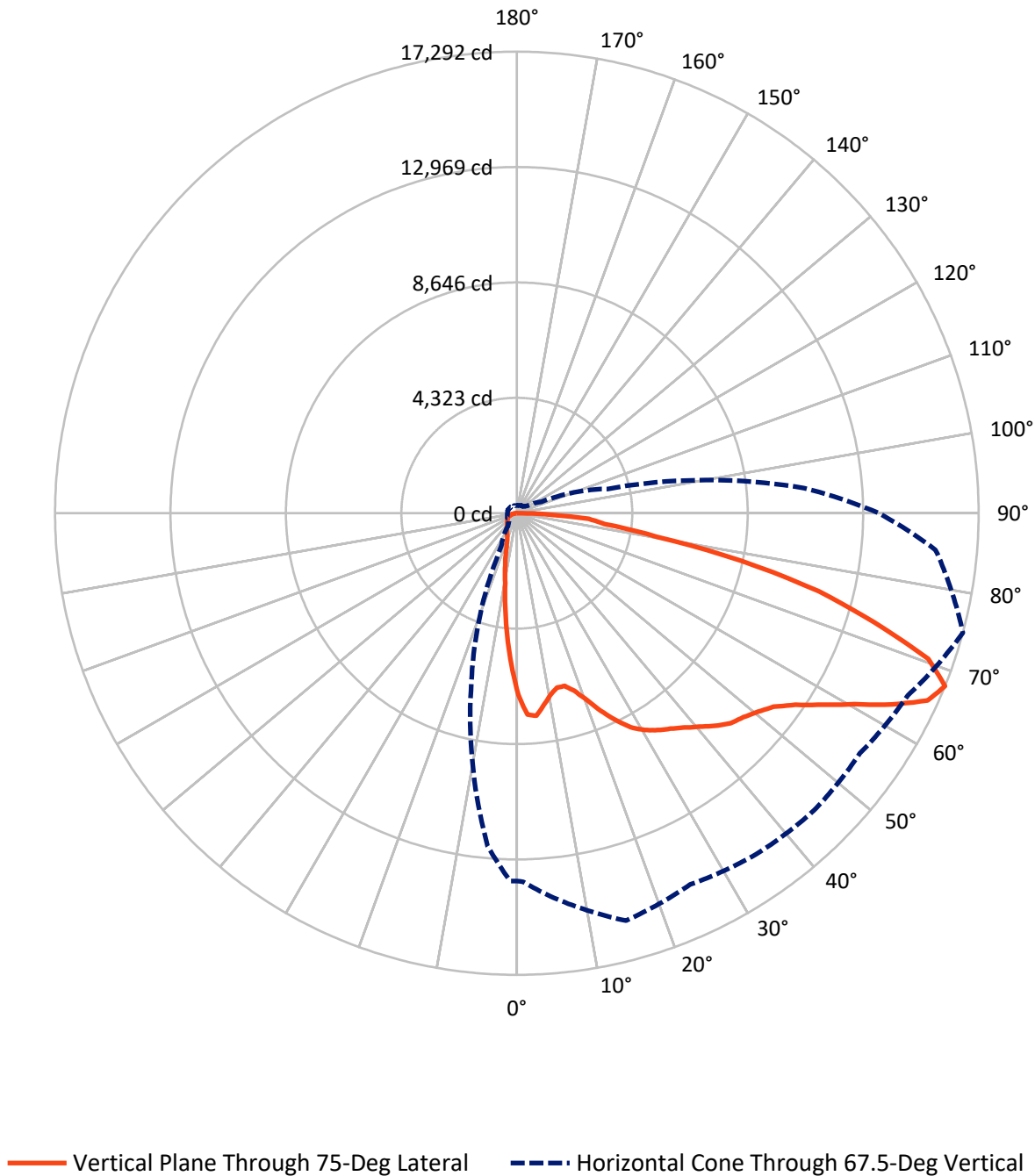
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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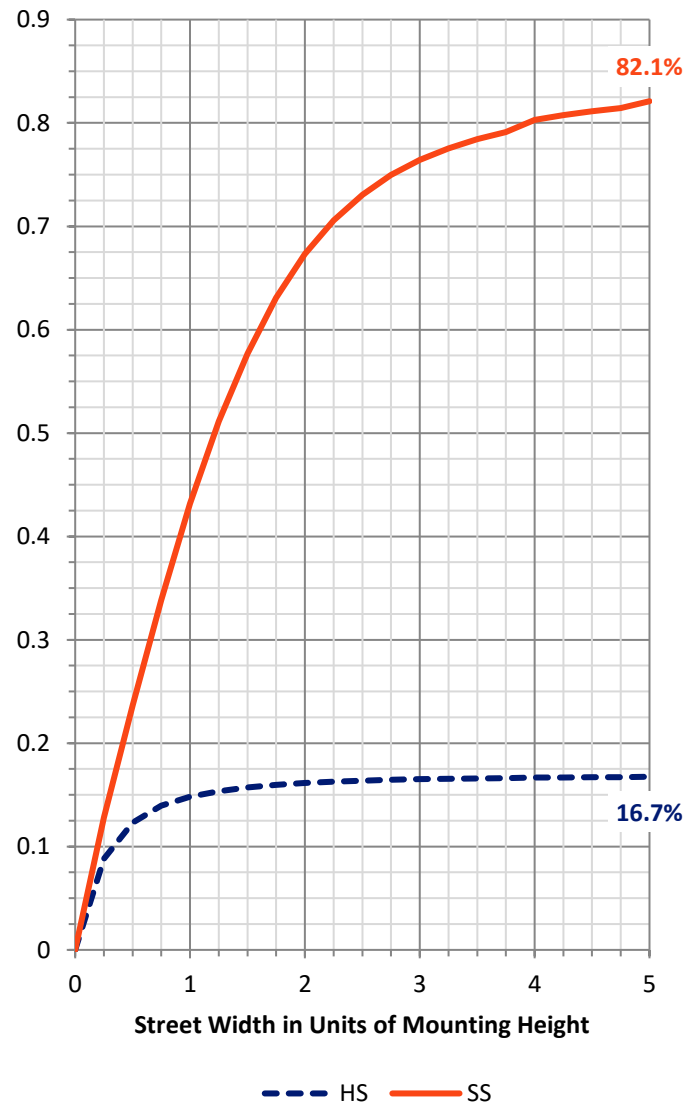
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3687.7	0.0	3687.7
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	18130.3	0.0	18130.3
	% Fixture	83.1	0.0	83.1
Total	Lumens	21818.0	0.0	21818.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.0	2.4
10°-20°	1078.2	4.9
20°-30°	1551.6	7.1
30°-40°	2234.7	10.2
40°-50°	3139.2	14.4
50°-60°	4378.1	20.1
60°-70°	5205.3	23.9
70°-80°	3065.6	14.1
80°-90°	648.3	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°	21818.0	100.0
0°-180°	21818.0	100.0

Coefficient of Utilization



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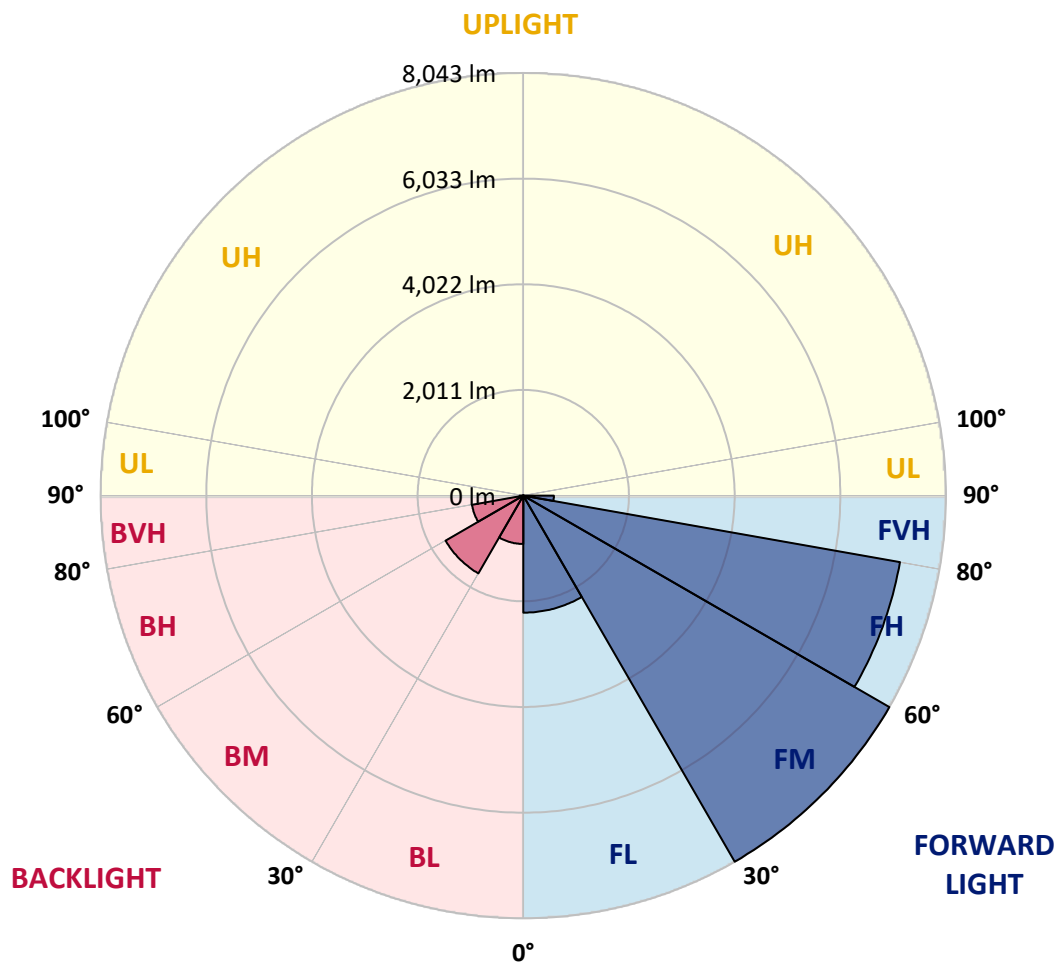
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2227.0	10.2			
FM	(30°-60°)	8043.5	36.9			
FH	(60°-80°)	7278.6	33.4			G3/7500
FVH	(80°-90°)	581.2	2.7			G4/750
BL	(0°-30°)	919.8	4.2	B2/1000		
BM	(30°-60°)	1708.5	7.8	B2/2500		
BH	(60°-80°)	992.3	4.5	B2/1000		G2/1000
BVH	(80°-90°)	67.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5
2.5°	7349.5	7359.3	7422.3	7605.6	7731.5	7777.6	7809.8	7749.7	7690.9	7548.2	7332.7
5°	7327.1	7384.5	7548.2	7959.5	8284.1	8424.0	8466.0	8285.5	7987.5	7620.9	7180.2
7.5°	6899.0	6976.0	7227.8	7917.6	8489.8	8817.2	8773.8	8447.8	7910.6	7257.2	6641.6
10°	6391.1	6476.5	6780.1	7614.0	8351.3	8801.8	8801.8	8404.4	7690.9	6914.4	6205.0
12.5°	5988.2	6077.7	6424.7	7302.0	8063.1	8489.8	8561.1	8219.8	7532.8	6697.5	5918.2
15°	5855.3	5942.0	6315.6	7113.1	7758.1	8018.3	8042.1	7930.2	7455.9	6712.9	5905.6
17.5°	6020.4	6132.3	6510.1	7169.0	7478.2	7493.6	7511.8	7600.0	7464.2	6994.1	6160.3
20°	6497.5	6617.8	7012.3	7349.5	7233.4	7073.9	7083.7	7310.3	7563.6	7458.7	6768.9
22.5°	7185.8	7290.8	7695.1	7667.1	7129.9	6801.1	6732.5	7048.7	7710.5	8037.9	7416.7
25°	7928.8	8051.9	8516.4	8138.6	7159.2	6638.8	6595.4	6894.8	7863.0	8579.3	8165.2
27.5°	8779.4	8899.7	9266.3	8614.3	7313.1	6626.2	6574.4	6880.8	8000.1	9080.2	8880.1
30°	9411.8	9522.3	9771.4	9014.5	7502.0	6710.1	6645.8	6991.3	8117.6	9423.0	9576.9
32.5°	9908.5	10023.2	10158.9	9263.5	7751.1	6862.6	6743.7	7192.8	8271.5	9684.6	10093.2
35°	10426.2	10561.9	10552.1	9484.6	7983.3	7038.9	6922.8	7483.8	8513.6	9912.7	10748.0
37.5°	11082.3	11136.9	11067.0	9683.2	8261.7	7356.5	7292.2	7916.2	8857.8	10188.3	11513.3
40°	11748.3	11857.4	11497.9	9923.9	8600.3	7953.9	7946.9	8555.6	9266.3	10511.5	12254.8
42.5°	12319.2	12411.5	11900.8	10133.7	9010.3	8682.9	8736.0	9413.2	9802.2	10886.5	12850.8
45°	12748.7	12831.2	12273.0	10336.6	9550.3	9525.1	9838.5	10332.4	10477.9	11223.7	13200.6
47.5°	13113.8	13193.6	12531.8	10644.4	10217.7	10531.1	11076.7	11290.8	11055.8	11416.7	13592.3
50°	13421.7	13445.4	12709.5	11011.0	11046.0	11763.7	12292.6	12431.1	11626.6	11693.8	13932.3
52.5°	13742.0	13711.3	13015.9	11472.7	11941.4	12933.4	13318.1	13462.2	12173.6	12035.1	14427.6
55°	14459.8	14489.2	13702.9	12054.7	12846.6	14082.0	14588.5	14450.0	12779.5	12663.3	15057.2
57.5°	15327.2	15302.1	14669.7	12965.5	13768.6	15151.0	15528.7	15306.3	13588.1	13526.6	15695.2
60°	15664.4	15698.0	15478.3	13944.9	14678.1	16087.0	16473.1	16127.5	14557.7	14529.7	16176.5
62.5°	15325.8	15514.7	15663.0	14816.6	15453.2	16775.3	17158.7	16764.1	15569.3	15772.2	16513.7
65°	14651.5	14692.0	15197.1	15555.3	15826.7	16888.6	17088.7	16878.9	16414.3	16904.0	16498.3
67.5°	13775.6	13810.6	14402.4	15797.3	15345.4	15601.5	15741.4	15679.8	16152.7	17291.6	15738.6
70°	12941.8	12913.8	13539.2	15180.3	13358.7	12969.7	13085.9	12892.8	13937.9	16344.4	14248.5
72.5°	11318.8	11419.5	12091.1	13465.0	10577.3	9944.9	10198.1	9698.6	10720.0	13998.1	11565.0
75°	8866.2	8889.9	10010.6	11300.6	7979.1	6981.6	7324.3	7115.9	8211.4	11677.0	7986.1
77.5°	6139.3	6086.1	7290.8	8631.1	5690.2	5110.9	5116.5	5017.2	5733.5	8597.5	5425.7
80°	3899.3	3818.2	4563.9	5332.0	3910.5	4183.3	4046.2	4042.0	3732.8	5304.0	3280.9
82.5°	2107.1	2196.6	2883.6	3342.5	2805.2	3233.3	2963.3	2876.6	2561.8	3320.1	2098.7
85°	959.8	1043.7	1537.6	2273.6	2130.8	2154.6	1439.7	1698.5	2119.7	2696.1	1120.7
87.5°	93.7	120.3	317.6	1073.1	727.5	573.6	214.1	412.7	533.1	958.4	89.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5
2.5°	7244.6	7171.8	6924.2	6719.9	6503.1	6338.0	6122.5	5978.4	5879.1	5729.4	5711.2
5°	6911.6	6733.9	6303.0	5863.7	5484.5	5199.1	4909.5	4643.6	4486.9	4438.0	4375.0
7.5°	6350.6	6051.1	5497.1	4993.4	4558.3	4133.0	3805.6	3573.3	3418.0	3327.1	3218.0
10°	5888.9	5541.9	4867.5	4250.5	3892.3	3627.9	3339.7	3090.6	2899.0	2735.3	2645.7
12.5°	5578.2	5186.5	4428.2	3927.3	3650.3	3369.1	3031.9	2752.0	2469.4	2283.3	2203.6
15°	5484.5	5070.4	4292.5	3766.4	3369.1	3001.1	2623.3	2258.2	1978.3	1802.1	1743.3
17.5°	5714.0	5213.1	4291.1	3552.3	3038.9	2599.5	2115.5	1772.7	1485.9	1354.3	1312.4
20°	6142.1	5487.3	4303.7	3341.1	2680.7	2062.3	1539.0	1257.8	1120.7	1064.7	1043.7
22.5°	6739.5	5905.6	4341.4	3132.6	2288.9	1583.8	1152.9	1010.2	961.2	951.4	947.2
25°	7475.4	6423.3	4468.8	2945.1	1958.8	1208.8	964.0	899.6	871.6	861.9	860.5
27.5°	8152.6	7092.1	4622.7	2784.2	1639.8	1042.3	871.6	817.1	789.1	787.7	790.5
30°	8764.0	7651.7	4751.4	2603.7	1397.7	926.2	811.5	756.9	730.3	728.9	737.3
32.5°	9292.9	8112.0	4846.5	2426.1	1263.4	854.9	756.9	698.2	675.8	671.6	675.8
35°	9858.1	8570.9	4803.1	2287.5	1186.4	796.1	716.3	659.0	632.4	619.8	619.8
37.5°	10503.1	9043.8	4729.0	2172.8	1151.5	747.1	681.4	625.4	598.8	586.2	584.8
40°	11206.9	9516.7	4626.9	2070.7	1116.5	717.7	657.6	598.8	566.6	554.0	551.2
42.5°	11828.1	9921.1	4542.9	2003.5	1059.1	723.3	636.6	579.2	538.7	521.9	520.5
45°	12368.1	10328.2	4527.5	1964.3	1011.6	714.9	631.0	563.8	516.3	498.1	495.3
47.5°	12790.7	10752.2	4615.7	1942.0	959.8	670.2	667.4	554.0	496.7	477.1	474.3
50°	13305.5	11353.8	4817.1	1895.8	912.2	628.2	705.2	552.6	481.3	456.1	449.1
52.5°	13991.1	12137.3	5090.0	1813.2	843.7	589.0	673.0	552.6	463.1	437.9	429.5
55°	15027.8	13136.2	5357.2	1697.1	747.1	537.3	607.2	535.9	436.5	414.1	408.5
57.5°	15714.8	13866.6	5527.9	1536.2	626.8	499.5	523.3	509.3	409.9	386.2	386.2
60°	15749.8	14062.4	5446.7	1333.4	551.2	464.5	454.7	513.5	386.2	361.0	358.2
62.5°	15346.8	13582.6	5024.2	1151.5	510.7	426.7	411.3	450.5	362.4	337.2	333.0
65°	14717.2	12358.3	4291.1	1064.7	488.3	393.1	370.8	369.4	337.2	313.4	307.8
67.5°	13560.2	10799.7	3525.8	1014.4	477.1	355.4	334.4	327.4	307.8	288.2	285.4
70°	11854.7	9045.2	2827.6	993.4	471.5	316.2	299.4	291.0	274.2	258.8	257.4
72.5°	9222.9	7336.9	2333.7	979.4	468.7	279.8	261.6	250.4	240.6	226.7	226.7
75°	6624.8	5397.8	1781.1	882.8	433.7	240.6	221.1	214.1	200.1	188.9	191.7
77.5°	4176.3	3634.9	1172.5	649.2	335.8	193.1	176.3	172.1	160.9	145.5	155.3
80°	2820.6	2556.2	684.2	408.5	211.3	141.3	135.7	134.3	121.7	104.9	106.3
82.5°	1919.6	1883.2	355.4	232.3	121.7	82.5	79.7	82.5	68.6	56.0	56.0
85°	749.9	1024.1	167.9	90.9	39.2	12.6	18.2	19.6	11.2	5.6	7.0
87.5°	14.0	104.9	4.2	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°	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5
2.5°	5683.2	5670.6	5691.6	5602.0	5620.2	5653.8	5670.6	5680.4	5818.9	5786.7	5874.9
5°	4433.8	4421.2	4502.3	4513.5	4555.5	4547.1	4587.7	4597.5	4647.8	4666.0	4789.2
7.5°	3224.9	3279.5	3371.9	3419.4	3490.8	3513.2	3492.2	3543.9	3439.0	3514.6	3536.9
10°	2591.2	2525.4	2486.2	2595.3	2609.3	2712.9	2670.9	2637.3	2698.9	2701.7	2760.4
12.5°	2157.4	2016.1	1922.4	1953.2	1986.7	2031.5	2038.5	2105.7	2150.4	2192.4	2227.4
15°	1691.5	1642.6	1557.2	1515.2	1562.8	1581.0	1624.4	1680.3	1727.9	1740.5	1788.1
17.5°	1298.4	1306.8	1292.8	1267.6	1297.0	1311.0	1313.8	1315.2	1327.8	1319.4	1389.3
20°	1045.1	1074.5	1109.5	1115.1	1124.9	1131.9	1119.3	1071.7	1073.1	1102.5	1124.9
22.5°	945.8	951.4	990.6	1003.2	1033.9	1021.3	985.0	962.6	959.8	966.8	978.0
25°	867.4	875.8	903.8	923.4	947.2	924.8	898.2	877.2	874.4	881.4	892.6
27.5°	797.5	810.1	835.3	854.9	877.2	856.3	831.1	812.9	811.5	810.1	817.1
30°	741.5	755.5	773.7	796.1	811.5	793.3	769.5	759.7	758.3	755.5	758.3
32.5°	685.6	707.9	726.1	737.3	752.7	738.7	720.5	714.9	705.2	696.8	692.6
35°	622.6	646.4	674.4	688.4	703.8	689.8	677.2	653.4	636.6	635.2	638.0
37.5°	586.2	596.0	618.4	642.2	657.6	650.6	626.8	603.0	598.8	598.8	601.6
40°	554.0	558.2	568.0	598.8	626.8	605.8	576.4	569.4	569.4	568.0	569.4
42.5°	521.9	526.1	526.1	549.8	594.6	561.0	538.7	538.7	538.7	540.1	544.3
45°	492.5	493.9	492.5	509.3	551.2	523.3	507.9	512.1	514.9	517.7	520.5
47.5°	467.3	468.7	467.3	481.3	502.3	491.1	482.7	488.3	493.9	498.1	500.9
50°	444.9	443.5	446.3	454.7	464.5	467.3	461.7	470.1	472.9	478.5	485.5
52.5°	425.3	423.9	426.7	430.9	444.9	444.9	444.9	451.9	457.5	463.1	472.9
55°	402.9	404.3	408.5	414.1	432.3	429.5	430.9	436.5	442.1	450.5	456.1
57.5°	382.0	384.8	390.4	398.7	416.9	415.5	416.9	419.7	426.7	430.9	436.5
60°	358.2	363.8	370.8	376.4	394.5	393.1	400.1	405.7	409.9	409.9	412.7
62.5°	334.4	342.8	349.8	354.0	373.6	375.0	384.8	389.0	391.8	389.0	393.1
65°	310.6	323.2	326.0	331.6	351.2	352.6	363.8	373.6	370.8	368.0	375.0
67.5°	286.8	302.2	300.8	307.8	327.4	330.2	340.0	356.8	351.2	348.4	354.0
70°	260.2	271.4	272.8	277.0	303.6	299.4	314.8	330.2	326.0	327.4	327.4
72.5°	230.9	240.6	240.6	249.0	277.0	270.0	282.6	299.4	299.4	298.0	298.0
75°	195.9	201.5	207.1	219.7	249.0	240.6	249.0	264.4	267.2	264.4	264.4
77.5°	158.1	166.5	169.3	186.1	207.1	205.7	214.1	221.1	226.7	223.9	223.9
80°	111.9	120.3	131.5	149.7	162.3	166.5	170.7	176.3	179.1	179.1	181.9
82.5°	63.0	75.6	85.3	103.5	109.1	130.1	128.7	132.9	128.7	113.3	125.9
85°	14.0	26.6	37.8	47.6	54.6	75.6	79.7	89.5	74.2	68.6	68.6
87.5°	0.0	0.0	0.0	0.0	0.0	11.2	22.4	30.8	26.6	22.4	22.4
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5
2.5°	5949.0	6070.7	6217.6	6470.9	6648.6	6840.2	7033.3	7239.0	7293.6	7349.5
5°	4822.7	5062.0	5192.1	5532.1	5888.9	6342.2	6712.9	7118.7	7288.0	7327.1
7.5°	3653.1	3815.4	4156.8	4500.9	4943.1	5418.7	5986.8	6619.2	6816.5	6899.0
10°	2896.2	3117.2	3416.6	3786.0	4173.5	4685.6	5326.4	6065.1	6345.0	6391.1
12.5°	2465.2	2711.5	3037.5	3427.8	3794.4	4180.5	4826.9	5589.4	5888.9	5988.2
15°	1971.3	2269.4	2645.7	3057.1	3455.8	3878.3	4533.1	5393.6	5739.1	5855.3
17.5°	1548.8	1789.5	2196.6	2642.9	3115.8	3650.3	4471.6	5487.3	5912.6	6020.4
20°	1185.0	1357.1	1699.9	2171.4	2725.5	3425.0	4486.9	5841.3	6350.6	6497.5
22.5°	1024.1	1112.3	1320.8	1769.9	2389.7	3229.1	4549.9	6326.8	6941.0	7185.8
25°	927.6	973.8	1091.3	1385.1	2069.3	3038.9	4694.0	6980.2	7766.5	7928.8
27.5°	845.1	878.6	951.4	1162.7	1778.3	2862.6	4861.9	7704.9	8537.4	8779.4
30°	766.7	811.5	880.0	1032.5	1592.2	2701.7	5073.2	8292.5	9186.6	9411.8
32.5°	706.6	751.3	814.3	941.6	1434.1	2532.4	5199.1	8808.8	9716.8	9908.5
35°	657.6	695.4	761.1	868.8	1313.8	2403.7	5173.9	9218.7	10230.3	10426.2
37.5°	622.6	654.8	720.5	800.3	1222.8	2269.4	5161.3	9760.2	10855.7	11082.3
40°	590.4	624.0	684.2	755.5	1131.9	2111.3	5168.3	10297.4	11521.7	11748.3
42.5°	565.2	603.0	652.0	742.9	1038.1	1983.9	5168.3	10764.7	12100.9	12319.2
45°	544.3	584.8	632.4	741.5	964.0	1887.4	5133.3	11166.3	12562.6	12748.7
47.5°	526.1	570.8	639.4	716.3	945.8	1817.4	5102.6	11488.1	12939.0	13113.8
50°	513.5	566.6	680.0	687.0	951.4	1796.5	5250.9	11893.8	13270.5	13421.7
52.5°	503.7	568.0	678.6	643.6	941.6	1810.4	5560.1	12527.6	13730.9	13742.0
55°	484.1	566.6	643.6	594.6	901.0	1834.2	5957.4	13448.2	14451.4	14459.8
57.5°	464.5	551.2	597.4	552.6	818.5	1834.2	6435.9	14319.9	15320.2	15327.2
60°	444.9	573.6	524.7	516.3	710.7	1800.7	6941.0	14703.2	15593.1	15664.4
62.5°	425.3	577.8	468.7	484.1	632.4	1719.5	7317.3	14279.3	15223.7	15325.8
65°	402.9	465.9	432.3	450.5	591.8	1583.8	7198.4	13502.8	14529.7	14651.5
67.5°	376.4	394.5	393.1	415.5	577.8	1383.7	6571.6	12520.6	13782.6	13775.6
70°	344.2	354.0	358.2	382.0	551.2	1228.4	5476.1	11246.0	12785.1	12941.8
72.5°	310.6	319.0	323.2	344.2	524.7	1140.3	4250.5	9490.2	11073.9	11318.8
75°	274.2	279.8	285.4	303.6	496.7	1010.2	3027.7	7244.6	8481.4	8866.2
77.5°	236.4	236.4	243.4	261.6	418.3	833.9	2031.5	5081.6	5746.1	6139.3
80°	191.7	193.1	190.3	209.9	307.8	570.8	1154.3	3394.2	3823.8	3899.3
82.5°	146.9	142.7	144.1	153.9	229.5	389.0	615.6	2108.5	2149.0	2107.1
85°	92.3	92.3	89.5	100.7	146.9	202.9	335.8	1291.4	1008.8	959.8
87.5°	37.8	30.8	35.0	40.6	70.0	82.5	131.5	265.8	102.1	93.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)