

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: P651297

Luminaire Tested: **GALN-SA3D-840-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651297
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-SA3D-840-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 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: 16741 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

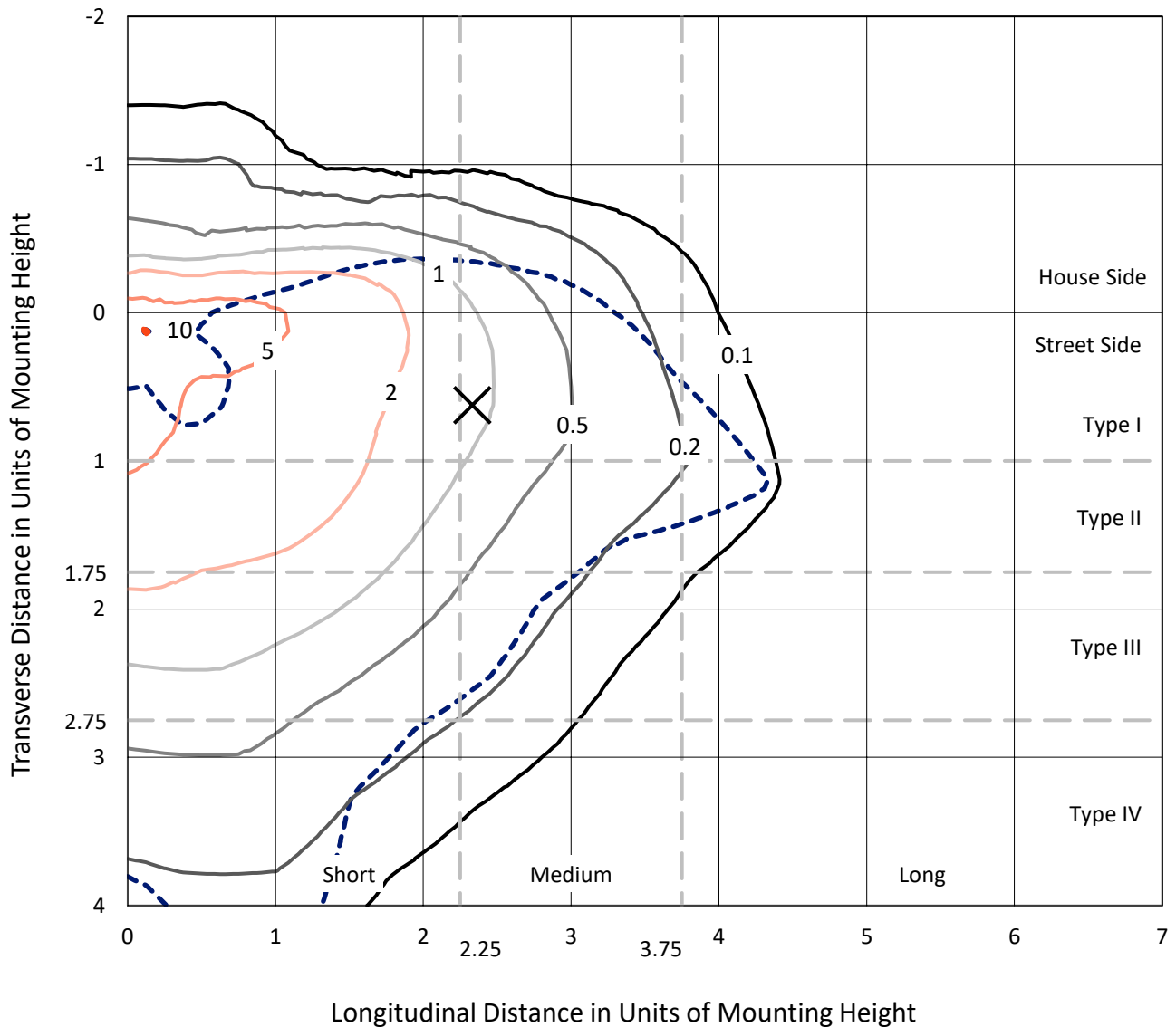
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

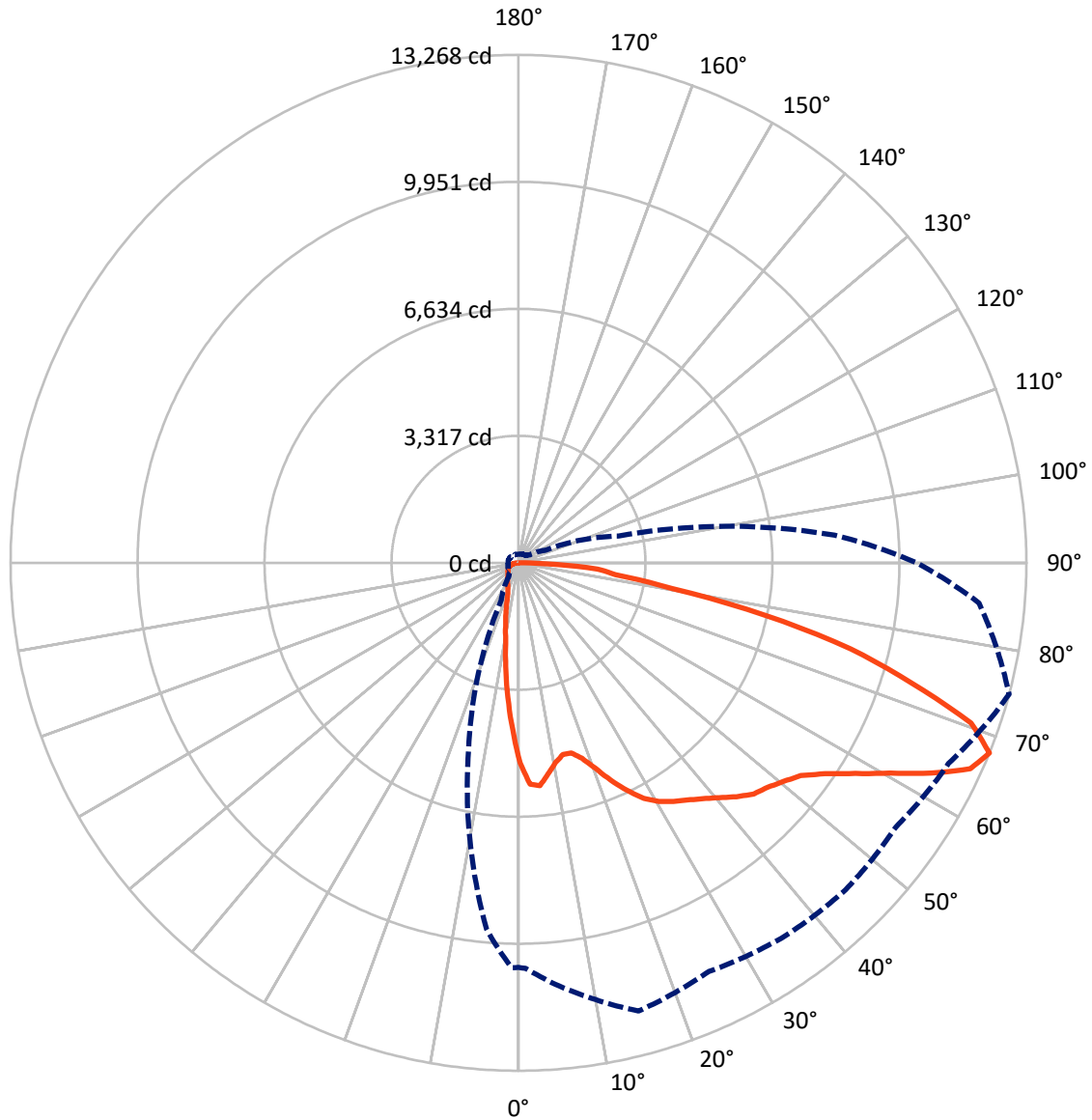
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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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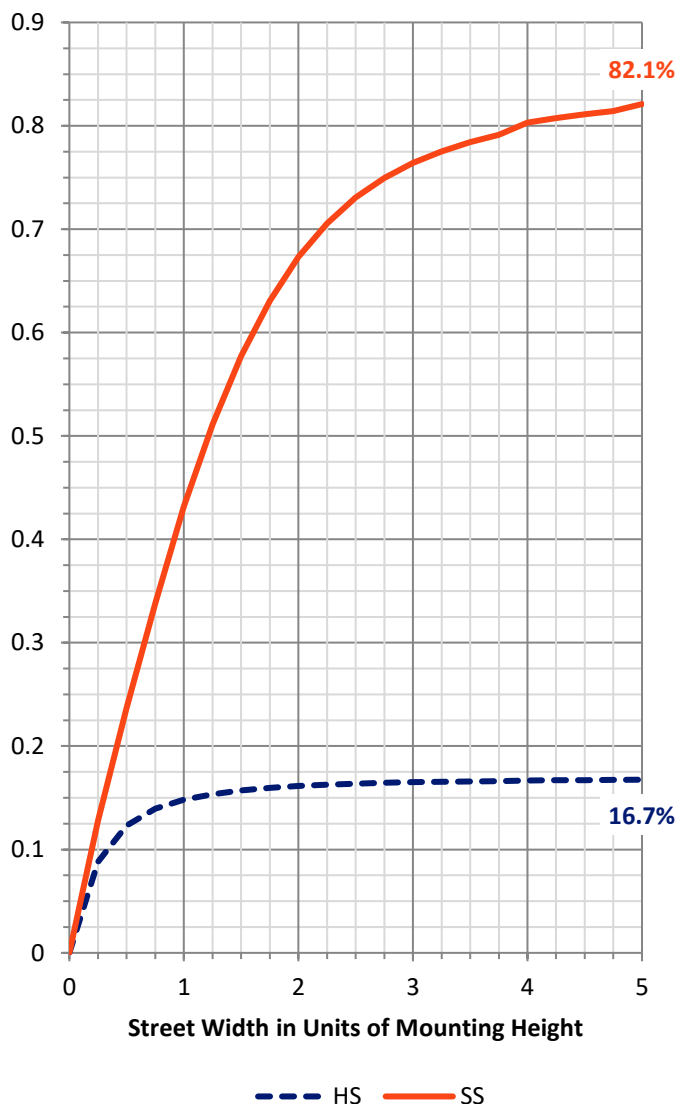
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2829.6	0.0	2829.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	13911.4	0.0	13911.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	16741.0	0.0	16741.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.7	2.4
10°-20°	827.3	4.9
20°-30°	1190.5	7.1
30°-40°	1714.7	10.2
40°-50°	2408.7	14.4
50°-60°	3359.3	20.1
60°-70°	3994.0	23.9
70°-80°	2352.2	14.1
80°-90°	497.4	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°	16741.0	100.0
0°-180°	16741.0	100.0

Coefficient of Utilization

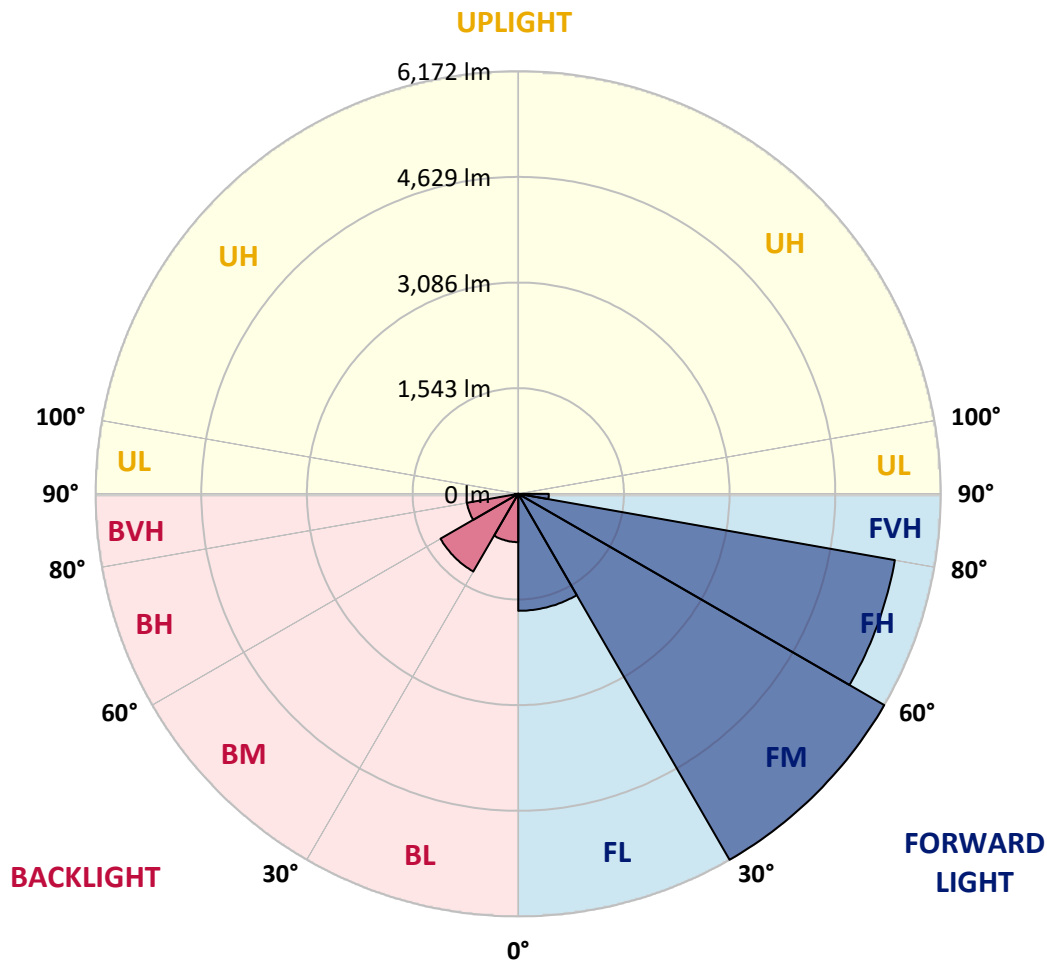


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1708.8	10.2			
FM (30°-60°)	6171.8	36.9			
FH (60°-80°)	5584.8	33.4			G3/7500
FVH (80°-90°)	446.0	2.7			G3/500
BL (0°-30°)	705.8	4.2	B2/1000		
BM (30°-60°)	1311.0	7.8	B2/2500		
BH (60°-80°)	761.4	4.5	B2/1000		G2/1000
BVH (80°-90°)	51.4	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-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5230.3	5230.3	5230.3	5230.3	5230.3	5230.3	5230.3	5230.3	5230.3	5230.3	5230.3
2.5°	5639.3	5646.8	5695.1	5835.8	5932.3	5967.8	5992.5	5946.3	5901.2	5791.7	5626.4
5°	5622.1	5666.2	5791.7	6107.3	6356.4	6463.8	6496.0	6357.5	6128.8	5847.6	5509.4
7.5°	5293.6	5352.6	5545.9	6075.1	6514.2	6765.4	6732.1	6482.0	6069.7	5568.4	5096.0
10°	4903.9	4969.4	5202.3	5842.2	6407.9	6753.7	6753.7	6448.7	5901.2	5305.4	4761.2
12.5°	4594.7	4663.4	4929.7	5602.8	6186.8	6514.2	6569.0	6307.0	5779.9	5139.0	4541.1
15°	4492.8	4559.3	4845.9	5457.8	5952.8	6152.4	6170.7	6084.8	5720.9	5150.8	4531.4
17.5°	4619.4	4705.3	4995.2	5500.8	5738.1	5749.8	5763.8	5831.4	5727.3	5366.6	4726.8
20°	4985.5	5077.8	5380.5	5639.3	5550.2	5427.8	5435.3	5609.2	5803.6	5723.0	5193.8
22.5°	5513.7	5594.2	5904.4	5883.0	5470.7	5218.5	5165.8	5408.5	5916.3	6167.5	5690.8
25°	6083.7	6178.2	6534.7	6244.8	5493.2	5093.9	5060.6	5290.4	6033.2	6582.9	6265.2
27.5°	6736.4	6828.8	7110.1	6609.8	5611.4	5084.3	5044.6	5279.6	6138.5	6967.3	6813.7
30°	7221.7	7306.5	7497.6	6916.8	5756.3	5148.7	5099.3	5364.5	6228.6	7230.2	7348.3
32.5°	7602.8	7690.8	7795.0	7107.9	5947.4	5265.7	5174.4	5519.1	6346.8	7431.0	7744.5
35°	8000.0	8104.1	8096.6	7277.5	6125.6	5401.0	5311.8	5742.3	6532.5	7606.0	8246.9
37.5°	8503.5	8545.3	8491.7	7430.0	6339.2	5644.6	5595.3	6074.0	6796.5	7817.5	8834.1
40°	9014.5	9098.2	8822.3	7614.6	6599.0	6103.1	6097.7	6564.7	7110.1	8065.4	9403.1
42.5°	9452.5	9523.3	9131.5	7775.6	6913.6	6662.4	6703.2	7222.8	7521.2	8353.1	9860.4
45°	9782.1	9845.4	9417.1	7931.3	7328.0	7308.6	7549.1	7928.0	8039.7	8611.9	10128.8
47.5°	10062.2	10123.5	9615.7	8167.5	7840.1	8080.5	8499.1	8663.5	8483.1	8760.0	10429.4
50°	10298.5	10316.7	9752.0	8448.8	8475.6	9026.3	9432.1	9538.4	8921.1	8972.6	10690.3
52.5°	10544.3	10520.7	9987.1	8803.0	9162.6	9923.8	10219.0	10329.6	9340.8	9234.5	11070.3
55°	11095.0	11117.5	10514.2	9249.6	9857.2	10805.2	11193.8	11087.5	9805.6	9716.6	11553.4
57.5°	11760.6	11741.3	11256.0	9948.4	10564.6	11625.3	11915.2	11744.5	10426.2	10378.9	12043.0
60°	12019.3	12045.1	11876.5	10700.0	11262.5	12343.5	12639.8	12374.6	11170.2	11148.6	12412.2
62.5°	11759.5	11904.4	12018.2	11368.7	11857.2	12871.7	13165.9	12863.1	11946.3	12102.0	12670.9
65°	11242.1	11273.2	11660.7	11935.6	12143.9	12958.6	13112.2	12951.1	12594.7	12970.5	12659.2
67.5°	10570.0	10596.9	11051.0	12121.3	11774.5	11971.0	12078.4	12031.1	12394.0	13267.9	12076.2
70°	9930.2	9908.7	10388.6	11647.8	10250.1	9951.7	10040.8	9892.6	10694.6	12541.1	10932.9
72.5°	8684.9	8762.2	9277.5	10331.7	8115.9	7630.7	7825.0	7441.8	8225.4	10740.7	8873.8
75°	6803.0	6821.3	7681.2	8671.0	6122.4	5356.9	5620.0	5460.0	6300.6	8959.8	6127.8
77.5°	4710.7	4669.9	5594.2	6622.6	4366.1	3921.7	3926.0	3849.7	4399.4	6596.9	4163.2
80°	2991.9	2929.7	3501.8	4091.2	3000.5	3209.8	3104.6	3101.4	2864.2	4069.8	2517.4
82.5°	1616.7	1685.4	2212.6	2564.7	2152.5	2481.0	2273.7	2207.2	1965.7	2547.5	1610.3
85°	736.5	800.9	1179.8	1744.5	1635.0	1653.2	1104.7	1303.3	1626.4	2068.7	859.9
87.5°	71.9	92.3	243.7	823.4	558.3	440.2	164.2	316.7	409.0	735.4	68.7
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°	5230.3	5230.3	5230.3	5230.3	5230.3	5230.3	5230.3	5230.3	5230.3	5230.3	5230.3
2.5°	5558.8	5502.9	5312.9	5156.2	4989.8	4863.1	4697.8	4587.2	4511.0	4396.2	4382.2
5°	5303.3	5166.9	4836.3	4499.2	4208.3	3989.3	3767.0	3563.1	3442.8	3405.3	3356.9
7.5°	4872.8	4643.1	4218.0	3831.4	3497.6	3171.2	2920.0	2741.8	2622.7	2552.9	2469.1
10°	4518.5	4252.3	3734.8	3261.4	2986.6	2783.7	2562.5	2371.5	2224.4	2098.8	2030.1
12.5°	4280.2	3979.6	3397.7	3013.4	2800.9	2585.1	2326.4	2111.7	1894.8	1752.0	1690.8
15°	4208.3	3890.5	3293.6	2889.9	2585.1	2302.7	2012.8	1732.7	1518.0	1382.7	1337.6
17.5°	4384.3	4000.0	3292.5	2725.7	2331.8	1994.6	1623.2	1360.1	1140.1	1039.2	1007.0
20°	4712.8	4210.4	3302.2	2563.6	2056.9	1582.4	1180.8	965.1	859.9	816.9	800.9
22.5°	5171.2	4531.4	3331.2	2403.7	1756.3	1215.2	884.6	775.1	737.6	730.0	726.8
25°	5735.9	4928.6	3428.8	2259.8	1503.0	927.5	739.7	690.3	668.8	661.3	660.2
27.5°	6255.5	5441.8	3547.0	2136.3	1258.2	799.8	668.8	627.0	605.4	604.4	606.5
30°	6724.6	5871.2	3645.7	1997.9	1072.4	710.6	622.7	580.8	560.4	559.3	565.7
32.5°	7130.4	6224.3	3718.7	1861.6	969.4	655.9	580.8	535.7	518.5	515.3	518.5
35°	7564.1	6576.5	3685.4	1755.3	910.4	610.8	549.7	505.6	485.3	475.6	475.6
37.5°	8059.1	6939.3	3628.6	1667.2	883.6	573.3	522.8	479.9	459.4	449.9	448.8
40°	8599.1	7302.2	3550.2	1588.8	856.6	550.7	504.6	459.4	434.8	425.1	422.9
42.5°	9075.7	7612.5	3485.8	1537.3	812.7	555.1	488.5	444.5	413.4	400.4	399.4
45°	9490.1	7924.8	3474.0	1507.2	776.2	548.6	484.2	432.6	396.1	382.2	380.0
47.5°	9814.3	8250.1	3541.6	1490.1	736.5	514.2	512.1	425.1	381.1	366.1	363.9
50°	10209.3	8711.8	3696.2	1454.7	700.0	482.0	541.1	424.0	369.3	349.9	344.6
52.5°	10735.4	9312.9	3905.5	1391.3	647.3	452.0	516.4	424.0	355.3	336.0	329.6
55°	11530.9	10079.5	4110.6	1302.2	573.3	412.3	465.9	411.2	335.0	317.7	313.4
57.5°	12057.9	10639.8	4241.5	1178.7	481.0	383.2	401.5	390.7	314.5	296.3	296.3
60°	12084.8	10790.1	4179.3	1023.1	422.9	356.4	348.9	394.0	296.3	276.9	274.8
62.5°	11775.6	10421.9	3855.1	883.6	391.8	327.4	315.6	345.7	278.0	258.7	255.5
65°	11292.5	9482.5	3292.5	816.9	374.7	301.7	284.5	283.4	258.7	240.4	236.2
67.5°	10404.7	8286.6	2705.3	778.3	366.1	272.7	256.6	251.2	236.2	221.2	219.0
70°	9096.1	6940.4	2169.6	762.2	361.8	242.6	229.8	223.3	210.4	198.6	197.6
72.5°	7076.8	5629.7	1790.7	751.4	359.6	214.7	200.7	192.2	184.7	173.9	173.9
75°	5083.2	4141.7	1366.6	677.4	332.8	184.7	169.6	164.2	153.5	144.9	147.1
77.5°	3204.5	2789.0	899.6	498.1	257.7	148.2	135.2	132.0	123.5	111.7	119.2
80°	2164.2	1961.4	525.0	313.4	162.1	108.4	104.1	103.0	93.4	80.5	81.6
82.5°	1472.9	1445.0	272.7	178.2	93.4	63.3	61.2	63.3	52.6	43.0	43.0
85°	575.4	785.8	128.8	69.8	30.0	9.7	14.0	15.1	8.6	4.3	5.4
87.5°	10.8	80.5	3.2	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°	5230.3	5230.3	5230.3	5230.3	5230.3	5230.3	5230.3	5230.3	5230.3	5230.3	5230.3
2.5°	4360.7	4351.1	4367.1	4298.4	4312.4	4338.1	4351.1	4358.6	4464.9	4440.1	4507.8
5°	3402.0	3392.3	3454.7	3463.2	3495.4	3489.0	3520.1	3527.7	3566.3	3580.2	3674.7
7.5°	2474.5	2516.4	2587.3	2623.8	2678.5	2695.7	2679.5	2719.3	2638.7	2696.8	2713.9
10°	1988.2	1937.7	1907.6	1991.4	2002.2	2081.6	2049.3	2023.6	2070.9	2073.0	2118.1
12.5°	1655.4	1546.9	1475.0	1498.7	1524.4	1558.8	1564.2	1615.6	1650.0	1682.3	1709.1
15°	1297.9	1260.3	1194.8	1162.6	1199.1	1213.1	1246.4	1289.3	1325.8	1335.5	1372.0
17.5°	996.2	1002.7	992.0	972.6	995.2	1005.9	1008.0	1009.1	1018.8	1012.3	1066.1
20°	801.9	824.5	851.3	855.6	863.1	868.5	858.8	822.3	823.4	846.0	863.1
22.5°	725.7	730.0	760.1	769.8	793.3	783.6	755.8	738.6	736.5	741.8	750.4
25°	665.6	672.0	693.5	708.5	726.8	709.6	689.2	673.1	670.9	676.3	684.9
27.5°	611.9	621.6	640.9	655.9	673.1	657.0	637.6	623.7	622.7	621.6	627.0
30°	568.9	579.7	593.7	610.8	622.7	608.7	590.5	582.9	581.9	579.7	581.9
32.5°	526.0	543.2	557.2	565.7	577.6	566.8	552.9	548.6	541.1	534.6	531.4
35°	477.7	495.9	517.5	528.1	540.0	529.2	519.6	501.3	488.5	487.4	489.5
37.5°	449.9	457.3	474.5	492.7	504.6	499.2	481.0	462.7	459.4	459.4	461.6
40°	425.1	428.3	435.9	459.4	481.0	464.8	442.3	436.9	436.9	435.9	436.9
42.5°	400.4	403.7	403.7	421.9	456.2	430.5	413.4	413.4	413.4	414.4	417.6
45°	377.9	379.0	377.9	390.7	422.9	401.5	389.7	392.9	395.1	397.2	399.4
47.5°	358.6	359.6	358.6	369.3	385.4	376.9	370.4	374.7	379.0	382.2	384.3
50°	341.4	340.4	342.5	348.9	356.4	358.6	354.2	360.7	362.9	367.2	372.5
52.5°	326.4	325.3	327.4	330.7	341.4	341.4	341.4	346.7	351.0	355.3	362.9
55°	309.2	310.2	313.4	317.7	331.7	329.6	330.7	335.0	339.3	345.7	349.9
57.5°	293.1	295.2	299.5	306.0	319.9	318.8	319.9	322.0	327.4	330.7	335.0
60°	274.8	279.1	284.5	288.8	302.8	301.7	307.0	311.3	314.5	314.5	316.7
62.5°	256.6	263.0	268.4	271.6	286.6	287.7	295.2	298.5	300.6	298.5	301.7
65°	238.3	248.0	250.1	254.4	269.5	270.5	279.1	286.6	284.5	282.3	287.7
67.5°	220.1	231.9	230.8	236.2	251.2	253.4	260.9	273.7	269.5	267.3	271.6
70°	199.7	208.2	209.3	212.5	233.0	229.8	241.5	253.4	250.1	251.2	251.2
72.5°	177.1	184.7	184.7	191.1	212.5	207.2	216.9	229.8	229.8	228.7	228.7
75°	150.3	154.6	158.9	168.5	191.1	184.7	191.1	202.9	205.0	202.9	202.9
77.5°	121.3	127.7	129.9	142.8	158.9	157.8	164.2	169.6	173.9	171.7	171.7
80°	85.9	92.3	100.9	114.9	124.6	127.7	130.9	135.2	137.4	137.4	139.5
82.5°	48.3	57.9	65.5	79.5	83.8	99.8	98.7	102.0	98.7	87.0	96.6
85°	10.8	20.4	29.0	36.5	41.9	57.9	61.2	68.7	56.9	52.6	52.6
87.5°	0.0	0.0	0.0	0.0	0.0	8.6	17.2	23.6	20.4	17.2	17.2
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°	5230.3	5230.3	5230.3	5230.3	5230.3	5230.3	5230.3	5230.3	5230.3	5230.3
2.5°	4564.7	4658.0	4770.8	4965.1	5101.4	5248.5	5396.7	5554.5	5596.4	5639.3
5°	3700.5	3884.1	3983.9	4244.8	4518.5	4866.4	5150.8	5462.1	5592.1	5622.1
7.5°	2803.0	2927.5	3189.5	3453.6	3792.8	4157.8	4593.6	5078.9	5230.3	5293.6
10°	2222.3	2391.8	2621.6	2905.0	3202.4	3595.3	4086.9	4653.8	4868.5	4903.9
12.5°	1891.6	2080.5	2330.7	2630.1	2911.5	3207.7	3703.7	4288.8	4518.5	4594.7
15°	1512.6	1741.3	2030.1	2345.7	2651.7	2975.9	3478.3	4138.5	4403.6	4492.8
17.5°	1188.4	1373.0	1685.4	2027.9	2390.8	2800.9	3431.0	4210.4	4536.8	4619.4
20°	909.3	1041.3	1304.3	1666.1	2091.2	2628.0	3442.8	4482.0	4872.8	4985.5
22.5°	785.8	853.4	1013.4	1358.0	1833.6	2477.8	3491.2	4854.5	5325.8	5513.7
25°	711.7	747.1	837.4	1062.8	1587.7	2331.8	3601.8	5355.9	5959.2	6083.7
27.5°	648.4	674.1	730.0	892.1	1364.4	2196.4	3730.5	5912.0	6550.7	6736.4
30°	588.3	622.7	675.2	792.3	1221.7	2073.0	3892.7	6362.8	7048.8	7221.7
32.5°	542.1	576.5	624.8	722.5	1100.4	1943.1	3989.3	6758.9	7455.7	7602.8
35°	504.6	533.5	584.0	666.7	1008.0	1844.3	3969.9	7073.6	7849.7	8000.0
37.5°	477.7	502.4	552.9	614.1	938.3	1741.3	3960.3	7489.0	8329.6	8503.5
40°	453.0	478.8	525.0	579.7	868.5	1619.9	3965.7	7901.2	8840.6	9014.5
42.5°	433.7	462.7	500.2	570.0	796.6	1522.3	3965.7	8259.8	9285.0	9452.5
45°	417.6	448.8	485.3	568.9	739.7	1448.2	3938.8	8567.9	9639.3	9782.1
47.5°	403.7	438.0	490.6	549.7	725.7	1394.5	3915.2	8814.8	9928.1	10062.2
50°	394.0	434.8	521.8	527.1	730.0	1378.4	4029.0	9126.1	10182.5	10298.5
52.5°	386.4	435.9	520.7	493.8	722.5	1389.2	4266.2	9612.5	10535.7	10544.3
55°	371.5	434.8	493.8	456.2	691.4	1407.4	4571.1	10318.8	11088.6	11095.0
57.5°	356.4	422.9	458.4	424.0	628.1	1407.4	4938.3	10987.7	11755.2	11760.6
60°	341.4	440.2	402.6	396.1	545.4	1381.7	5325.8	11281.8	11964.6	12019.3
62.5°	326.4	443.4	359.6	371.5	485.3	1319.4	5614.6	10956.5	11681.2	11759.5
65°	309.2	357.5	331.7	345.7	454.1	1215.2	5523.4	10360.7	11148.6	11242.1
67.5°	288.8	302.8	301.7	318.8	443.4	1061.8	5042.4	9607.1	10575.4	10570.0
70°	264.1	271.6	274.8	293.1	422.9	942.6	4201.8	8629.1	9810.0	9930.2
72.5°	238.3	244.7	248.0	264.1	402.6	874.9	3261.4	7281.8	8497.0	8684.9
75°	210.4	214.7	219.0	233.0	381.1	775.1	2323.1	5558.8	6507.7	6803.0
77.5°	181.4	181.4	186.8	200.7	321.0	639.8	1558.8	3899.0	4409.0	4710.7
80°	147.1	148.2	146.0	161.1	236.2	438.0	885.7	2604.4	2934.0	2991.9
82.5°	112.7	109.5	110.6	118.1	176.0	298.5	472.4	1617.8	1648.9	1616.7
85°	70.8	70.8	68.7	77.3	112.7	155.7	257.7	990.9	774.1	736.5
87.5°	29.0	23.6	26.8	31.1	53.7	63.3	100.9	203.9	78.4	71.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)