

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: P453335

Luminaire Tested: **GALN-SA4B-760-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453335
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-SA4B-760-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 800mA 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: 19403 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

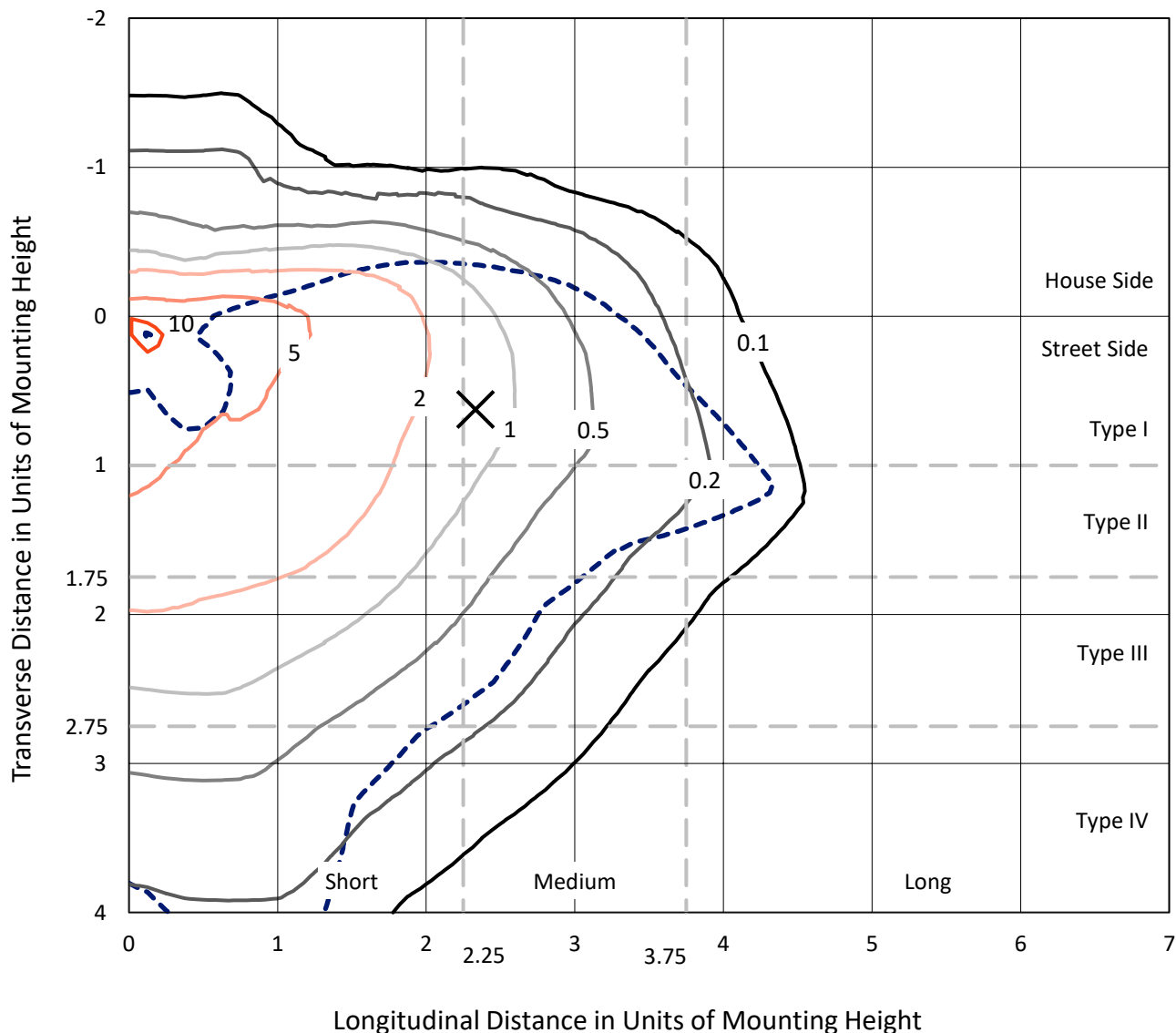
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

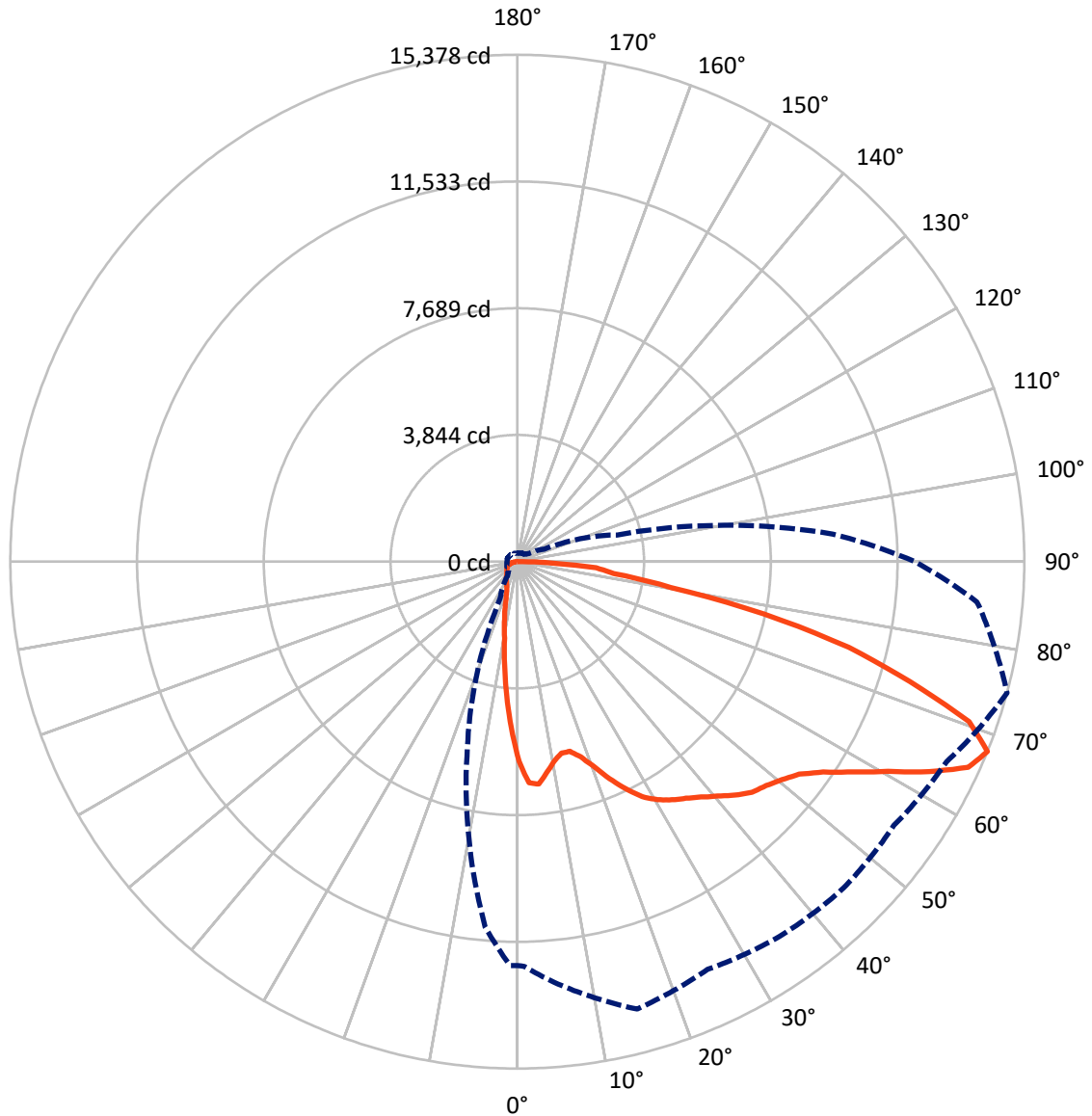
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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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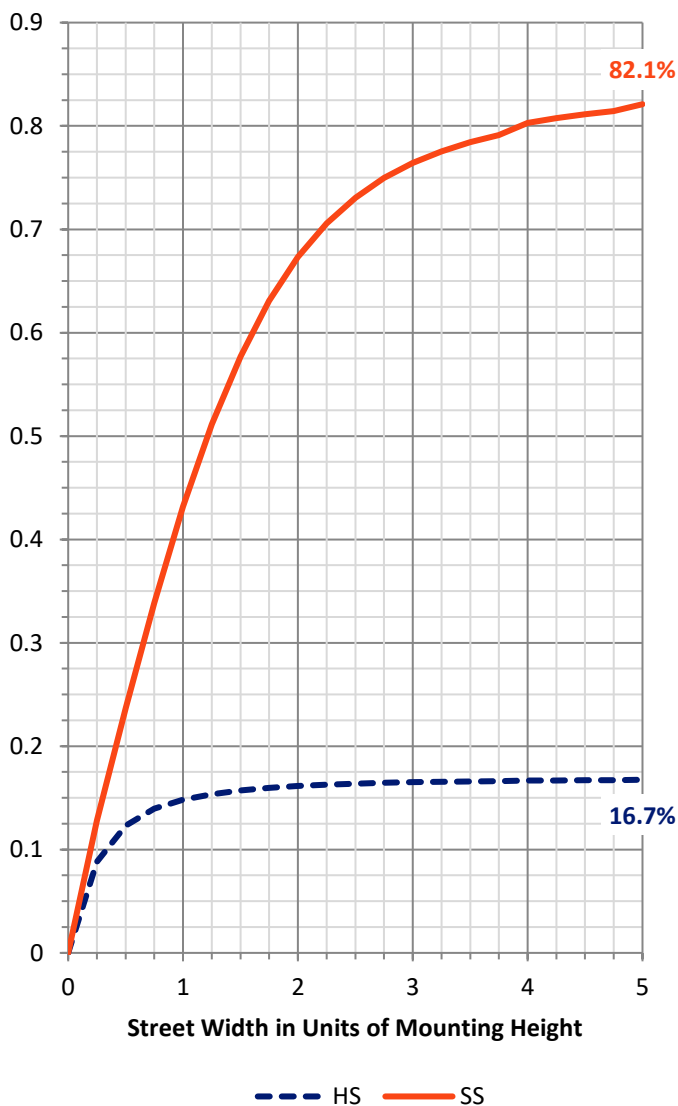
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3279.5	0.0	3279.5
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	16123.5	0.0	16123.5
	% Fixture	83.1	0.0	83.1
Total	Lumens	19403.0	0.0	19403.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.8	2.4
10°-20°	958.9	4.9
20°-30°	1379.9	7.1
30°-40°	1987.4	10.2
40°-50°	2791.7	14.4
50°-60°	3893.5	20.1
60°-70°	4629.1	23.9
70°-80°	2726.3	14.1
80°-90°	576.5	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°	19403.0	100.0
0°-180°	19403.0	100.0

Coefficient of Utilization

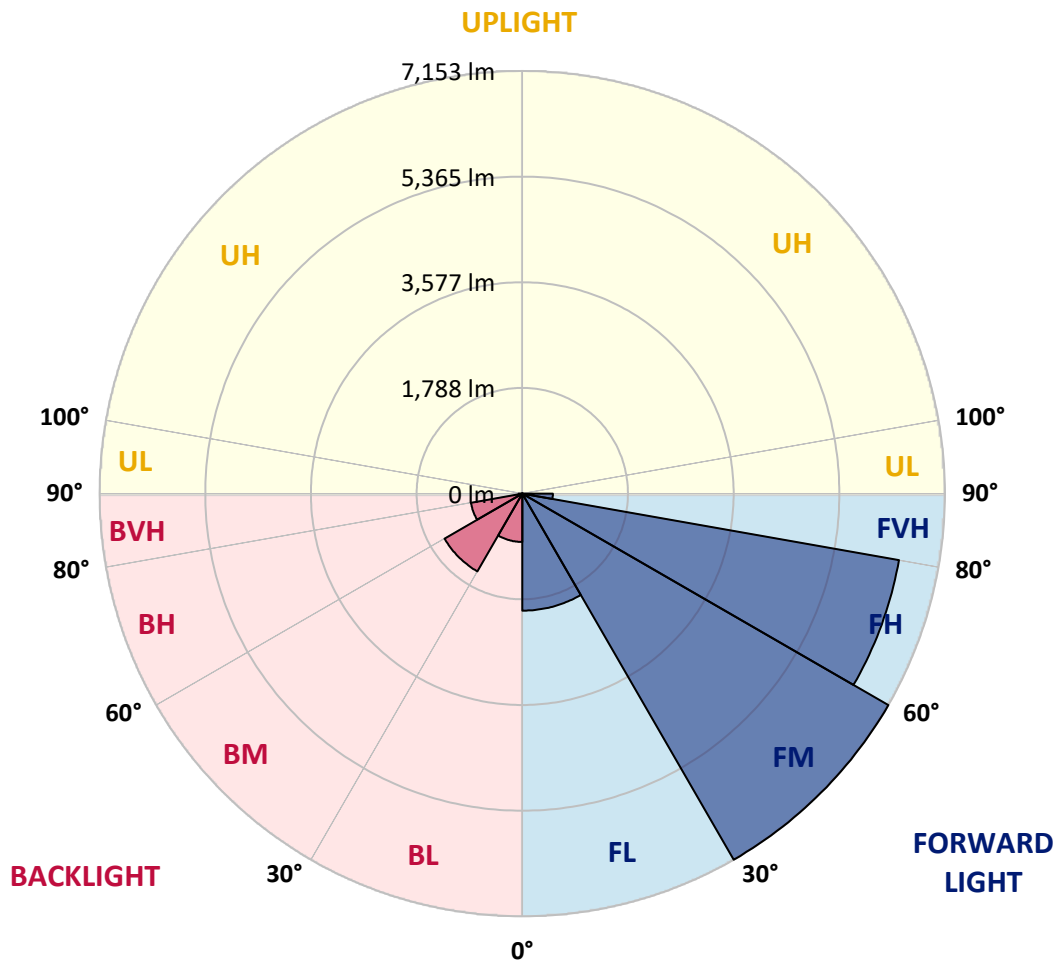


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1980.5	10.2			
FM (30°-60°)	7153.2	36.9			
FH (60°-80°)	6472.9	33.4			G3/7500
FVH (80°-90°)	516.9	2.7			G4/750
BL (0°-30°)	818.0	4.2	B2/1000		
BM (30°-60°)	1519.4	7.8	B2/2500		
BH (60°-80°)	882.5	4.5	B2/1000		G2/1000
BVH (80°-90°)	59.6	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°	6062.0	6062.0	6062.0	6062.0	6062.0	6062.0	6062.0	6062.0	6062.0	6062.0	6062.0
2.5°	6536.0	6544.7	6600.7	6763.7	6875.7	6916.8	6945.4	6891.9	6839.6	6712.7	6521.1
5°	6516.1	6567.1	6712.7	7078.5	7367.2	7491.6	7528.9	7368.4	7103.4	6777.4	6385.5
7.5°	6135.4	6203.8	6427.8	7041.2	7550.1	7841.2	7802.7	7512.7	7035.0	6453.9	5906.4
10°	5683.7	5759.6	6029.6	6771.2	7426.9	7827.5	7827.5	7474.2	6839.6	6149.1	5518.2
12.5°	5325.4	5405.0	5713.6	6493.7	7170.6	7550.1	7613.5	7309.9	6699.0	5956.2	5263.2
15°	5207.2	5284.3	5616.5	6325.7	6899.3	7130.8	7151.9	7052.4	6630.6	5969.9	5252.0
17.5°	5354.0	5453.5	5789.5	6375.5	6650.5	6664.2	6680.3	6758.7	6638.0	6220.0	5478.4
20°	5778.3	5885.3	6236.2	6536.0	6432.7	6290.9	6299.6	6501.2	6726.4	6633.1	6019.7
22.5°	6390.4	6483.8	6843.3	6818.5	6340.7	6048.3	5987.3	6268.5	6857.0	7148.2	6595.7
25°	7051.1	7160.6	7573.7	7237.8	6366.8	5903.9	5865.4	6131.6	6992.7	7629.7	7261.4
27.5°	7807.6	7914.6	8240.6	7660.8	6503.7	5892.7	5846.7	6119.2	7114.6	8075.1	7897.2
30°	8370.0	8468.3	8689.8	8016.7	6671.6	5967.4	5910.2	6217.5	7219.1	8380.0	8516.8
32.5°	8811.7	8913.8	9034.5	8238.1	6893.1	6103.0	5997.3	6396.7	7356.0	8612.7	8976.0
35°	9272.1	9392.8	9384.1	8434.7	7099.7	6259.8	6156.5	6655.5	7571.2	8815.5	9558.3
37.5°	9855.7	9904.2	9842.0	8611.4	7347.3	6542.2	6485.0	7039.9	7877.3	9060.6	10238.9
40°	10447.9	10545.0	10225.2	8825.4	7648.4	7073.5	7067.3	7608.6	8240.6	9348.0	10898.3
42.5°	10955.6	11037.7	10583.5	9012.1	8012.9	7721.8	7769.1	8371.3	8717.2	9681.5	11428.4
45°	11337.6	11411.0	10914.5	9192.5	8493.2	8470.8	8749.5	9188.7	9318.1	9981.3	11739.4
47.5°	11662.3	11733.2	11144.7	9466.2	9086.7	9365.4	9850.7	10041.0	9832.0	10153.0	12087.8
50°	11936.0	11957.2	11302.7	9792.2	9823.3	10461.6	10931.9	11055.1	10339.7	10399.4	12390.2
52.5°	12221.0	12193.6	11575.2	10202.8	10619.6	11501.8	11844.0	11972.1	10826.2	10703.0	12830.6
55°	12859.3	12885.4	12186.1	10720.4	11424.6	12523.3	12973.7	12850.6	11364.9	11261.7	13390.6
57.5°	13630.7	13608.3	13045.9	11530.4	12244.6	13473.9	13809.9	13612.0	12084.1	12029.4	13957.9
60°	13930.6	13960.4	13765.1	12401.4	13053.4	14306.3	14649.7	14342.4	12946.4	12921.5	14385.9
62.5°	13629.4	13797.4	13929.3	13176.5	13742.7	14918.5	15259.4	14908.5	13845.9	14026.4	14685.8
65°	13029.7	13065.8	13515.0	13833.5	14074.9	15019.3	15197.2	15010.6	14597.5	15033.0	14672.1
67.5°	12250.8	12281.9	12808.2	14048.8	13646.9	13874.6	13999.0	13944.2	14364.8	15377.6	13996.5
70°	11509.3	11484.4	12040.5	13500.0	11880.0	11534.1	11637.4	11465.7	12395.2	14535.3	12671.4
72.5°	10065.9	10155.5	10752.8	11974.6	9406.5	8844.1	9069.3	8625.1	9533.4	12448.7	10284.9
75°	7884.8	7905.9	8902.6	10049.8	7095.9	6208.8	6513.6	6328.2	7302.5	10384.5	7102.1
77.5°	5459.7	5412.5	6483.8	7675.7	5060.3	4545.2	4550.2	4461.9	5098.9	7645.9	4825.2
80°	3467.7	3395.5	4058.7	4741.8	3477.7	3720.3	3598.4	3594.6	3319.6	4716.9	2917.8
82.5°	1873.8	1953.5	2564.4	2972.5	2494.7	2875.4	2635.3	2558.2	2278.2	2952.6	1866.4
85°	853.6	928.2	1367.4	2021.9	1895.0	1916.1	1280.3	1510.5	1885.0	2397.7	996.6
87.5°	83.4	107.0	282.4	954.3	647.0	510.1	190.4	367.1	474.1	852.3	79.6
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°	6062.0	6062.0	6062.0	6062.0	6062.0	6062.0	6062.0	6062.0	6062.0	6062.0	6062.0
2.5°	6442.7	6378.0	6157.8	5976.1	5783.2	5636.4	5444.8	5316.7	5228.3	5095.2	5079.0
5°	6146.6	5988.5	5605.3	5214.6	4877.4	4623.6	4366.1	4129.6	3990.3	3946.7	3890.8
7.5°	5647.6	5381.4	4888.6	4440.7	4053.7	3675.5	3384.3	3177.8	3039.7	2958.8	2861.8
10°	5237.0	4928.5	4328.7	3780.0	3461.5	3226.3	2970.0	2748.5	2578.1	2432.5	2352.9
12.5°	4960.8	4612.4	3938.0	3492.6	3246.2	2996.1	2696.3	2447.4	2196.1	2030.6	1959.7
15°	4877.4	4509.1	3817.3	3349.5	2996.1	2668.9	2333.0	2008.2	1759.4	1602.6	1550.3
17.5°	5081.5	4636.1	3816.1	3159.1	2702.5	2311.8	1881.3	1576.5	1321.4	1204.4	1167.1
20°	5462.2	4879.9	3827.3	2971.3	2384.0	1834.0	1368.7	1118.6	996.6	946.9	928.2
22.5°	5993.5	5252.0	3860.9	2785.9	2035.6	1408.5	1025.3	898.3	854.8	846.1	842.4
25°	6648.0	5712.3	3974.1	2619.1	1741.9	1075.0	857.3	800.0	775.2	766.5	765.2
27.5°	7250.2	6307.1	4111.0	2476.0	1458.3	927.0	775.2	726.6	701.8	700.5	703.0
30°	7793.9	6804.8	4225.5	2315.5	1243.0	823.7	721.7	673.1	649.5	648.3	655.7
32.5°	8264.3	7214.1	4310.1	2157.5	1123.6	760.2	673.1	620.9	601.0	597.2	601.0
35°	8766.9	7622.2	4271.5	2034.3	1055.1	708.0	637.1	586.0	562.4	551.2	551.2
37.5°	9340.5	8042.8	4205.5	1932.3	1024.0	664.4	605.9	556.2	532.5	521.3	520.1
40°	9966.4	8463.3	4114.7	1841.5	992.9	638.3	584.8	532.5	503.9	492.7	490.2
42.5°	10518.8	8822.9	4040.1	1781.8	941.9	643.3	566.1	515.1	479.0	464.1	462.9
45°	10999.1	9185.0	4026.4	1746.9	899.6	635.8	561.2	501.4	459.1	443.0	440.5
47.5°	11374.9	9562.0	4104.8	1727.0	853.6	596.0	593.5	492.7	441.7	424.3	421.8
50°	11832.8	10097.0	4283.9	1686.0	811.2	558.7	627.1	491.5	428.0	405.6	399.4
52.5°	12442.4	10793.8	4526.6	1612.5	750.3	523.8	598.5	491.5	411.8	389.4	382.0
55°	13364.4	11682.2	4764.2	1509.3	664.4	477.8	540.0	476.5	388.2	368.3	363.3
57.5°	13975.3	12331.7	4916.0	1366.2	557.4	444.2	465.3	452.9	364.6	343.4	343.4
60°	14006.5	12505.9	4843.8	1185.8	490.2	413.1	404.4	456.6	343.4	321.0	318.5
62.5°	13648.1	12079.1	4468.1	1024.0	454.1	379.5	365.8	400.6	322.3	299.9	296.1
65°	13088.2	10990.4	3816.1	946.9	434.2	349.6	329.7	328.5	299.9	278.7	273.7
67.5°	12059.2	9604.3	3135.5	902.1	424.3	316.0	297.4	291.2	273.7	256.3	253.8
70°	10542.5	8044.0	2514.6	883.4	419.3	281.2	266.3	258.8	243.9	230.2	228.9
72.5°	8202.1	6524.8	2075.4	871.0	416.8	248.8	232.7	222.7	214.0	201.6	201.6
75°	5891.5	4800.3	1583.9	785.1	385.7	214.0	196.6	190.4	177.9	168.0	170.5
77.5°	3714.1	3232.5	1042.7	577.3	298.6	171.7	156.8	153.0	143.1	129.4	138.1
80°	2508.4	2273.2	608.4	363.3	187.9	125.7	120.7	119.4	108.2	93.3	94.6
82.5°	1707.1	1674.8	316.0	206.5	108.2	73.4	70.9	73.4	61.0	49.8	49.8
85°	666.9	910.8	149.3	80.9	34.8	11.2	16.2	17.4	10.0	5.0	6.2
87.5°	12.4	93.3	3.7	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°	6062.0	6062.0	6062.0	6062.0	6062.0	6062.0	6062.0	6062.0	6062.0	6062.0	6062.0
2.5°	5054.1	5042.9	5061.6	4982.0	4998.1	5028.0	5042.9	5051.6	5174.8	5146.2	5224.6
5°	3943.0	3931.8	4004.0	4013.9	4051.3	4043.8	4079.9	4088.6	4133.4	4149.6	4259.0
7.5°	2868.0	2916.5	2998.6	3040.9	3104.4	3124.3	3105.6	3151.7	3058.4	3125.5	3145.4
10°	2304.3	2245.9	2211.0	2308.1	2320.5	2412.6	2375.3	2345.4	2400.1	2402.6	2454.9
12.5°	1918.6	1793.0	1709.6	1737.0	1766.8	1806.6	1812.9	1872.6	1912.4	1949.7	1980.8
15°	1504.3	1460.7	1384.8	1347.5	1389.8	1406.0	1444.6	1494.3	1536.6	1547.8	1590.1
17.5°	1154.7	1162.1	1149.7	1127.3	1153.4	1165.9	1168.3	1169.6	1180.8	1173.3	1235.5
20°	929.5	955.6	986.7	991.7	1000.4	1006.6	995.4	953.1	954.3	980.5	1000.4
22.5°	841.1	846.1	880.9	892.1	919.5	908.3	875.9	856.0	853.6	859.8	869.7
25°	771.4	778.9	803.8	821.2	842.4	822.4	798.8	780.1	777.7	783.9	793.8
27.5°	709.2	720.4	742.8	760.2	780.1	761.5	739.1	722.9	721.7	720.4	726.6
30°	659.4	671.9	688.1	708.0	721.7	705.5	684.3	675.6	674.4	671.9	674.4
32.5°	609.7	629.6	645.8	655.7	669.4	657.0	640.8	635.8	627.1	619.6	615.9
35°	553.7	574.8	599.7	612.2	625.9	613.4	602.2	581.1	566.1	564.9	567.4
37.5°	521.3	530.0	550.0	571.1	584.8	578.6	557.4	536.3	532.5	532.5	535.0
40°	492.7	496.5	505.2	532.5	557.4	538.8	512.6	506.4	506.4	505.2	506.4
42.5°	464.1	467.8	467.8	489.0	528.8	498.9	479.0	479.0	479.0	480.3	484.0
45°	438.0	439.2	438.0	452.9	490.2	465.3	451.7	455.4	457.9	460.4	462.9
47.5°	415.6	416.8	415.6	428.0	446.7	436.7	429.3	434.2	439.2	443.0	445.4
50°	395.7	394.4	396.9	404.4	413.1	415.6	410.6	418.1	420.6	425.5	431.8
52.5°	378.3	377.0	379.5	383.2	395.7	395.7	395.7	401.9	406.9	411.8	420.6
55°	358.3	359.6	363.3	368.3	384.5	382.0	383.2	388.2	393.2	400.6	405.6
57.5°	339.7	342.2	347.1	354.6	370.8	369.5	370.8	373.3	379.5	383.2	388.2
60°	318.5	323.5	329.7	334.7	350.9	349.6	355.9	360.8	364.6	364.6	367.1
62.5°	297.4	304.8	311.1	314.8	332.2	333.5	342.2	345.9	348.4	345.9	349.6
65°	276.2	287.4	289.9	294.9	312.3	313.5	323.5	332.2	329.7	327.2	333.5
67.5°	255.1	268.8	267.5	273.7	291.2	293.6	302.4	317.3	312.3	309.8	314.8
70°	231.4	241.4	242.6	246.4	270.0	266.3	280.0	293.6	289.9	291.2	291.2
72.5°	205.3	214.0	214.0	221.5	246.4	240.1	251.3	266.3	266.3	265.0	265.0
75°	174.2	179.2	184.1	195.3	221.5	214.0	221.5	235.2	237.7	235.2	235.2
77.5°	140.6	148.1	150.6	165.5	184.1	182.9	190.4	196.6	201.6	199.1	199.1
80°	99.5	107.0	117.0	133.1	144.3	148.1	151.8	156.8	159.3	159.3	161.8
82.5°	56.0	67.2	75.9	92.1	97.1	115.7	114.5	118.2	114.5	100.8	112.0
85°	12.4	23.6	33.6	42.3	48.5	67.2	70.9	79.6	65.9	61.0	61.0
87.5°	0.0	0.0	0.0	0.0	0.0	10.0	19.9	27.4	23.6	19.9	19.9
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°	6062.0	6062.0	6062.0	6062.0	6062.0	6062.0	6062.0	6062.0	6062.0	6062.0
2.5°	5290.5	5398.8	5529.4	5754.6	5912.6	6083.1	6254.8	6437.7	6486.2	6536.0
5°	4288.9	4501.7	4617.4	4919.7	5237.0	5640.2	5969.9	6330.7	6481.3	6516.1
7.5°	3248.7	3393.1	3696.6	4002.7	4395.9	4819.0	5324.1	5886.5	6062.0	6135.4
10°	2575.6	2772.2	3038.4	3366.9	3711.6	4167.0	4736.8	5393.8	5642.6	5683.7
12.5°	2192.4	2411.3	2701.3	3048.4	3374.4	3717.8	4292.6	4970.8	5237.0	5325.4
15°	1753.1	2018.2	2352.9	2718.7	3073.3	3449.0	4031.4	4796.6	5103.9	5207.2
17.5°	1377.4	1591.4	1953.5	2350.4	2770.9	3246.2	3976.6	4879.9	5258.2	5354.0
20°	1053.9	1206.9	1511.8	1931.1	2423.8	3045.9	3990.3	5194.7	5647.6	5778.3
22.5°	910.8	989.2	1174.6	1574.0	2125.2	2871.7	4046.3	5626.5	6172.7	6390.4
25°	824.9	866.0	970.5	1231.8	1840.2	2702.5	4174.4	6207.5	6906.8	7051.1
27.5°	751.5	781.4	846.1	1034.0	1581.4	2545.7	4323.7	6852.1	7592.4	7807.6
30°	681.8	721.7	782.6	918.3	1415.9	2402.6	4511.6	7374.6	8169.7	8370.0
32.5°	628.3	668.2	724.1	837.4	1275.4	2252.1	4623.6	7833.8	8641.3	8811.7
35°	584.8	618.4	676.9	772.7	1168.3	2137.6	4601.2	8198.3	9097.9	9272.1
37.5°	553.7	582.3	640.8	711.7	1087.5	2018.2	4590.0	8679.8	9654.1	9855.7
40°	525.1	554.9	608.4	671.9	1006.6	1877.6	4596.2	9157.6	10246.3	10447.9
42.5°	502.7	536.3	579.8	660.7	923.2	1764.3	4596.2	9573.2	10761.5	10955.6
45°	484.0	520.1	562.4	659.4	857.3	1678.5	4565.1	9930.3	11172.1	11337.6
47.5°	467.8	507.7	568.6	637.1	841.1	1616.3	4537.8	10216.5	11506.8	11662.3
50°	456.6	503.9	604.7	610.9	846.1	1597.6	4669.6	10577.3	11801.7	11936.0
52.5°	447.9	505.2	603.5	572.4	837.4	1610.1	4944.6	11141.0	12211.0	12221.0
55°	430.5	503.9	572.4	528.8	801.3	1631.2	5298.0	11959.7	12851.8	12859.3
57.5°	413.1	490.2	531.3	491.5	727.9	1631.2	5723.5	12734.8	13624.5	13630.7
60°	395.7	510.1	466.6	459.1	632.1	1601.3	6172.7	13075.8	13867.1	13930.6
62.5°	378.3	513.9	416.8	430.5	562.4	1529.2	6507.4	12698.8	13538.6	13629.4
65°	358.3	414.3	384.5	400.6	526.3	1408.5	6401.6	12008.2	12921.5	13029.7
67.5°	334.7	350.9	349.6	369.5	513.9	1230.6	5844.2	11134.7	12257.0	12250.8
70°	306.1	314.8	318.5	339.7	490.2	1092.4	4870.0	10001.2	11369.9	11509.3
72.5°	276.2	283.7	287.4	306.1	466.6	1014.1	3780.0	8439.7	9848.2	10065.9
75°	243.9	248.8	253.8	270.0	441.7	898.3	2692.5	6442.7	7542.6	7884.8
77.5°	210.3	210.3	216.5	232.7	372.0	741.6	1806.6	4519.1	5110.1	5459.7
80°	170.5	171.7	169.2	186.6	273.7	507.7	1026.5	3018.5	3400.5	3467.7
82.5°	130.6	126.9	128.2	136.9	204.1	345.9	547.5	1875.1	1911.2	1873.8
85°	82.1	82.1	79.6	89.6	130.6	180.4	298.6	1148.4	897.1	853.6
87.5°	33.6	27.4	31.1	36.1	62.2	73.4	117.0	236.4	90.8	83.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)