

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: P651571

Luminaire Tested: **GALN-SA8D-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA 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: 37728.1 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

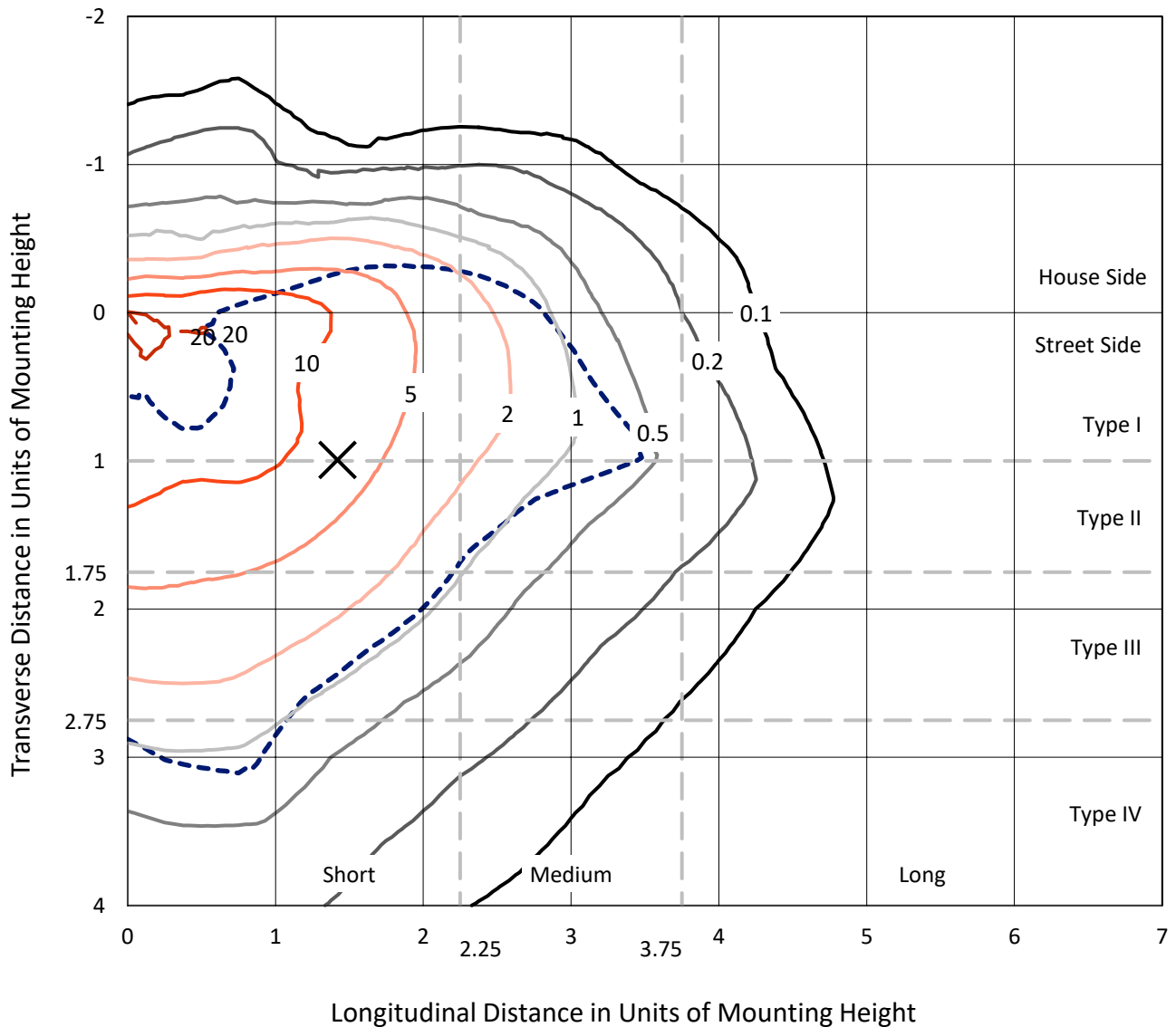
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

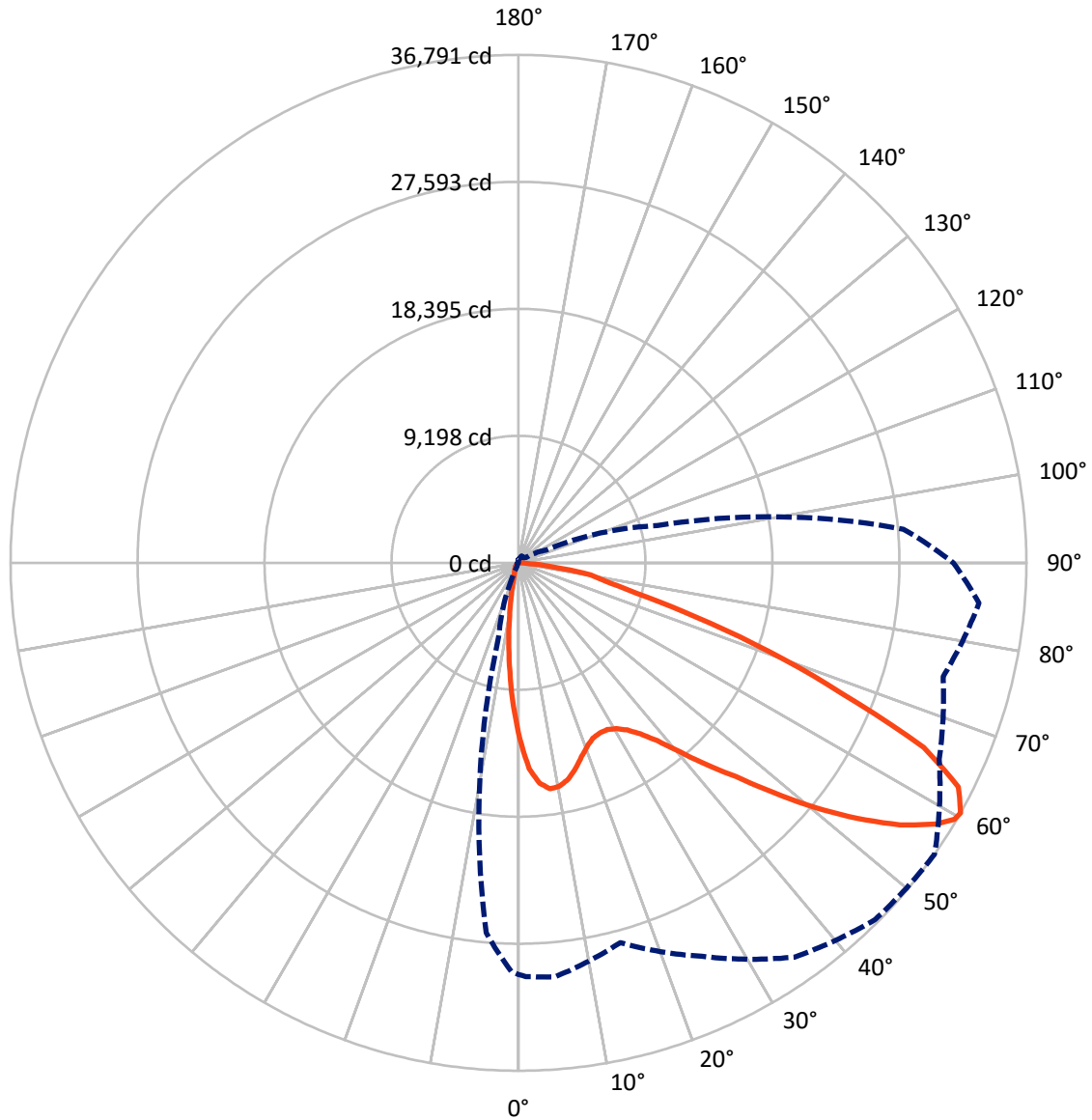
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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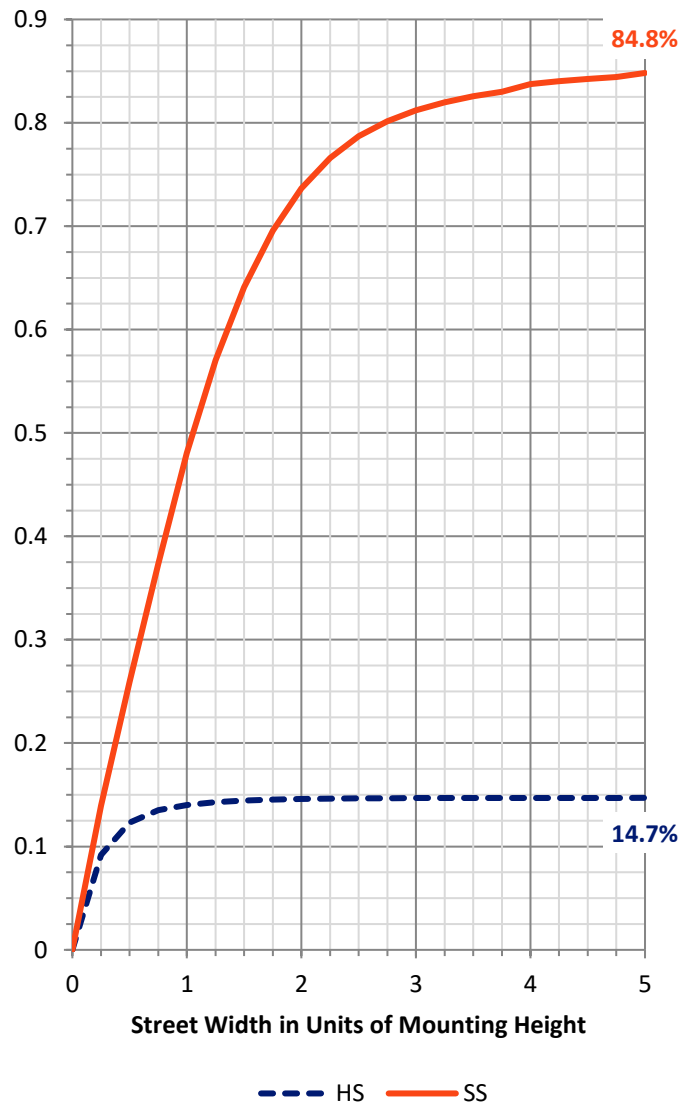
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5599.2	0.0	5599.2
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	32128.9	0.0	32128.9
	% Fixture	85.2	0.0	85.2
Total	Lumens	37728.1	0.0	37728.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	946.0	2.5
10°-20°	1862.9	4.9
20°-30°	2757.4	7.3
30°-40°	4110.1	10.9
40°-50°	6019.3	16.0
50°-60°	8690.0	23.0
60°-70°	9141.5	24.2
70°-80°	3760.5	10.0
80°-90°	440.4	1.2
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°	37728.1	100.0
0°-180°	37728.1	100.0

Coefficient of Utilization



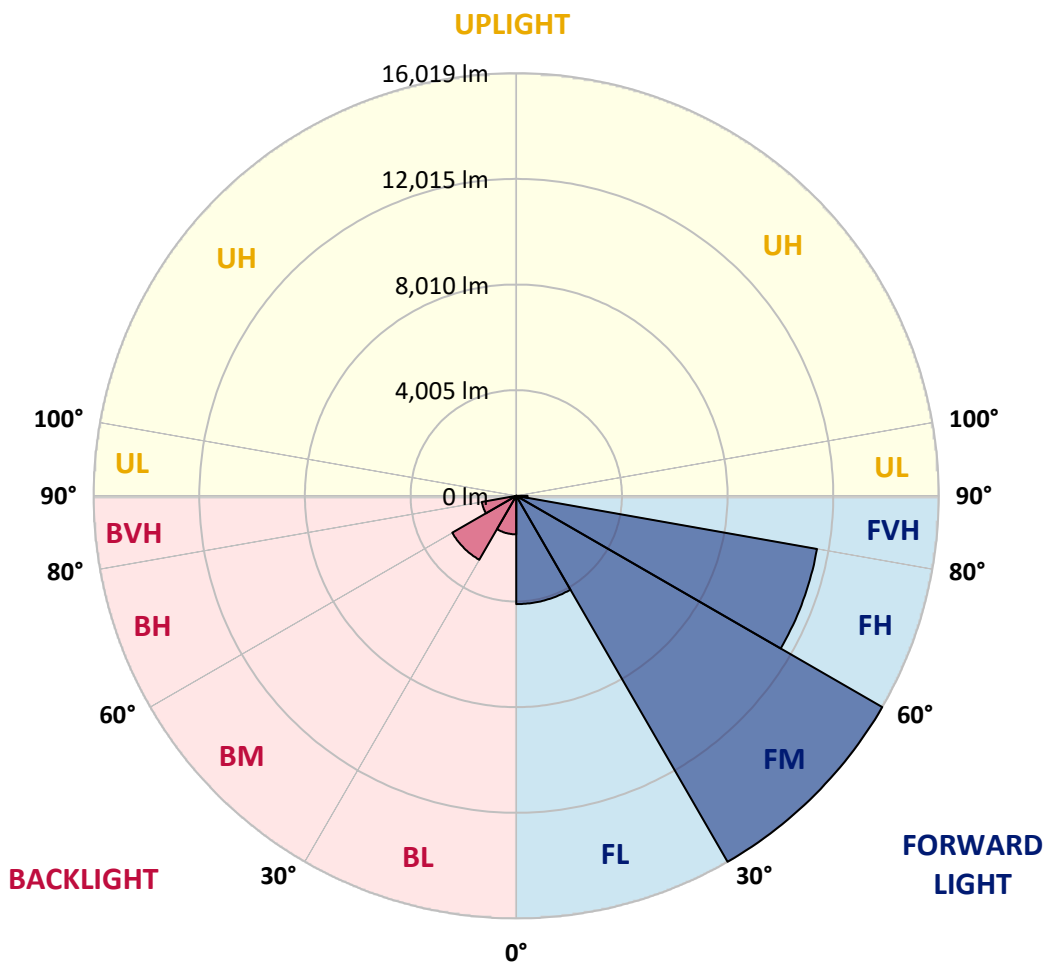
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4105.3	10.9			
FM (30°-60°)	16019.4	42.5			
FH (60°-80°)	11576.7	30.7			G4/12000
FVH (80°-90°)	427.5	1.1			G3/500
BL (0°-30°)	1460.9	3.9	B3/2500		
BM (30°-60°)	2800.1	7.4	B3/5000		
BH (60°-80°)	1325.3	3.5	B3/2500		G3/2500
BVH (80°-90°)	12.9	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12774.6	12774.6	12774.6	12774.6	12774.6	12774.6	12774.6	12774.6	12774.6	12774.6	12774.6
2.5°	13956.6	13933.4	14139.5	14476.4	14816.1	14993.3	14958.4	14943.9	14662.2	14456.0	14023.3
5°	13927.5	14046.6	14415.4	15327.2	16018.4	16352.3	16451.1	16035.8	15486.9	14691.3	13709.7
7.5°	13094.0	13242.1	13843.3	15269.1	16497.6	17223.5	17197.4	16532.4	15399.8	14168.6	12768.8
10°	12060.3	12234.4	12940.1	14670.9	16265.2	17223.5	17275.8	16433.6	15025.2	13445.5	11973.1
12.5°	11331.4	11537.5	12318.7	14113.4	15667.0	16610.8	16671.8	16061.9	14743.6	13166.7	11540.5
15°	11084.5	11279.1	12071.9	13831.7	15031.0	15539.2	15524.7	15460.8	14633.1	13233.5	11563.7
17.5°	11508.5	11668.2	12562.6	13959.4	14435.7	14383.5	14459.0	14766.8	14656.4	13793.9	12295.5
20°	12603.3	12766.0	13727.1	14351.5	13979.8	13648.8	13683.6	14197.6	14871.3	14848.1	13439.7
22.5°	14110.5	14386.3	15257.5	15112.3	13918.8	13192.8	13120.2	13788.1	15237.2	16061.9	14984.6
25°	16018.4	16297.2	16976.7	16326.2	14217.9	13085.4	13018.6	13663.2	15681.5	17246.8	16724.0
27.5°	17621.4	17833.4	18510.0	17508.1	14659.3	13131.8	13021.5	13680.7	16041.7	18254.4	18190.6
30°	18904.9	19061.8	19459.6	18059.9	15039.8	13335.1	13207.3	13936.2	16201.4	18745.2	19378.3
32.5°	19938.8	20203.0	20327.9	18649.4	15585.7	13718.4	13500.7	14427.0	16590.5	19352.2	20624.1
35°	21120.7	21425.6	21265.9	19212.7	16305.9	14316.7	14049.5	15222.7	17179.9	19912.6	22070.3
37.5°	22619.1	22970.5	22346.1	19805.2	17066.7	15216.9	15092.0	16340.7	18074.4	20714.2	23621.0
40°	24169.8	24373.2	23394.5	20525.4	18001.8	16526.6	16645.7	18001.8	19244.7	21675.3	25270.5
42.5°	25380.8	25572.5	24471.9	21129.4	18957.2	18080.2	18576.8	20005.5	20586.3	22659.8	26501.8
45°	26307.2	26469.8	25218.2	21788.6	20246.6	20330.8	21268.8	22070.3	21930.9	23260.9	27451.3
47.5°	27027.4	27166.8	25793.2	22497.2	22177.8	23083.8	24518.3	24858.1	23324.8	23911.4	28310.9
50°	27323.6	27364.3	25973.3	23400.3	24370.2	26591.8	28087.4	27881.2	24922.0	24634.5	29225.7
52.5°	27709.9	27701.1	26487.2	24259.9	26432.0	29728.1	31220.8	30753.2	26728.2	25717.7	30253.7
55°	28723.3	28735.0	27587.8	25479.5	28189.0	32260.3	33857.6	33517.8	28633.3	27547.2	31453.1
57.5°	29954.6	29998.1	29153.1	26905.4	29867.5	34095.7	35826.4	35695.8	31209.1	29582.9	32585.6
59°	30114.4	30201.5	29893.6	27910.2	30863.5	34659.0	36500.2	36628.0	32588.5	30924.6	33198.4
60°	29824.0	29969.1	30108.6	28479.4	31447.3	34862.3	36540.9	36790.6	33625.3	31836.4	33477.2
62.5°	28557.8	28787.2	29487.1	30230.5	32176.2	34229.3	35242.8	35765.5	34908.8	34232.1	33503.3
65°	26899.6	27018.6	28029.3	30541.3	30761.9	31273.0	31586.6	32257.5	33366.8	35155.7	32303.9
67.5°	24181.5	24532.9	25770.0	28737.8	26588.9	25984.9	25906.4	25238.5	28119.3	32954.4	29347.7
70°	19976.5	20133.3	21657.9	23560.0	20066.5	19137.3	19509.0	19259.2	21797.3	28369.0	23621.0
72.5°	15106.5	15460.8	16950.5	18780.0	13654.6	12449.4	13474.5	13381.6	16372.7	22799.2	16227.4
75°	10747.6	10977.1	12876.3	14697.1	9562.8	8102.1	8470.9	8816.5	11430.1	18001.8	9589.0
77.5°	7384.8	7582.3	9008.2	9719.6	6975.3	6682.1	6112.9	6446.9	7489.4	10680.9	5218.5
80°	4454.7	4446.0	5384.0	5558.3	4858.4	5642.4	4733.5	5314.3	4527.3	4570.8	2021.2
82.5°	2892.4	2863.4	3293.1	3589.3	2703.6	2843.0	1907.9	2750.1	2950.5	1274.9	638.9
85°	1295.1	1350.4	1582.7	2088.0	1184.8	630.2	389.1	845.0	1257.5	641.8	0.0
87.5°	133.6	104.5	278.8	508.2	162.6	17.4	58.1	29.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12774.6	12774.6	12774.6	12774.6	12774.6	12774.6	12774.6	12774.6	12774.6	12774.6	12774.6
2.5°	13822.9	13654.6	13152.1	12681.7	12278.0	11784.3	11464.9	10962.5	10657.7	10564.7	10579.2
5°	13268.3	12783.4	11827.9	11064.2	10213.4	9728.4	8990.7	8282.2	7898.8	7756.5	7692.6
7.5°	12106.7	11586.9	10434.0	9234.7	8322.8	7471.9	6923.1	6298.8	5871.9	5520.5	5459.5
10°	11244.3	10561.8	9133.0	7843.7	7123.4	6484.6	5935.8	5311.4	4809.0	4408.3	4297.9
12.5°	10727.3	9963.6	8369.3	7289.0	6606.6	5950.2	5235.9	4512.8	3998.8	3566.1	3365.7
15°	10634.4	9748.7	8154.4	6891.2	6049.0	5256.2	4306.6	3525.5	2996.9	2587.4	2462.6
17.5°	11194.9	10134.9	8122.5	6475.9	5320.1	4196.3	3208.9	2561.3	1966.0	1736.6	1646.6
20°	12193.8	10817.4	8119.5	5993.8	4570.8	3232.1	2253.5	1669.8	1428.8	1318.4	1266.1
22.5°	13555.8	11746.6	8273.4	5578.5	3792.6	2384.2	1608.8	1330.0	1190.6	1100.6	1080.3
25°	15219.7	13123.1	8650.9	5296.9	3197.3	1870.1	1327.1	1138.4	1022.2	981.5	964.1
27.5°	16697.9	14441.5	9066.2	5006.5	2770.4	1655.3	1231.3	1042.5	949.6	917.7	891.5
30°	17972.8	15638.0	9266.6	4623.1	2427.7	1515.9	1248.7	1115.2	993.1	897.3	853.8
32.5°	19035.6	16555.6	9397.3	4274.6	2137.3	1240.0	987.3	862.4	807.3	772.5	743.4
35°	20365.7	17548.8	9318.9	4077.2	1989.2	1129.6	900.2	743.4	650.5	580.8	551.8
37.5°	21759.5	18541.9	9182.4	3914.6	1922.4	1048.3	856.6	705.7	604.0	531.4	493.7
40°	23202.9	19462.5	9022.7	3763.6	1861.5	996.1	830.6	673.7	572.0	493.7	453.0
42.5°	24524.1	20359.9	8958.8	3664.8	1762.7	1004.7	810.2	659.2	540.2	458.8	423.9
45°	25592.8	21210.7	9045.9	3612.5	1655.3	990.3	816.0	641.8	514.0	435.6	400.7
47.5°	26734.1	22413.0	9327.6	3560.3	1550.7	920.6	859.6	638.9	502.4	421.1	383.3
50°	28061.2	23952.1	9972.3	3432.5	1423.0	845.0	914.8	636.0	487.9	403.7	365.9
52.5°	29829.8	25700.3	10637.3	3208.9	1237.1	772.5	874.1	627.3	458.8	383.3	345.6
55°	31418.2	27541.4	11200.7	2944.7	1001.9	667.9	787.0	589.5	409.5	348.5	313.6
57.5°	32074.5	28581.0	11183.3	2578.8	801.5	586.6	647.6	540.2	357.2	307.8	278.8
59°	31833.4	28450.4	10808.6	2308.6	731.8	543.0	537.2	534.4	334.0	278.8	255.6
60°	31493.7	27974.1	10405.0	2175.1	688.3	514.0	493.7	528.5	313.6	261.4	238.1
62.5°	30192.7	25999.3	9066.2	1948.6	630.2	435.6	394.9	447.2	278.8	226.5	206.2
65°	28308.1	22964.7	7675.2	1884.7	612.8	360.1	328.2	319.4	238.1	191.7	174.3
67.5°	24631.6	19433.5	6217.4	1841.1	618.6	302.0	287.5	241.0	197.5	159.7	148.1
70°	19720.9	15153.0	5090.7	1791.8	624.4	246.8	241.0	191.7	159.7	133.6	121.9
72.5°	11981.8	8982.0	4007.5	1556.5	606.9	197.5	214.9	145.2	116.1	95.8	90.0
75°	7408.0	6147.7	2485.8	1211.0	400.7	145.2	151.0	90.0	78.4	61.0	61.0
77.5°	4292.1	3882.6	888.6	435.6	177.1	87.1	66.8	46.4	43.6	26.2	26.2
80°	1780.1	1425.8	307.8	148.1	95.8	40.6	14.5	2.9	0.0	0.0	0.0
82.5°	519.8	461.7	84.2	66.8	29.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12774.6	12774.6	12774.6	12774.6	12774.6	12774.6	12774.6	12774.6	12774.6	12774.6	12774.6
2.5°	10332.4	10236.6	10193.0	10341.1	10204.6	10378.9	10245.2	10303.3	10474.7	10550.2	10744.8
5°	7733.3	7634.6	7588.1	7811.7	7800.1	7910.4	7898.8	8000.5	8087.6	7893.0	8093.4
7.5°	5386.9	5320.1	5430.4	5604.7	5790.5	5729.6	5729.6	5593.1	5639.6	5610.5	5601.8
10°	4097.5	3868.1	3810.1	3804.2	3873.9	3888.4	3810.1	3621.3	3691.0	3711.3	3833.3
12.5°	3223.4	3046.3	2776.2	2654.3	2622.3	2648.4	2390.0	2224.4	2302.8	2256.4	2375.5
15°	2311.6	2166.3	2006.6	1870.1	1832.5	1780.1	1498.5	1301.0	1277.7	1286.5	1306.8
17.5°	1649.5	1550.7	1550.7	1405.6	1327.1	1170.3	1028.0	940.9	932.2	940.9	955.4
20°	1216.8	1164.5	1158.7	1121.0	1033.8	929.3	830.6	813.1	807.3	821.8	827.6
22.5°	1048.3	993.1	946.7	943.8	862.4	775.4	728.9	705.7	708.5	714.3	728.9
25°	938.0	879.9	830.6	801.5	743.4	682.5	638.9	627.3	627.3	636.0	638.9
27.5°	859.6	787.0	743.4	702.7	650.5	598.2	560.4	551.8	546.0	551.8	566.2
30°	804.4	731.8	676.7	615.6	575.0	525.6	493.7	482.1	479.1	482.1	493.7
32.5°	688.3	644.7	601.1	546.0	496.6	464.7	429.8	409.5	409.5	415.3	426.9
35°	519.8	496.6	493.7	479.1	438.5	403.7	363.0	342.7	342.7	354.3	360.1
37.5°	458.8	415.3	409.5	403.7	386.3	339.8	302.0	284.6	281.7	290.4	302.0
40°	418.1	368.8	342.7	336.8	339.8	287.5	246.8	229.4	229.4	232.3	244.0
42.5°	386.3	328.2	281.7	275.8	287.5	241.0	200.4	182.9	182.9	182.9	197.5
45°	360.1	293.3	238.1	209.1	226.5	197.5	162.6	145.2	139.4	145.2	151.0
47.5°	342.7	267.2	209.1	168.5	168.5	156.8	130.7	110.3	104.5	107.5	116.1
50°	328.2	244.0	177.1	136.5	121.9	124.9	98.7	84.2	78.4	78.4	87.1
52.5°	304.9	220.7	153.9	116.1	92.9	84.2	72.6	61.0	58.1	61.0	66.8
55°	275.8	200.4	133.6	95.8	72.6	58.1	52.3	43.6	40.6	43.6	52.3
57.5°	244.0	168.5	107.5	75.5	49.4	37.8	34.8	29.0	23.2	26.2	32.0
59°	223.6	151.0	92.9	61.0	37.8	26.2	26.2	20.4	14.5	17.4	26.2
60°	214.9	139.4	78.4	52.3	32.0	20.4	20.4	14.5	8.7	11.6	20.4
62.5°	182.9	116.1	61.0	32.0	14.5	2.9	8.7	2.9	0.0	2.9	8.7
65°	153.9	92.9	40.6	14.5	0.0	0.0	0.0	0.0	0.0	0.0	2.9
67.5°	127.7	69.7	20.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	101.7	46.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	69.7	26.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	43.6	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	17.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	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°	12774.6	12774.6	12774.6	12774.6	12774.6	12774.6	12774.6	12774.6	12774.6	12774.6
2.5°	10756.4	11171.6	11427.2	11909.2	12402.9	12783.4	13259.6	13686.5	13863.6	13956.6
5°	8296.7	8874.6	9365.4	10100.1	10782.5	11613.0	12455.2	13448.3	13828.8	13927.5
7.5°	5822.5	6412.0	6926.0	7776.9	8749.7	9861.9	11122.2	12382.6	12937.3	13094.0
10°	4205.0	4835.2	5462.4	6313.3	7222.2	8427.3	9740.0	11299.4	11938.2	12060.3
12.5°	2654.3	3330.9	4350.2	5401.4	6362.7	7332.6	8706.1	10402.1	11107.8	11331.4
15°	1539.1	2044.4	2814.0	4184.6	5407.2	6690.7	8189.2	10065.2	10855.1	11084.5
17.5°	1030.9	1205.2	1733.6	2782.0	4396.7	6098.3	8058.5	10341.1	11215.2	11508.5
20°	868.3	946.7	1132.6	1696.0	3386.0	5569.9	8093.4	11090.4	12237.4	12603.3
22.5°	763.7	836.4	955.4	1219.7	2363.9	4913.5	8259.0	12161.9	13643.0	14110.5
25°	673.7	746.3	850.8	1010.5	1588.5	4155.6	8621.9	13730.1	15504.3	16018.4
27.5°	598.2	665.0	755.0	891.5	1222.6	3310.5	8944.3	15257.5	17203.2	17621.4
30°	528.5	583.7	670.8	775.4	1016.4	2552.6	9106.9	16593.4	18440.3	18904.9
32.5°	458.8	511.1	595.3	679.5	836.4	1945.7	8993.7	17574.9	19642.6	19938.8
35°	392.1	447.2	516.9	595.3	723.1	1571.1	8427.3	18678.4	20888.3	21120.7
37.5°	336.8	383.3	455.9	516.9	653.4	1257.5	7742.0	19671.6	22285.2	22619.1
40°	284.6	331.0	403.7	458.8	601.1	990.3	7123.4	20775.1	23757.5	24169.8
42.5°	232.3	287.5	351.4	441.4	516.9	755.0	6374.3	21669.5	24863.9	25380.8
45°	185.9	246.8	316.6	438.5	450.1	575.0	5651.2	22366.5	25842.6	26307.2
47.5°	148.1	209.1	304.9	409.5	368.8	455.9	5238.8	23095.4	26655.7	27027.4
50°	119.1	174.3	319.4	360.1	307.8	386.3	5227.2	23908.5	27076.8	27323.6
52.5°	95.8	142.3	270.0	275.8	261.4	339.8	5540.8	24823.3	27506.6	27709.9
55°	81.3	119.1	177.1	203.3	235.2	307.8	5776.0	26231.7	28531.7	28723.3
57.5°	63.9	101.7	136.5	162.6	209.1	281.7	5807.9	27317.8	29829.8	29954.6
59°	55.2	87.1	121.9	145.2	191.7	264.2	5677.3	27384.6	29913.9	30114.4
60°	46.4	78.4	107.5	136.5	177.1	249.8	5535.0	26899.6	29600.3	29824.0
62.5°	34.8	61.0	78.4	110.3	145.2	214.9	4861.2	25206.6	28401.0	28557.8
65°	23.2	43.6	58.1	81.3	113.3	185.9	3961.0	23011.2	26548.3	26899.6
67.5°	14.5	32.0	46.4	61.0	92.9	156.8	2822.6	19732.6	23955.0	24181.5
70°	8.7	20.4	34.8	49.4	72.6	124.9	1675.6	15597.3	19930.0	19976.5
72.5°	5.8	14.5	23.2	34.8	58.1	113.3	813.1	10166.8	14551.9	15106.5
75°	2.9	8.7	14.5	26.2	46.4	92.9	389.1	6792.4	10587.9	10747.6
77.5°	0.0	2.9	8.7	17.4	34.8	72.6	226.5	4460.5	7219.3	7384.8
80°	0.0	0.0	5.8	14.5	26.2	46.4	136.5	2631.0	4373.4	4454.7
82.5°	0.0	0.0	2.9	11.6	17.4	34.8	69.7	1155.8	2863.4	2892.4
85°	0.0	0.0	2.9	11.6	14.5	23.2	26.2	156.8	1271.9	1295.1
87.5°	0.0	0.0	2.9	14.5	14.5	14.5	14.5	8.7	107.5	133.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)