

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: P652001

Luminaire Tested: **GALN-SA7A-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21924 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

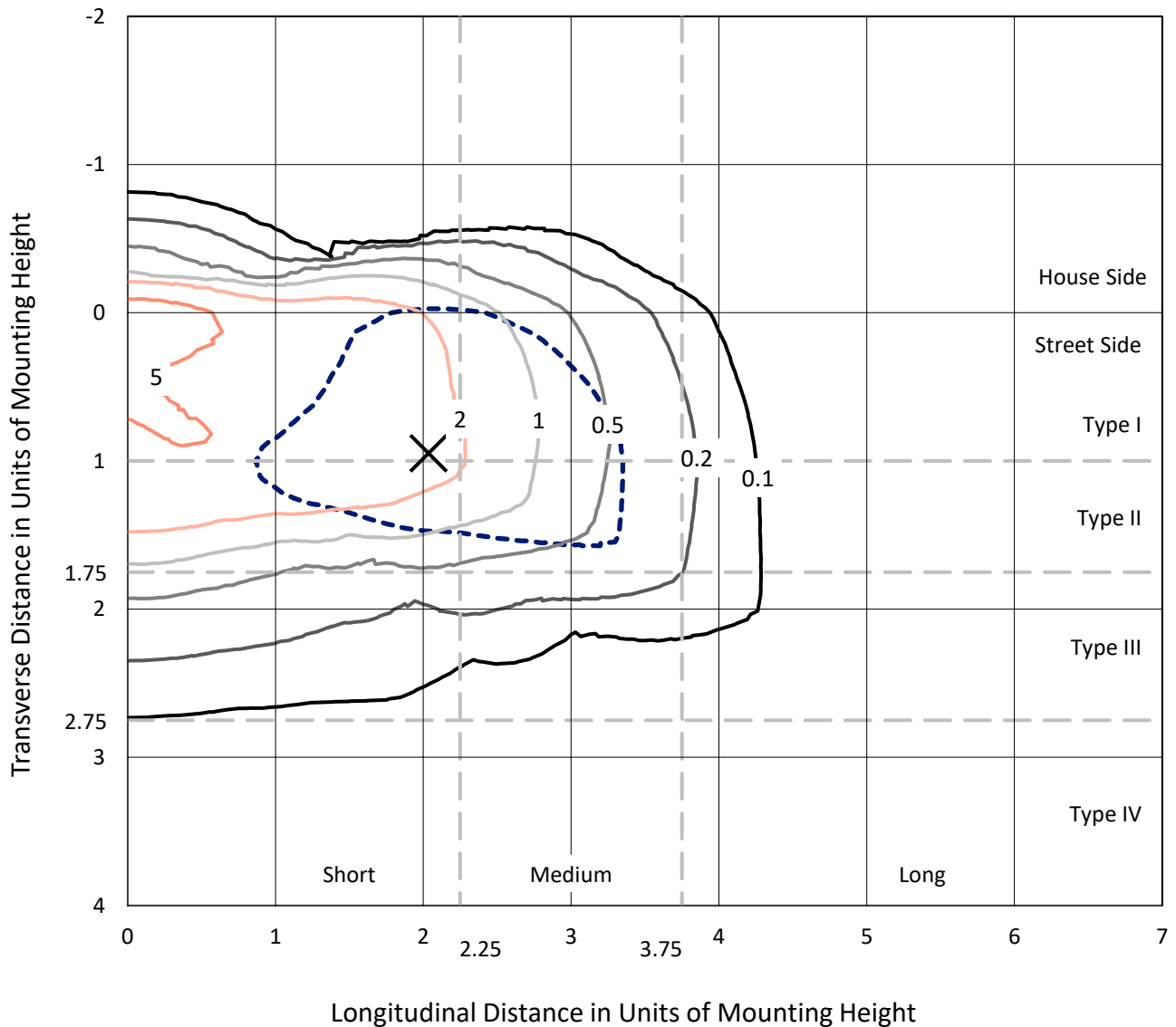
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

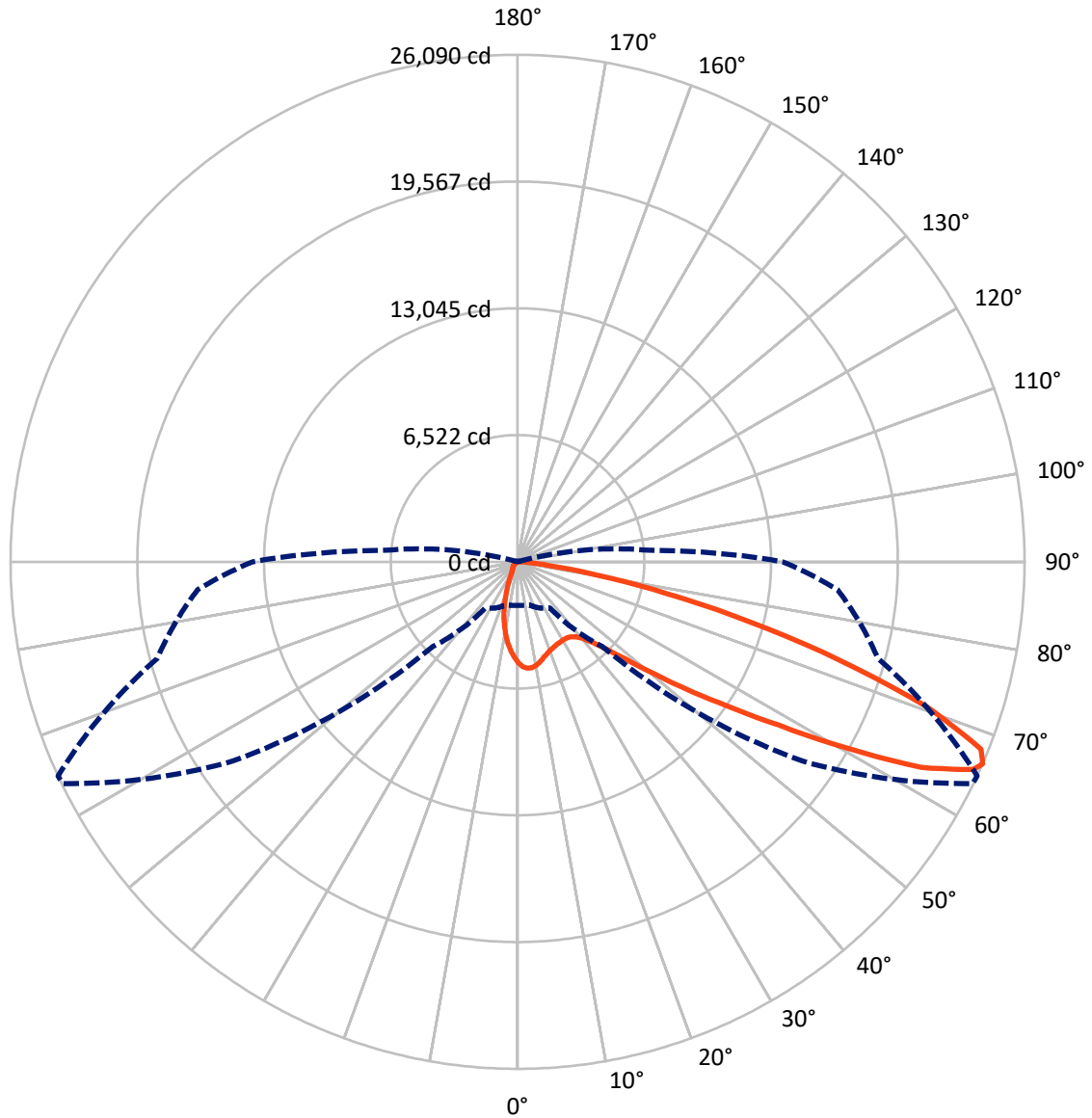
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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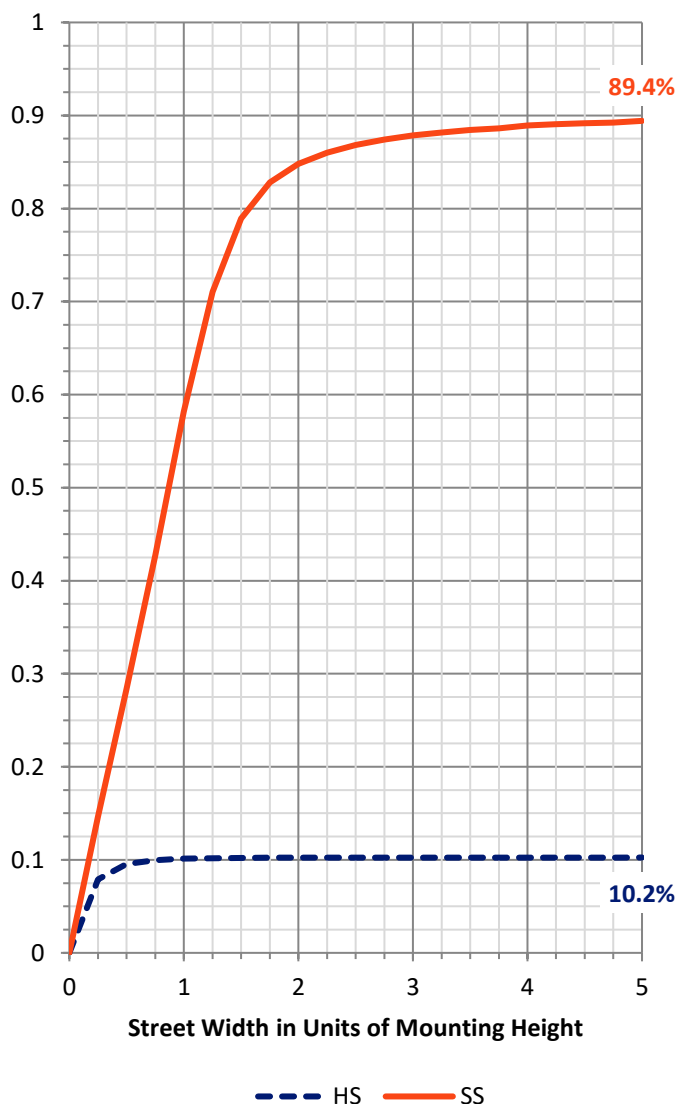
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2267.2	0.0	2267.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	19656.8	0.0	19656.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	21924.0	0.0	21924.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.2	1.9
10°-20°	926.4	4.2
20°-30°	1327.1	6.1
30°-40°	1938.4	8.8
40°-50°	3250.3	14.8
50°-60°	5424.3	24.7
60°-70°	5757.7	26.3
70°-80°	2607.7	11.9
80°-90°	266.8	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°	21924.0	100.0
0°-180°	21924.0	100.0

Coefficient of Utilization

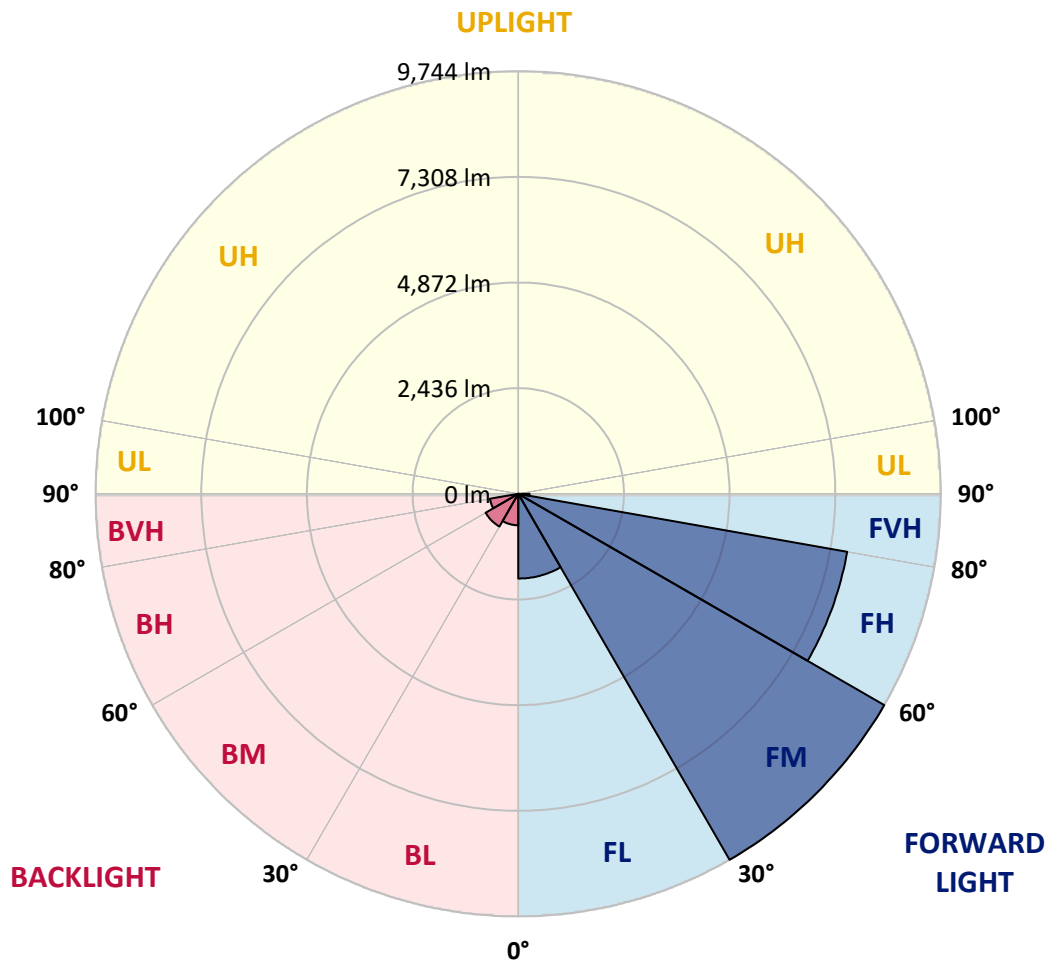


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1953.5	8.9			
FM (30°-60°)	9743.5	44.4			
FH (60°-80°)	7701.4	35.1			G4/12000
FVH (80°-90°)	258.3	1.2			G3/500
BL (0°-30°)	725.3	3.3	B2/1000		
BM (30°-60°)	869.5	4.0	B1/1000		
BH (60°-80°)	664.0	3.0	B2/1000		G2/1000
BVH (80°-90°)	8.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5199.0	5199.0	5199.0	5199.0	5199.0	5199.0	5199.0	5199.0	5199.0	5199.0	5199.0
2.5°	5478.9	5484.7	5492.2	5502.6	5510.0	5487.8	5456.7	5421.1	5413.7	5338.2	5246.4
5°	5185.7	5194.5	5259.7	5295.3	5375.2	5447.7	5493.7	5499.6	5496.6	5425.5	5279.0
7.5°	4768.0	4793.3	4856.9	4919.1	5068.7	5206.4	5369.3	5483.3	5490.7	5471.5	5289.3
10°	4429.0	4445.3	4477.8	4600.8	4725.2	4935.4	5163.5	5378.2	5395.9	5473.0	5280.5
12.5°	4164.0	4187.6	4227.6	4322.4	4471.9	4670.3	4929.5	5218.2	5255.2	5444.8	5255.2
15°	3978.9	3990.7	4030.7	4123.9	4269.1	4452.7	4714.8	5050.9	5083.5	5407.8	5250.8
17.5°	3891.5	3904.8	3932.9	4006.9	4127.0	4297.2	4553.3	4916.1	4957.6	5384.1	5267.1
20°	3915.2	3927.0	3928.5	3967.0	4048.4	4192.0	4434.9	4790.3	4843.6	5369.3	5293.8
22.5°	4049.9	4051.4	4033.6	4015.9	4044.0	4147.6	4362.4	4710.4	4765.1	5366.3	5324.9
25°	4251.3	4255.7	4226.1	4164.0	4107.7	4160.9	4346.0	4658.6	4707.4	5358.9	5344.1
27.5°	4529.7	4528.2	4519.3	4415.7	4255.7	4220.2	4359.4	4630.4	4671.8	5338.2	5351.5
30°	4919.1	4907.3	4888.1	4771.1	4526.8	4363.9	4415.7	4612.6	4651.2	5308.6	5332.3
32.5°	5302.7	5347.1	5344.1	5233.0	4928.0	4620.0	4532.7	4636.3	4664.4	5289.3	5304.1
35°	5749.8	5748.4	5862.4	5820.9	5464.1	4947.3	4732.6	4714.8	4737.0	5302.7	5290.8
37.5°	6164.4	6203.0	6380.7	6423.6	6097.8	5409.2	5015.4	4883.6	4891.0	5393.0	5323.4
40°	6681.2	6755.2	7020.3	7164.0	6876.7	6094.9	5432.9	5193.1	5194.5	5615.1	5446.3
42.5°	7347.6	7464.5	7711.9	7951.7	7797.8	6906.3	6059.3	5683.2	5680.3	6006.0	5727.6
45°	8157.6	8239.0	8520.3	8900.9	8803.2	8039.1	6971.5	6442.8	6404.4	6647.2	6226.7
47.5°	8856.5	8967.6	9253.4	9687.2	10131.4	9422.1	8061.3	7486.8	7461.6	7667.5	7082.6
50°	9161.5	9259.2	9559.9	10168.4	11245.0	11237.6	9684.3	9010.5	8967.6	9078.6	8406.4
52.5°	8826.9	8918.7	9222.2	9980.4	11769.2	13449.9	12035.7	10922.2	10870.3	10728.2	9987.8
55°	7680.8	7756.3	8205.0	9075.7	11567.8	14924.7	15275.7	13284.0	13082.6	12530.3	11778.0
57.5°	6115.6	6077.1	6355.5	7366.8	10386.2	15419.3	18601.5	16226.3	15866.5	14088.1	13292.9
60°	4238.0	4356.5	4469.0	5135.3	7809.6	14561.9	20670.1	19925.3	19451.4	15620.6	14744.1
62.5°	3115.6	3194.0	3268.0	3576.1	4910.3	11627.0	21035.8	23724.9	23304.4	17248.1	16128.6
65°	2464.0	2469.9	2499.5	2803.1	3235.5	7560.8	19278.2	25867.6	25759.6	18814.7	16689.8
66°	2244.9	2246.3	2292.2	2618.0	2903.8	6157.0	17870.0	26030.5	26089.8	19190.9	16525.4
67.5°	1962.1	1956.1	2022.8	2352.9	2644.7	4439.4	15349.7	25370.1	25721.1	19479.6	15934.6
70°	1520.8	1513.4	1594.8	1973.9	2435.9	2961.6	10202.5	21783.7	22349.3	18888.8	14098.4
72.5°	1012.8	1018.8	1158.0	1557.8	2324.8	2607.6	6137.8	16571.3	17370.9	15598.4	11091.0
75°	590.8	601.2	759.7	1158.0	2018.3	2486.2	3473.9	11816.6	12327.5	10771.1	6909.3
77.5°	309.5	313.9	425.0	764.0	1547.4	2308.5	2314.4	7549.0	7788.8	5234.6	2735.0
80°	164.3	160.0	228.1	460.5	1064.7	2027.1	1877.6	3996.6	4155.0	1554.8	691.6
82.5°	62.2	68.1	121.4	302.1	629.3	1455.6	1617.0	1766.6	1711.8	342.0	290.2
85°	11.9	14.8	51.8	179.1	316.9	608.6	1192.0	866.2	802.6	128.8	167.4
87.5°	1.5	2.9	14.8	43.0	45.9	205.8	352.5	239.9	207.3	47.3	69.6
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°	5199.0	5199.0	5199.0	5199.0	5199.0	5199.0	5199.0	5199.0	5199.0	5199.0	5199.0
2.5°	5201.9	5162.0	5028.7	4896.9	4762.2	4640.7	4557.8	4423.1	4389.0	4340.1	4312.0
5°	5191.6	5098.3	4842.1	4562.3	4301.6	4020.3	3805.6	3598.3	3487.2	3430.9	3410.3
7.5°	5162.0	5013.9	4614.1	4175.8	3758.2	3337.7	2971.9	2693.6	2514.3	2391.5	2308.5
10°	5102.8	4898.4	4349.1	3746.3	3115.6	2560.3	2096.8	1744.3	1471.9	1386.0	1389.0
12.5°	5042.0	4769.6	4052.9	3269.6	2487.7	1787.3	1295.6	1017.3	887.0	844.0	835.2
15°	4985.8	4646.7	3762.6	2807.5	1852.5	1158.0	835.2	737.4	701.9	694.5	693.0
17.5°	4956.2	4532.7	3453.1	2278.9	1292.7	786.3	669.3	642.7	632.3	624.9	621.9
20°	4931.0	4433.4	3157.0	1784.3	884.1	644.1	599.7	574.6	556.7	549.3	544.9
22.5°	4913.2	4331.2	2850.5	1381.6	676.8	571.5	531.6	499.0	473.8	465.0	459.0
25°	4886.5	4218.7	2541.0	1009.9	570.1	507.9	462.0	423.5	390.9	374.7	371.6
27.5°	4848.0	4091.4	2201.9	747.8	509.4	451.6	395.4	348.0	315.4	297.6	299.1
30°	4785.9	3958.1	1862.8	593.8	460.5	393.9	333.2	287.3	256.2	242.9	241.4
32.5°	4711.8	3796.7	1551.8	509.4	416.1	342.0	278.4	238.4	214.7	204.4	202.8
35°	4642.2	3633.8	1234.9	457.6	370.2	294.7	234.0	199.9	182.2	173.2	174.8
37.5°	4603.7	3488.7	962.5	416.1	333.2	253.2	201.4	171.7	155.5	148.1	146.6
40°	4628.9	3370.2	765.6	379.0	291.7	217.7	173.2	148.1	131.8	121.4	121.4
42.5°	4747.4	3318.4	617.5	343.5	253.2	188.0	151.0	127.3	109.6	99.2	100.7
45°	5108.7	3373.2	516.8	311.0	217.7	162.9	130.3	105.1	88.8	81.4	80.0
47.5°	5708.4	3579.0	447.2	276.9	186.6	139.2	109.6	87.4	71.1	65.2	63.7
50°	6756.8	4004.0	395.4	242.9	158.4	118.5	90.3	69.6	56.3	50.4	50.4
52.5°	8199.1	4931.0	358.4	204.4	133.3	100.7	74.0	56.3	44.4	39.9	38.5
55°	9706.5	5908.3	339.1	171.7	111.1	82.9	59.2	44.4	34.1	29.6	28.2
57.5°	11156.1	6675.4	316.9	139.2	88.8	63.7	45.9	34.1	23.7	20.8	19.3
60°	12546.6	7295.8	269.5	111.1	69.6	45.9	34.1	23.7	16.3	13.3	13.3
62.5°	13790.5	7657.1	211.8	88.8	53.3	32.5	22.2	17.7	11.9	8.9	8.9
65°	13935.5	7187.7	160.0	68.1	38.5	20.8	13.3	13.3	8.9	5.9	5.9
66°	13643.9	6789.3	140.7	62.2	34.1	17.7	11.9	10.3	7.4	4.5	4.5
67.5°	12992.3	6109.7	121.4	53.3	28.2	13.3	8.9	8.9	5.9	2.9	2.9
70°	11225.8	4990.2	96.2	39.9	20.8	10.3	5.9	5.9	4.5	2.9	2.9
72.5°	8555.9	3725.6	78.5	29.6	14.8	7.4	4.5	4.5	4.5	2.9	2.9
75°	5160.5	2006.5	60.7	22.2	13.3	5.9	2.9	4.5	5.9	4.5	2.9
77.5°	1901.3	682.6	47.3	17.7	10.3	5.9	2.9	2.9	5.9	4.5	4.5
80°	466.4	177.7	34.1	14.8	10.3	5.9	2.9	2.9	5.9	5.9	5.9
82.5°	216.2	75.5	23.7	13.3	10.3	5.9	2.9	2.9	4.5	5.9	5.9
85°	124.4	35.6	19.3	14.8	10.3	5.9	2.9	2.9	4.5	5.9	5.9
87.5°	50.4	17.7	17.7	14.8	11.9	7.4	2.9	2.9	2.9	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)