

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: P457591

Luminaire Tested: **GALN-SA9A-722-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457591
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-SA9A-722-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2200K, 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: 24943 lumens
Efficiency: N/A
Efficacy: 91.0 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

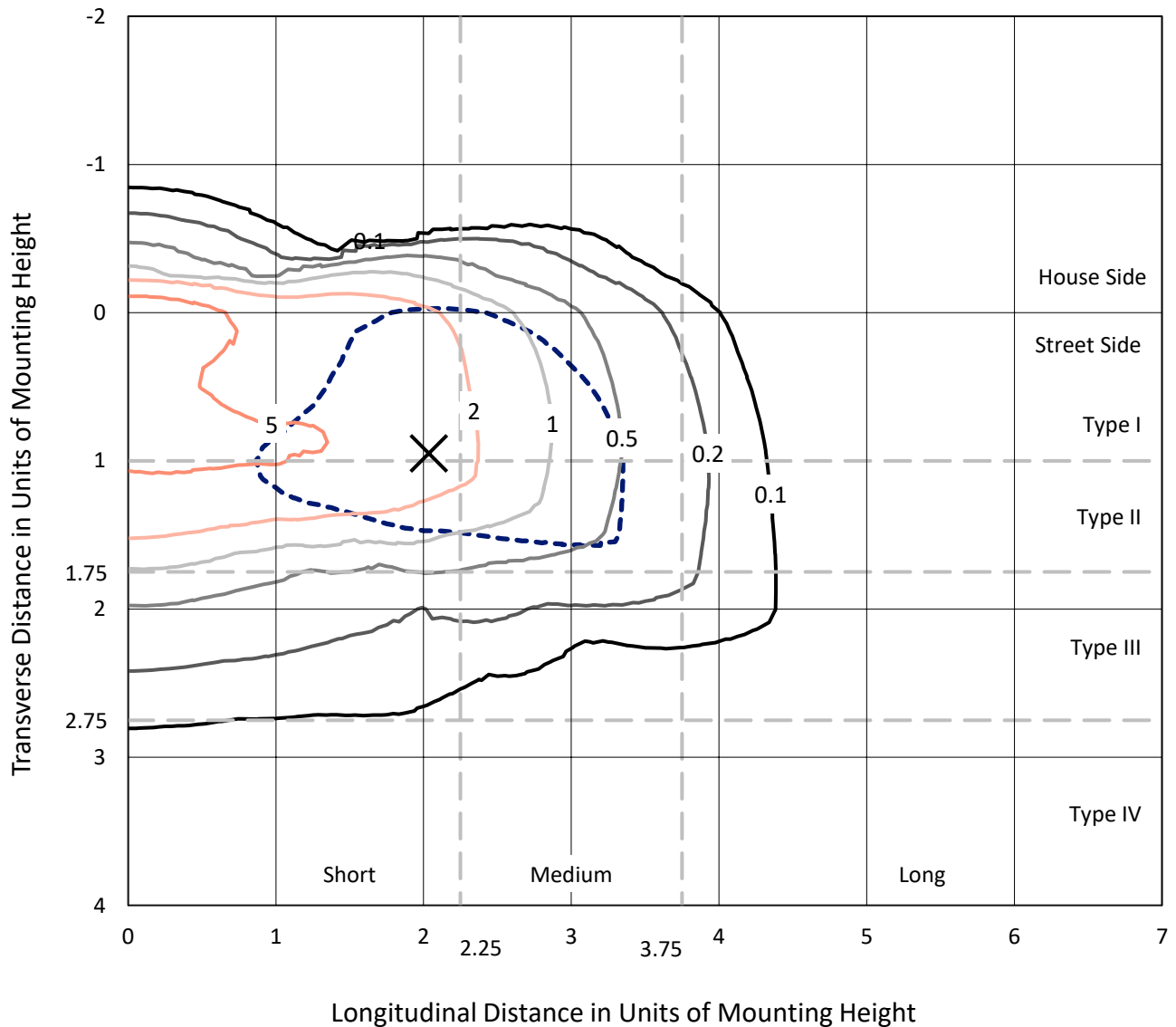
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

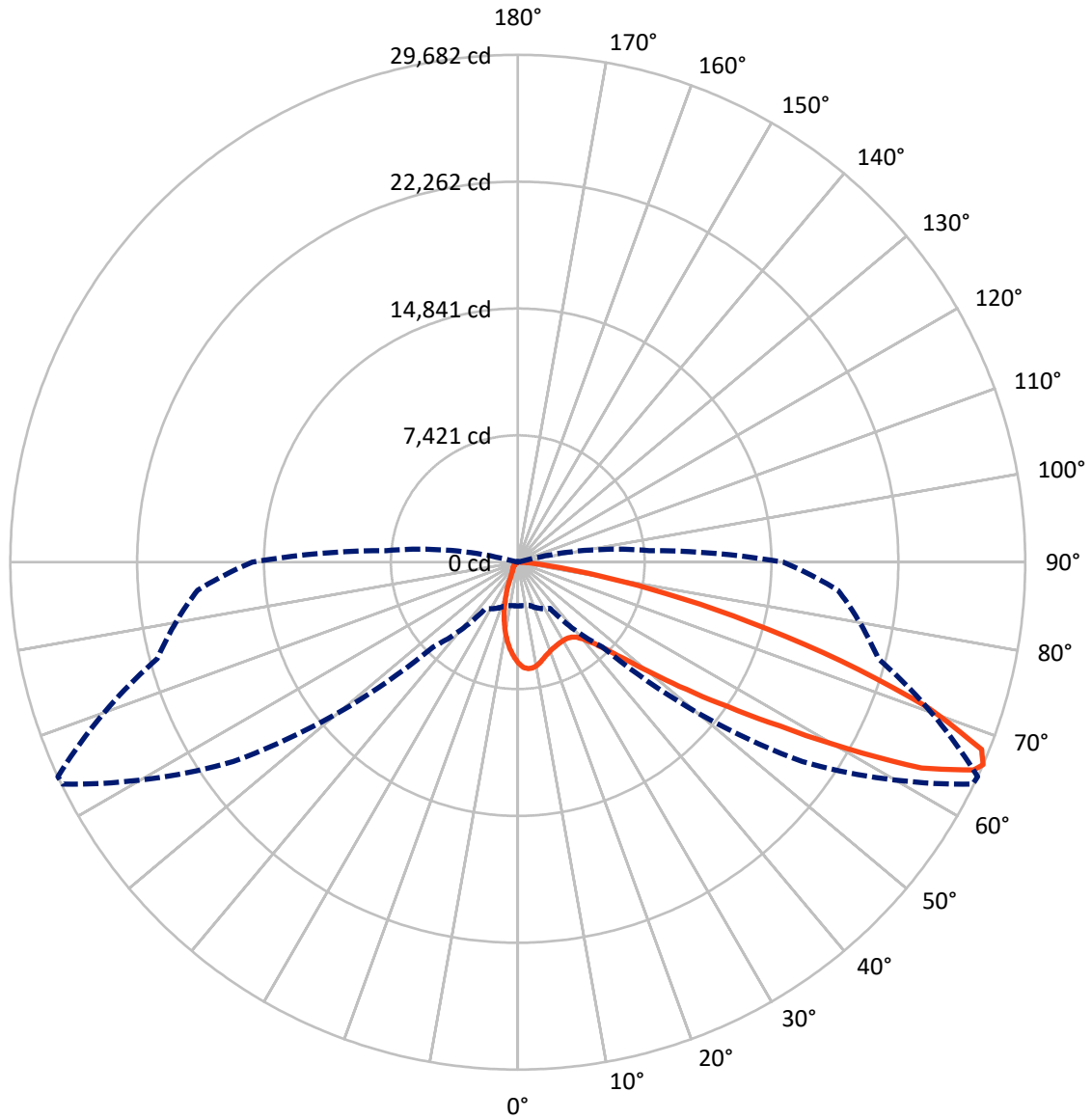
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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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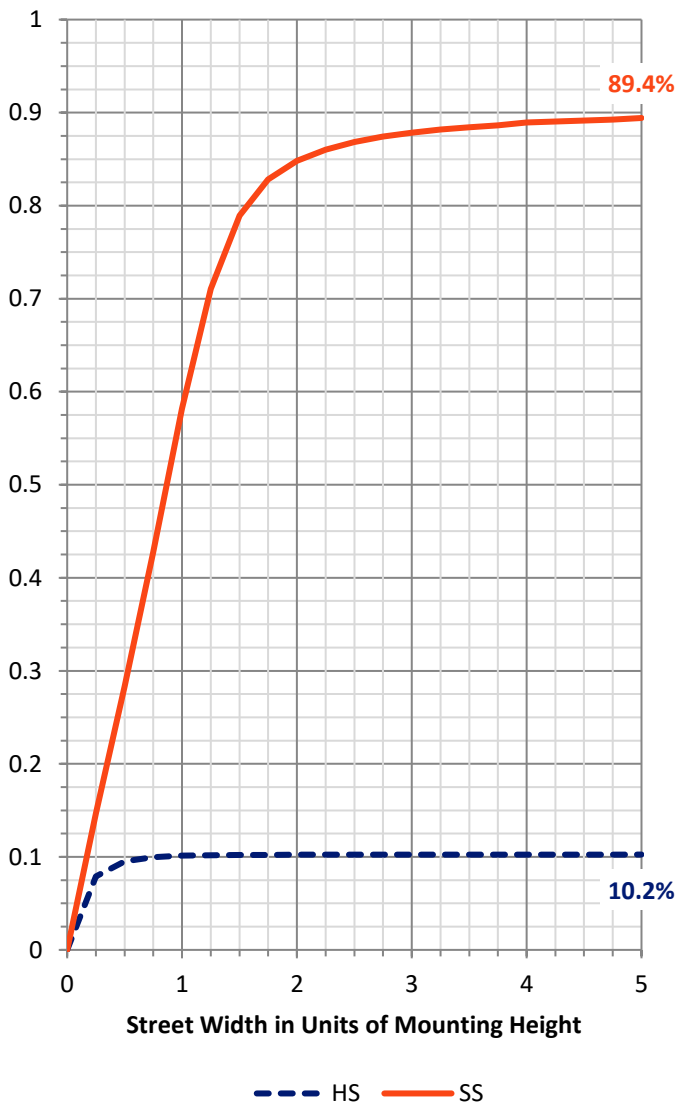
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2579.5	0.0	2579.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	22363.5	0.0	22363.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	24943.0	0.0	24943.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.7	1.9
10°-20°	1054.0	4.2
20°-30°	1509.9	6.1
30°-40°	2205.3	8.8
40°-50°	3697.9	14.8
50°-60°	6171.2	24.7
60°-70°	6550.6	26.3
70°-80°	2966.7	11.9
80°-90°	303.6	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°	24943.0	100.0
0°-180°	24943.0	100.0



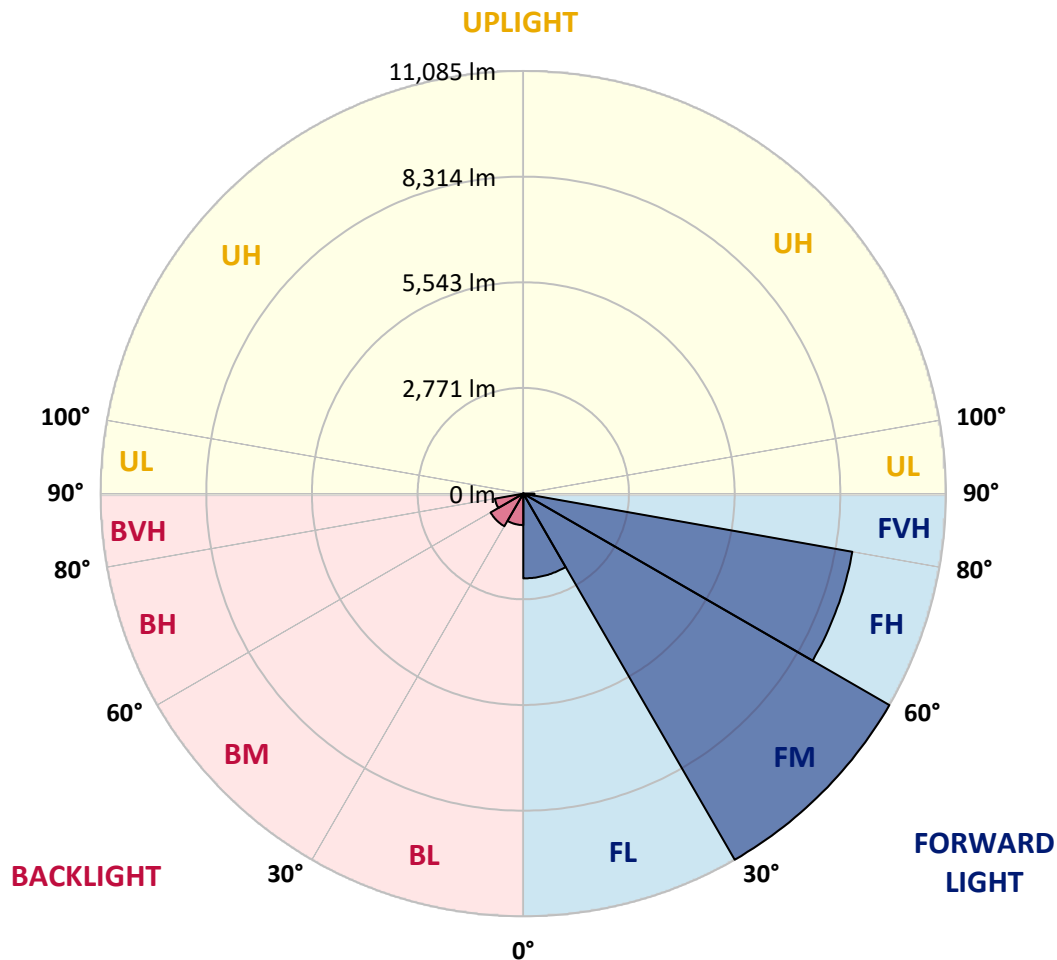
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2222.5	8.9			
FM (30°-60°)	11085.2	44.4			
FH (60°-80°)	8761.9	35.1			G4/12000
FVH (80°-90°)	293.9	1.2			G3/500
BL (0°-30°)	825.1	3.3	B2/1000		
BM (30°-60°)	989.2	4.0	B1/1000		
BH (60°-80°)	755.4	3.0	B2/1000		G2/1000
BVH (80°-90°)	9.7	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°	5914.9	5914.9	5914.9	5914.9	5914.9	5914.9	5914.9	5914.9	5914.9	5914.9	5914.9
2.5°	6233.3	6240.0	6248.5	6260.3	6268.7	6243.4	6208.0	6167.6	6159.2	6073.3	5968.8
5°	5899.7	5909.9	5984.0	6024.4	6115.4	6197.9	6250.2	6256.9	6253.5	6172.7	6005.9
7.5°	5424.7	5453.3	5525.7	5596.5	5766.7	5923.3	6108.6	6238.4	6246.8	6224.9	6017.7
10°	5038.9	5057.4	5094.5	5234.3	5375.8	5615.0	5874.5	6118.8	6139.0	6226.6	6007.6
12.5°	4737.3	4764.3	4809.8	4917.6	5087.7	5313.5	5608.3	5936.8	5978.9	6194.6	5978.9
15°	4526.7	4540.2	4585.7	4691.8	4856.9	5065.8	5364.0	5746.4	5783.5	6152.4	5973.9
17.5°	4427.3	4442.5	4474.5	4558.7	4695.2	4888.9	5180.4	5593.1	5640.3	6125.5	5992.4
20°	4454.3	4467.8	4469.5	4513.3	4605.9	4769.3	5045.6	5449.9	5510.6	6108.6	6022.7
22.5°	4607.6	4609.3	4589.1	4568.8	4600.9	4718.8	4963.1	5359.0	5421.3	6105.3	6058.1
25°	4836.7	4841.8	4808.1	4737.3	4673.3	4733.9	4944.5	5300.0	5355.6	6096.9	6080.0
27.5°	5153.4	5151.7	5141.6	5023.7	4841.8	4801.3	4959.7	5268.0	5315.2	6073.3	6088.4
30°	5596.5	5583.0	5561.1	5428.0	5150.1	4964.7	5023.7	5247.8	5291.6	6039.6	6066.5
32.5°	6032.8	6083.4	6080.0	5953.7	5606.6	5256.2	5156.8	5274.7	5306.7	6017.7	6034.5
35°	6541.6	6539.9	6669.6	6622.5	6216.5	5628.5	5384.2	5364.0	5389.3	6032.8	6019.4
37.5°	7013.3	7057.1	7259.3	7308.1	6937.5	6154.1	5706.0	5556.1	5564.5	6135.6	6056.4
40°	7601.3	7685.5	7987.1	8150.5	7823.6	6934.1	6181.1	5908.2	5909.9	6388.3	6196.2
42.5°	8359.4	8492.5	8773.8	9046.7	8871.5	7857.3	6893.7	6465.8	6462.4	6833.1	6516.3
45°	9280.9	9373.5	9693.6	10126.6	10015.4	9146.1	7931.5	7330.0	7286.2	7562.5	7084.1
47.5°	10076.1	10202.4	10527.6	11021.2	11526.6	10719.6	9171.4	8517.7	8489.1	8723.3	8057.8
50°	10423.1	10534.3	10876.3	11568.7	12793.4	12785.0	11017.8	10251.3	10202.4	10328.8	9563.9
52.5°	10042.4	10146.8	10492.2	11354.7	13389.8	15301.9	13693.1	12426.2	12367.2	12205.5	11363.2
55°	8738.4	8824.3	9334.8	10325.4	13160.7	16979.9	17379.1	15113.2	14884.1	14255.7	13399.9
57.5°	6957.7	6913.9	7230.6	8381.3	11816.3	17542.6	21162.9	18460.7	18051.3	16028.0	15123.4
60°	4821.5	4956.3	5084.4	5842.5	8885.0	16567.1	23516.4	22669.0	22129.9	17771.7	16774.3
62.5°	3544.6	3633.9	3718.1	4068.5	5586.4	13228.1	23932.5	26991.9	26513.5	19623.1	18349.5
65°	2803.3	2810.0	2843.7	3189.1	3681.0	8602.0	21932.8	29429.6	29306.7	21405.5	18988.0
66°	2554.0	2555.7	2607.9	2978.5	3303.7	7004.9	20330.7	29615.0	29682.3	21833.4	18801.0
67.5°	2232.2	2225.5	2301.3	2677.0	3008.8	5050.7	17463.4	28863.6	29262.9	22161.9	18128.8
70°	1730.2	1721.7	1814.4	2245.7	2771.3	3369.4	11607.4	24783.3	25426.8	21489.8	16039.8
72.5°	1152.3	1159.1	1317.4	1772.3	2644.9	2966.7	6983.0	18853.2	19763.0	17746.4	12618.2
75°	672.2	684.0	864.2	1317.4	2296.2	2828.6	3952.3	13443.7	14024.9	12254.3	7860.7
77.5°	352.1	357.2	483.5	869.3	1760.5	2626.4	2633.2	8588.5	8861.4	5955.3	3111.6
80°	187.0	181.9	259.4	523.9	1211.3	2306.3	2136.2	4546.9	4727.2	1768.9	786.7
82.5°	70.8	77.5	138.1	343.7	716.0	1656.0	1839.7	2009.8	1947.5	389.2	330.2
85°	13.5	16.8	59.0	203.8	360.5	692.4	1356.2	985.5	913.1	146.6	190.4
87.5°	1.7	3.4	16.8	48.9	52.2	234.2	401.0	272.9	235.9	53.9	79.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5914.9	5914.9	5914.9	5914.9	5914.9	5914.9	5914.9	5914.9	5914.9	5914.9	5914.9
2.5°	5918.3	5872.8	5721.2	5571.2	5417.9	5279.8	5185.4	5032.1	4993.4	4937.8	4905.8
5°	5906.5	5800.3	5508.9	5190.5	4894.0	4573.9	4329.6	4093.8	3967.4	3903.4	3879.8
7.5°	5872.8	5704.3	5249.5	4750.8	4275.7	3797.3	3381.1	3064.4	2860.6	2720.8	2626.4
10°	5805.4	5572.9	4947.9	4262.2	3544.6	2912.8	2385.5	1984.6	1674.6	1576.9	1580.2
12.5°	5736.3	5426.3	4611.0	3719.8	2830.3	2033.4	1474.1	1157.4	1009.1	960.3	950.2
15°	5672.3	5286.5	4280.8	3194.1	2107.5	1317.4	950.2	839.0	798.5	790.1	788.4
17.5°	5638.6	5156.8	3928.7	2592.7	1470.7	894.6	761.5	731.2	719.4	710.9	707.6
20°	5610.0	5043.9	3591.7	2030.0	1005.8	732.8	682.3	653.7	633.4	625.0	620.0
22.5°	5589.8	4927.7	3243.0	1571.8	769.9	650.3	604.8	567.7	539.1	529.0	522.3
25°	5559.4	4799.6	2890.9	1149.0	648.6	577.8	525.6	481.8	444.8	426.2	422.9
27.5°	5515.6	4654.8	2505.1	850.8	579.5	513.8	449.8	395.9	358.8	338.6	340.3
30°	5444.9	4503.1	2119.3	675.6	523.9	448.1	379.1	326.8	291.4	276.3	274.6
32.5°	5360.6	4319.5	1765.5	579.5	473.4	389.2	316.7	271.2	244.3	232.5	230.8
35°	5281.5	4134.2	1405.0	520.6	421.2	335.3	266.2	227.4	207.2	197.1	198.8
37.5°	5237.7	3969.1	1095.0	473.4	379.1	288.1	229.1	195.4	176.9	168.5	166.8
40°	5266.3	3834.3	871.0	431.3	331.9	247.6	197.1	168.5	149.9	138.1	138.1
42.5°	5401.1	3775.4	702.5	390.8	288.1	214.0	171.8	144.9	124.7	112.9	114.6
45°	5812.1	3837.7	588.0	353.8	247.6	185.3	148.3	119.6	101.1	92.7	91.0
47.5°	6494.4	4071.9	508.8	315.0	212.3	158.4	124.7	99.4	80.9	74.1	72.4
50°	7687.2	4555.4	449.8	276.3	180.3	134.8	102.8	79.2	64.0	57.3	57.3
52.5°	9328.1	5610.0	407.7	232.5	151.6	114.6	84.2	64.0	50.5	45.5	43.8
55°	11043.1	6721.9	385.8	195.4	126.4	94.3	67.4	50.5	38.7	33.7	32.0
57.5°	12692.4	7594.5	360.5	158.4	101.1	72.4	52.2	38.7	27.0	23.6	21.9
60°	14274.3	8300.4	306.6	126.4	79.2	52.2	38.7	27.0	18.5	15.2	15.2
62.5°	15689.4	8711.5	240.9	101.1	60.6	37.1	25.3	20.2	13.5	10.1	10.1
65°	15854.5	8177.4	181.9	77.5	43.8	23.6	15.2	15.2	10.1	6.7	6.7
66°	15522.6	7724.2	160.0	70.8	38.7	20.2	13.5	11.8	8.4	5.1	5.1
67.5°	14781.4	6951.0	138.1	60.6	32.0	15.2	10.1	10.1	6.7	3.4	3.4
70°	12771.5	5677.4	109.5	45.5	23.6	11.8	6.7	6.7	5.1	3.4	3.4
72.5°	9734.1	4238.7	89.3	33.7	16.8	8.4	5.1	5.1	5.1	3.4	3.4
75°	5871.1	2282.7	69.1	25.3	15.2	6.7	3.4	5.1	6.7	5.1	3.4
77.5°	2163.1	776.6	53.9	20.2	11.8	6.7	3.4	3.4	6.7	5.1	5.1
80°	530.7	202.2	38.7	16.8	11.8	6.7	3.4	3.4	6.7	6.7	6.7
82.5°	246.0	85.9	27.0	15.2	11.8	6.7	3.4	3.4	5.1	6.7	6.7
85°	141.5	40.4	21.9	16.8	11.8	6.7	3.4	3.4	5.1	6.7	6.7
87.5°	57.3	20.2	20.2	16.8	13.5	8.4	3.4	3.4	3.4	5.1	5.1
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)