

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: P454852

Luminaire Tested: **GALN-SA6A-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22490 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

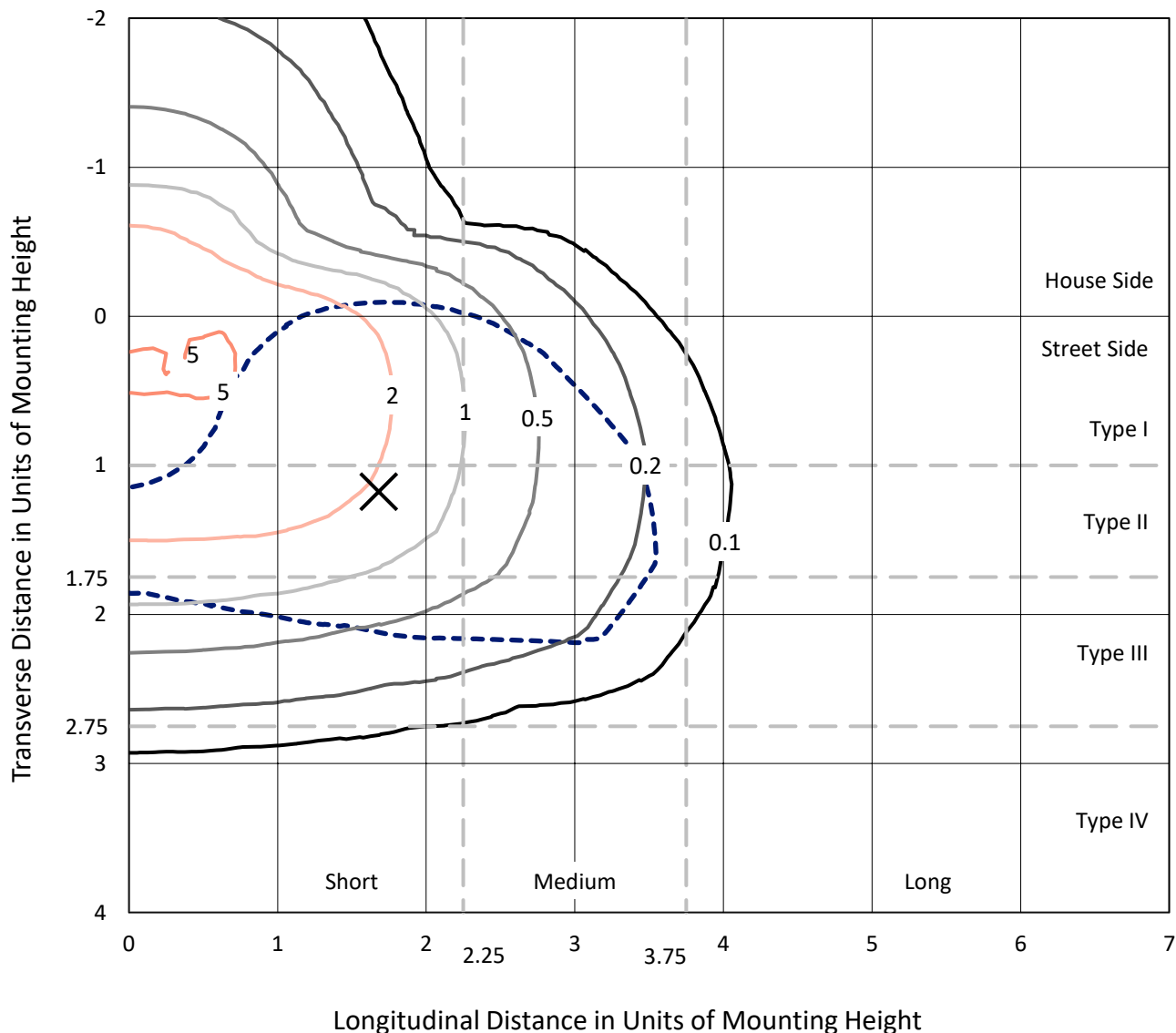
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

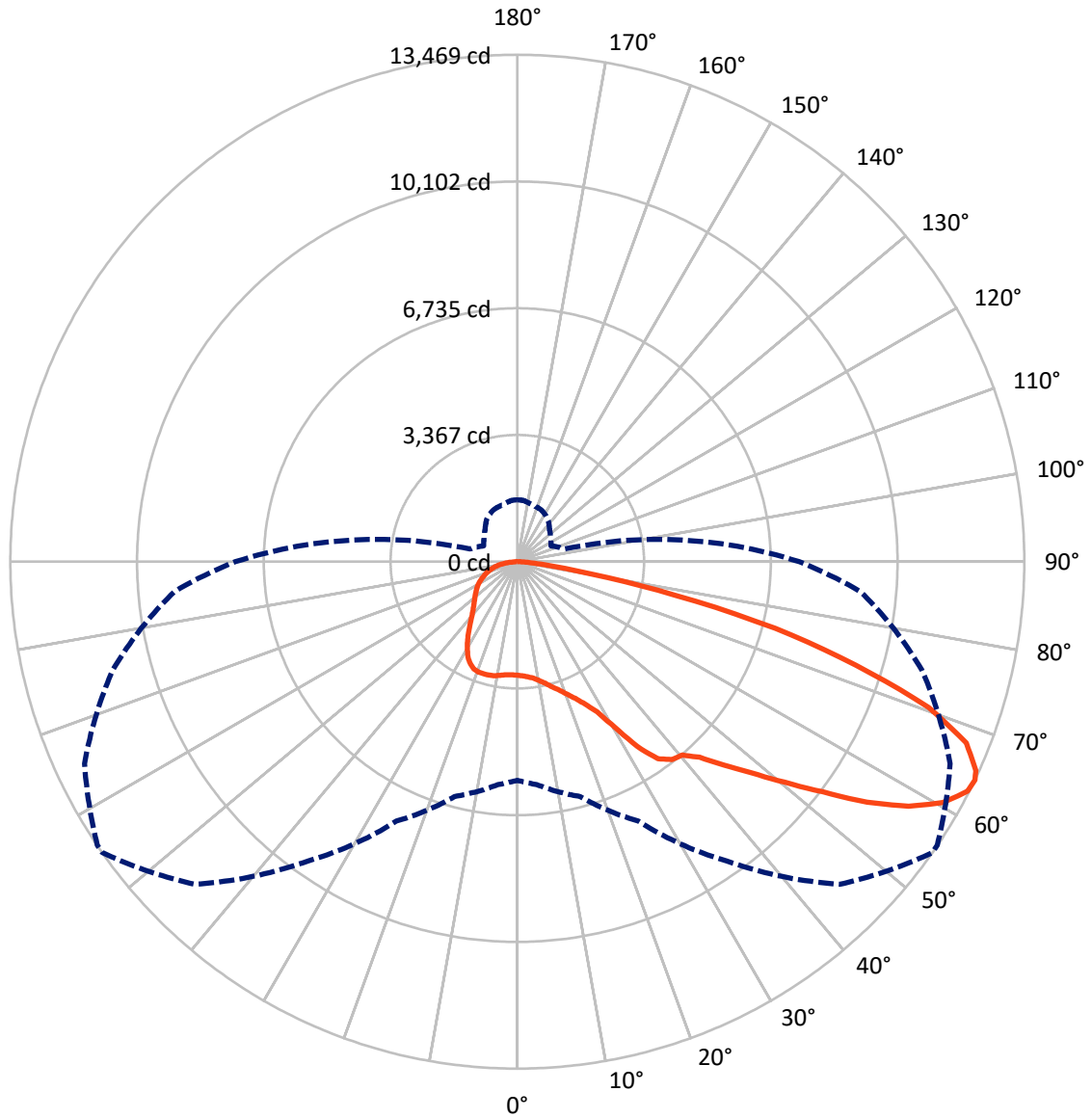
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical



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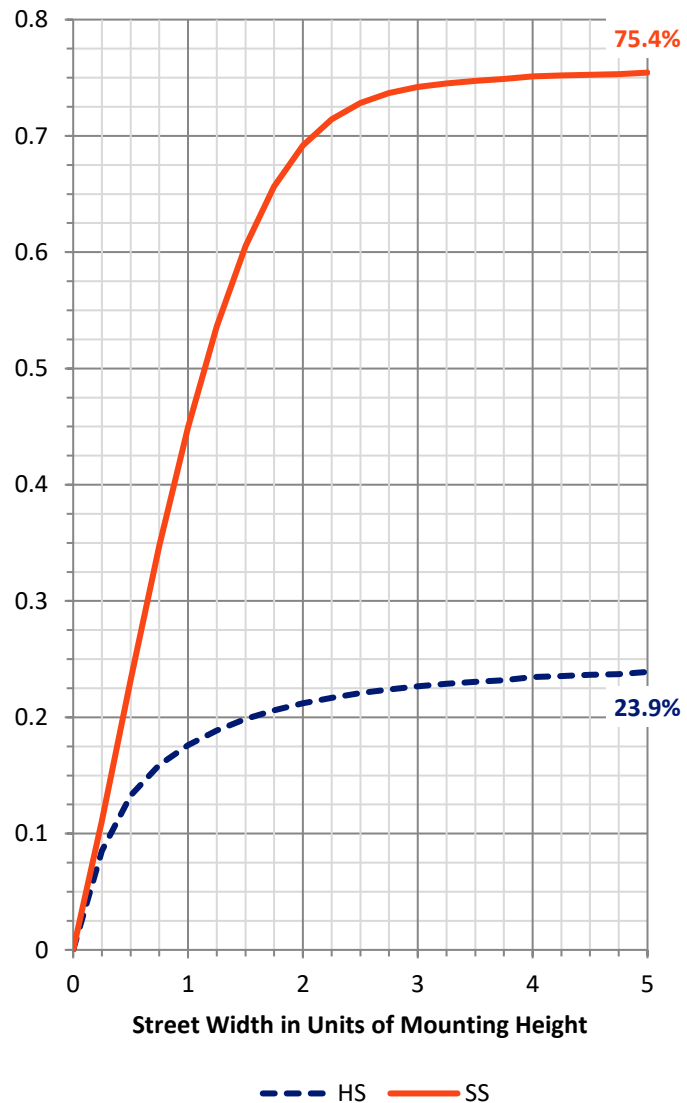
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5463.3	0.0	5463.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	17026.7	0.0	17026.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	22490.0	0.0	22490.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.5	1.3
10°-20°	926.1	4.1
20°-30°	1648.8	7.3
30°-40°	2536.8	11.3
40°-50°	3596.2	16.0
50°-60°	5205.4	23.1
60°-70°	5387.0	24.0
70°-80°	2522.7	11.2
80°-90°	373.5	1.7
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°	22490.0	100.0
0°-180°	22490.0	100.0



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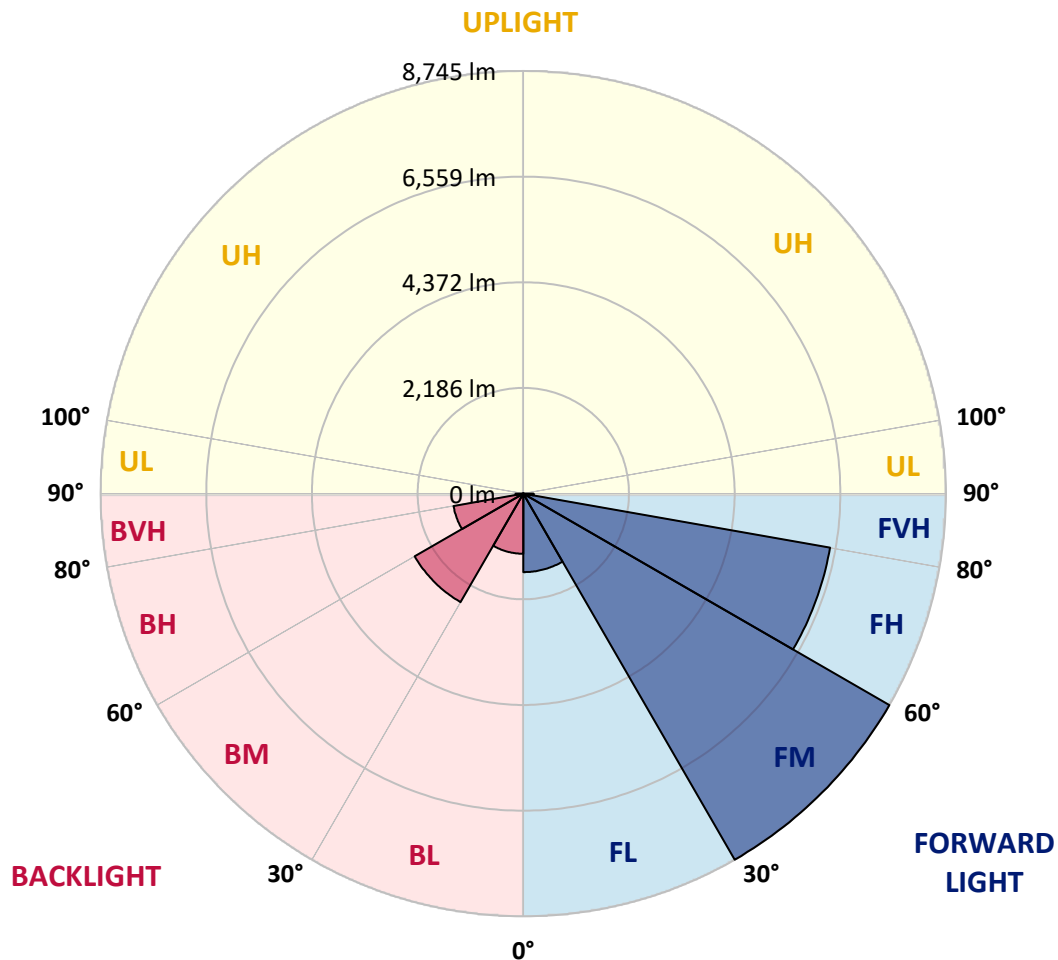
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1624.1	7.2			
FM	(30°-60°)	8744.7	38.9			
FH	(60°-80°)	6444.0	28.7			G3/7500
FVH	(80°-90°)	213.8	1.0			G2/225
BL	(0°-30°)	1244.3	5.5	B3/2500		
BM	(30°-60°)	2593.6	11.5	B3/5000		
BH	(60°-80°)	1465.7	6.5	B3/2500		G3/2500
BVH	(80°-90°)	159.6	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3017.5	3017.5	3017.5	3017.5	3017.5	3017.5	3017.5	3017.5	3017.5	3017.5	3017.5
2.5°	3051.3	3050.1	3053.8	3050.1	3052.6	3043.8	3040.0	3042.6	3038.8	3032.5	3021.2
5°	3088.9	3087.7	3088.9	3083.9	3086.4	3081.4	3072.6	3075.1	3068.9	3055.1	3038.8
7.5°	3152.9	3147.9	3147.9	3146.6	3141.6	3134.1	3127.8	3125.3	3119.0	3101.5	3076.4
10°	3235.6	3235.6	3236.9	3226.8	3233.1	3219.3	3213.0	3211.8	3190.5	3167.9	3132.8
12.5°	3344.7	3350.9	3347.2	3342.2	3339.7	3334.6	3313.3	3318.3	3294.5	3255.7	3213.0
15°	3480.1	3490.1	3483.8	3481.3	3475.1	3456.2	3447.5	3443.7	3412.4	3356.0	3299.5
17.5°	3659.3	3646.8	3641.8	3635.5	3609.2	3595.4	3580.4	3577.9	3550.3	3483.8	3396.1
20°	3816.0	3833.6	3823.6	3817.3	3791.0	3764.6	3753.4	3749.6	3725.8	3653.1	3512.7
22.5°	4002.8	4006.6	4010.4	3995.3	3982.8	3962.7	3942.7	3936.4	3927.6	3852.4	3680.6
25°	4202.2	4217.2	4204.7	4189.6	4174.6	4173.3	4192.1	4189.6	4185.9	4113.1	3903.8
27.5°	4526.8	4540.6	4544.4	4528.1	4470.4	4475.4	4518.1	4531.9	4589.5	4469.2	4190.9
30°	4709.9	4723.7	4755.0	4816.4	4907.9	4988.2	5091.0	5122.3	5177.5	4950.6	4531.9
32.5°	4822.7	4827.7	4884.1	4998.2	5272.8	5572.4	5851.9	5863.2	5898.3	5579.9	4844.0
35°	5000.7	5004.5	5049.6	5175.0	5497.2	5996.1	6428.6	6442.4	6413.6	5775.5	4989.4
37.5°	5220.1	5230.1	5259.0	5363.0	5747.9	6350.9	6668.0	6658.0	6402.3	5930.9	5246.4
40°	5539.8	5539.8	5505.9	5646.3	6012.4	6554.0	6752.0	6734.5	6666.8	6381.0	5637.6
42.5°	5821.8	5816.8	5897.1	5992.3	6343.4	6867.4	7104.3	7133.1	7244.7	6946.3	6082.6
45°	6189.2	6211.7	6256.9	6429.9	6906.2	7402.7	7708.5	7736.1	7894.1	7612.0	6602.9
47.5°	6560.2	6567.7	6709.4	6940.1	7603.2	8128.5	8379.2	8424.4	8568.5	8390.5	7163.2
50°	6823.5	6894.9	7121.9	7485.4	8321.6	9013.6	9209.1	9263.0	9517.5	9238.0	7816.4
52.5°	7101.8	7172.0	7449.0	8003.2	9146.5	9918.7	10159.4	10195.7	10460.3	10095.5	8484.5
55°	7340.0	7405.2	7719.8	8462.0	9803.4	10842.6	11278.9	11236.3	11362.9	10756.1	8999.8
57.5°	7378.8	7431.5	7827.6	8755.3	10297.3	11634.9	12260.5	12285.5	12138.9	11250.0	9424.8
60°	7078.0	7185.8	7640.9	8724.0	10519.2	12186.5	12992.6	13010.1	12593.9	11503.3	9594.0
62.5°	6545.2	6533.9	7084.2	8220.0	10208.3	12311.9	13423.8	13405.0	12771.9	11381.7	9429.8
64°	5809.3	5944.7	6458.7	7600.7	9706.8	12118.8	13469.0	13458.9	12686.7	11128.4	9150.2
65°	5360.5	5353.0	5860.7	7094.3	9207.9	11828.0	13388.7	13374.9	12508.7	10901.5	8933.3
67.5°	3869.9	3887.5	4388.9	5474.6	7485.4	10690.9	12866.0	12814.6	11806.7	10149.4	8108.5
70°	2344.3	2354.3	2747.9	3631.8	5373.0	8642.5	11597.3	11599.8	10732.3	9026.1	6901.2
72.5°	1234.8	1261.1	1419.1	2062.2	3263.2	6063.8	9408.5	9631.6	9214.2	7703.5	5452.0
75°	687.0	690.7	802.3	1016.7	1664.8	3393.6	7071.7	7135.6	7294.9	6200.4	4031.7
77.5°	524.0	531.5	566.6	656.9	906.4	1573.3	4279.9	4600.8	5141.1	4371.4	2300.4
80°	425.0	432.5	462.6	516.5	603.0	745.9	1988.3	2161.3	2751.7	1940.6	897.6
82.5°	331.0	325.9	364.8	399.9	438.8	441.3	816.1	902.6	1120.7	834.9	388.6
85°	245.7	245.7	277.1	269.5	283.3	258.2	359.8	397.4	448.8	354.8	180.5
87.5°	97.8	107.8	181.8	163.0	126.6	101.5	132.9	140.4	155.4	139.2	75.2
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°	3017.5	3017.5	3017.5	3017.5	3017.5	3017.5	3017.5	3017.5	3017.5	3017.5	3017.5
2.5°	3022.5	3026.3	3017.5	3011.2	3008.7	3004.9	3001.2	3002.4	3007.5	3012.5	3011.2
5°	3037.5	3038.8	3023.7	3016.2	3011.2	3006.2	3006.2	3010.0	3020.0	3027.5	3027.5
7.5°	3075.1	3075.1	3053.8	3040.0	3032.5	3023.7	3021.2	3022.5	3030.0	3040.0	3041.3
10°	3134.1	3129.1	3101.5	3080.2	3066.4	3045.1	3026.3	3016.2	3020.0	3026.3	3026.3
12.5°	3205.5	3191.7	3156.6	3127.8	3094.0	3053.8	3015.0	2994.9	2993.7	2999.9	2997.4
15°	3282.0	3267.0	3218.1	3165.4	3106.5	3047.6	3001.2	2972.3	2949.8	2943.5	2957.3
17.5°	3371.0	3339.7	3272.0	3199.3	3111.5	3035.0	2962.3	2903.4	2863.3	2852.0	2855.8
20°	3478.8	3437.4	3345.9	3231.8	3107.7	2989.9	2877.1	2798.1	2732.9	2712.8	2715.4
22.5°	3628.0	3556.5	3422.4	3248.1	3076.4	2904.7	2747.9	2645.2	2566.2	2534.8	2553.6
25°	3797.2	3719.5	3495.1	3244.4	2994.9	2768.0	2595.0	2460.9	2389.4	2343.0	2353.1
27.5°	4030.4	3892.5	3572.8	3210.5	2878.3	2601.3	2400.7	2274.1	2208.9	2185.1	2196.4
30°	4328.8	4116.9	3656.8	3119.0	2694.0	2390.7	2205.1	2122.4	2083.5	2053.4	2063.5
32.5°	4544.4	4274.9	3675.6	2964.8	2494.7	2198.9	2072.2	2010.8	1968.2	1939.4	1945.6
35°	4698.6	4409.0	3666.9	2775.5	2286.6	2040.9	1966.9	1916.8	1847.8	1785.2	1773.9
37.5°	4905.4	4577.0	3602.9	2568.7	2081.0	1934.3	1881.7	1788.9	1689.9	1605.9	1602.1
40°	5222.6	4773.8	3466.3	2325.5	1905.5	1855.4	1791.4	1671.1	1564.5	1496.8	1491.8
42.5°	5549.8	4955.6	3280.7	2069.7	1761.3	1772.6	1694.9	1575.8	1510.6	1466.7	1461.7
45°	5949.7	5152.4	3080.2	1847.8	1654.8	1694.9	1610.9	1542.0	1503.1	1474.3	1466.7
47.5°	6382.2	5354.2	2854.5	1648.5	1564.5	1623.4	1575.8	1544.5	1523.2	1503.1	1494.3
50°	6848.6	5579.9	2642.6	1488.1	1483.0	1549.5	1572.0	1560.8	1548.2	1542.0	1534.4
52.5°	7360.0	5810.6	2464.6	1375.2	1411.6	1496.8	1573.3	1582.1	1582.1	1578.3	1573.3
55°	7706.0	5971.0	2284.1	1283.7	1338.9	1454.2	1570.8	1604.6	1617.2	1612.2	1607.1
57.5°	7961.8	6058.8	2057.2	1204.7	1277.4	1412.8	1557.0	1607.1	1619.7	1626.0	1623.4
60°	8014.4	5977.3	1760.1	1122.0	1211.0	1352.7	1506.9	1569.5	1585.8	1624.7	1628.5
62.5°	7777.5	5726.6	1464.2	1040.5	1129.5	1261.1	1439.2	1526.9	1559.5	1619.7	1626.0
64°	7486.7	5445.8	1300.0	989.1	1076.9	1209.7	1405.3	1515.6	1558.3	1638.5	1643.5
65°	7273.5	5241.4	1197.2	956.5	1043.0	1175.9	1386.5	1519.4	1569.5	1667.3	1674.8
67.5°	6488.8	4538.1	990.4	880.0	962.8	1118.2	1390.3	1550.7	1567.0	1678.6	1677.4
70°	5369.3	3613.0	829.9	809.8	885.1	1071.9	1375.2	1500.6	1501.8	1575.8	1558.3
72.5°	4020.4	2670.2	719.6	737.1	798.6	961.5	1298.8	1432.9	1411.6	1421.6	1404.1
75°	2761.7	1766.4	619.3	659.4	708.3	850.0	1190.9	1301.3	1267.4	1254.9	1242.3
77.5°	1474.3	976.6	515.2	582.9	615.5	734.6	1039.3	1145.8	1110.7	1061.8	1045.5
80°	596.7	460.1	415.0	482.6	501.5	591.7	865.0	931.4	905.1	819.9	792.3
82.5°	299.6	275.8	325.9	379.8	381.1	422.5	643.1	705.8	646.9	542.8	519.0
85°	156.7	161.7	224.4	267.0	235.7	228.2	386.1	427.5	392.4	341.0	307.1
87.5°	56.4	65.2	117.8	116.6	82.7	43.9	85.2	41.4	22.6	13.8	17.6
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)