

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: P531230

Luminaire Tested: **GALN-SA6C-730-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-730-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31847 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

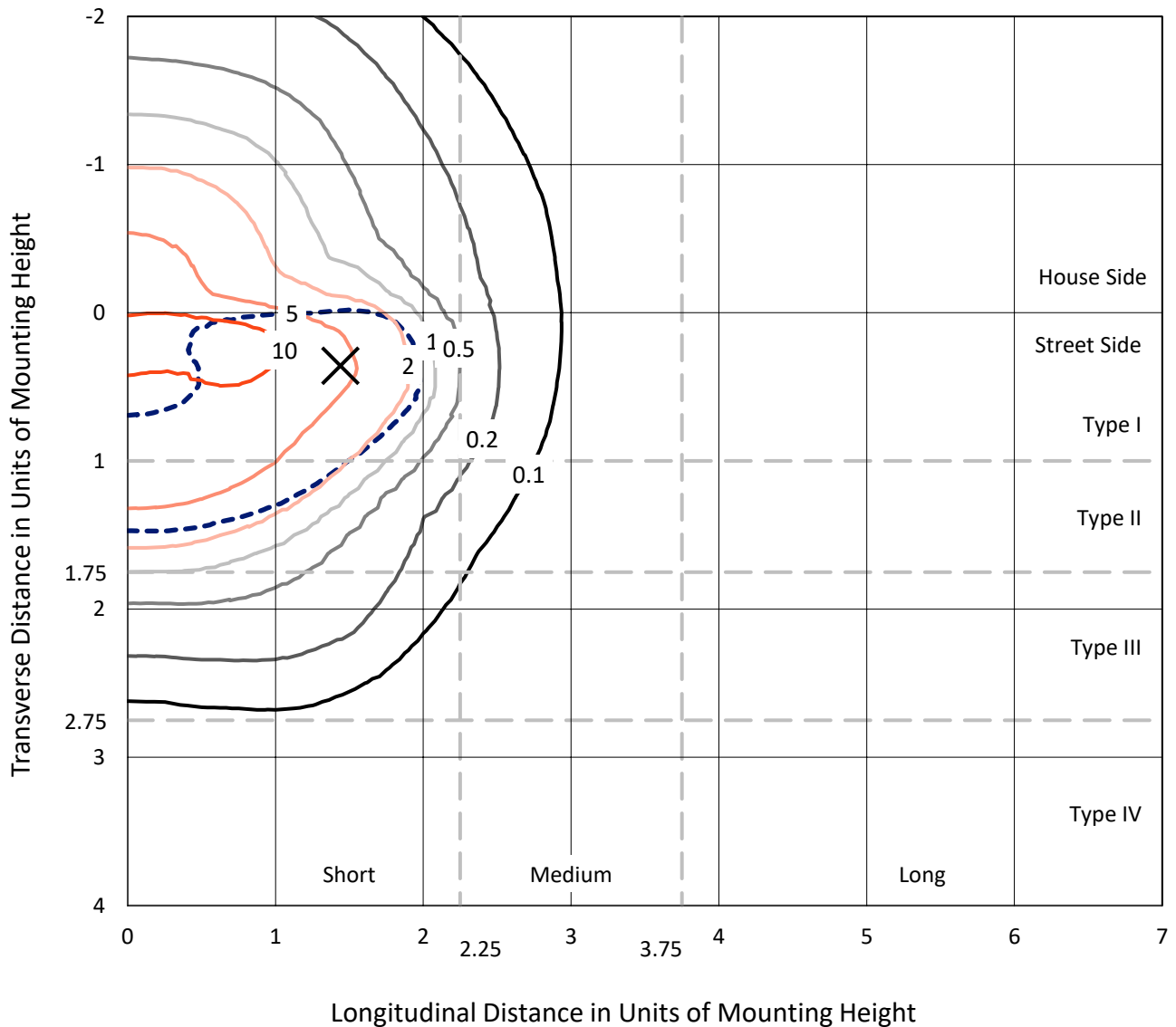
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

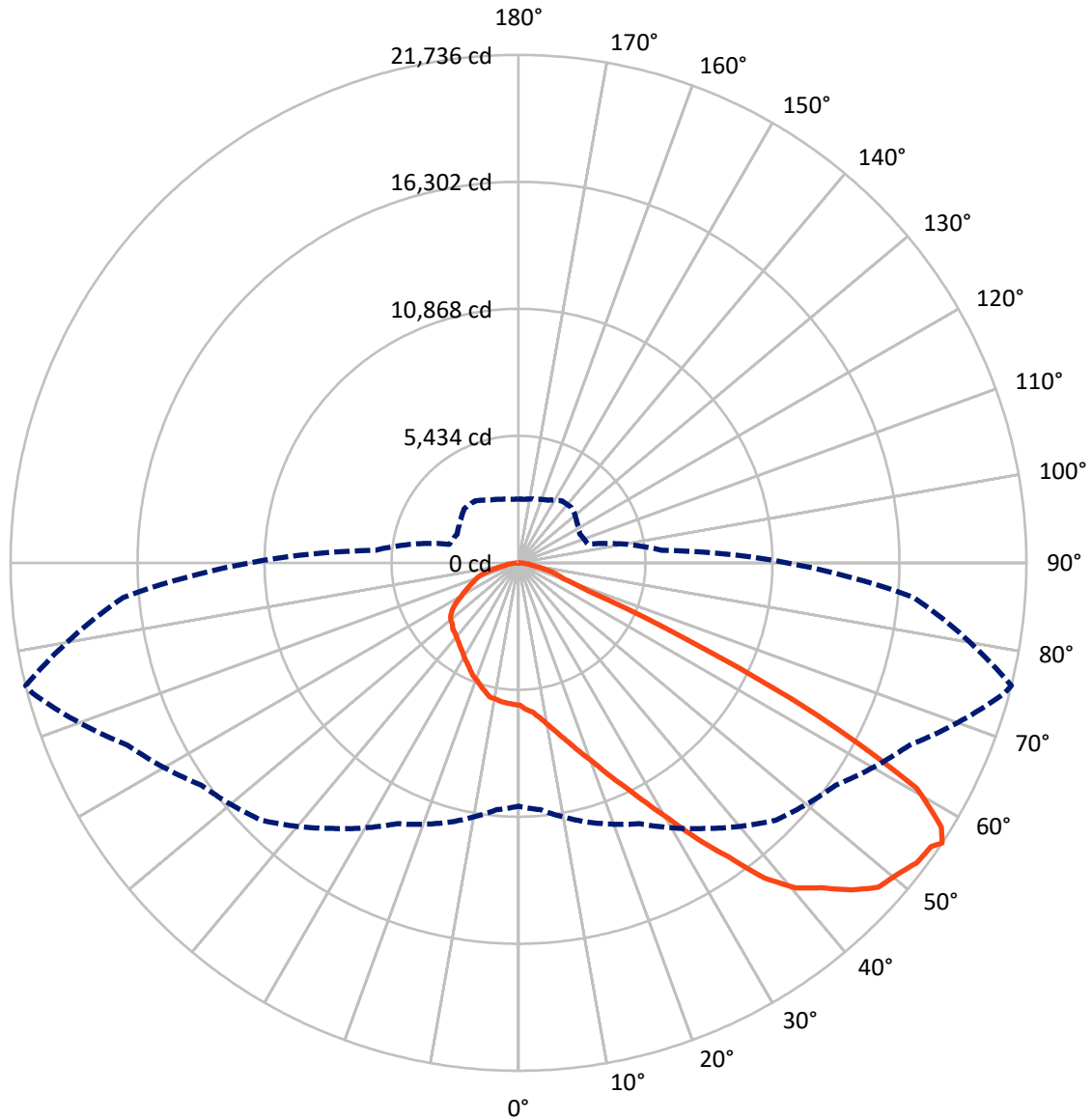
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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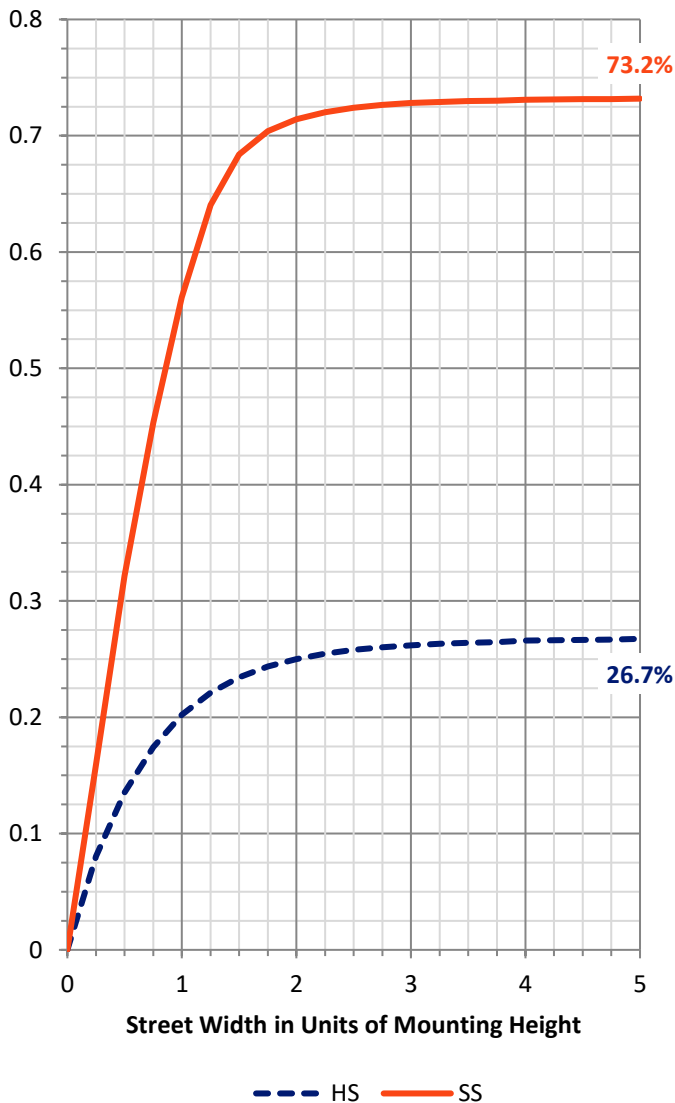
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8562.7	0.0	8562.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	23284.3	0.0	23284.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	31847.0	0.0	31847.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.3	1.9
10°-20°	1898.3	6.0
20°-30°	3319.8	10.4
30°-40°	5197.9	16.3
40°-50°	7561.5	23.7
50°-60°	8310.5	26.1
60°-70°	3709.5	11.6
70°-80°	1071.4	3.4
80°-90°	173.8	0.5
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°	31847.0	100.0
0°-180°	31847.0	100.0



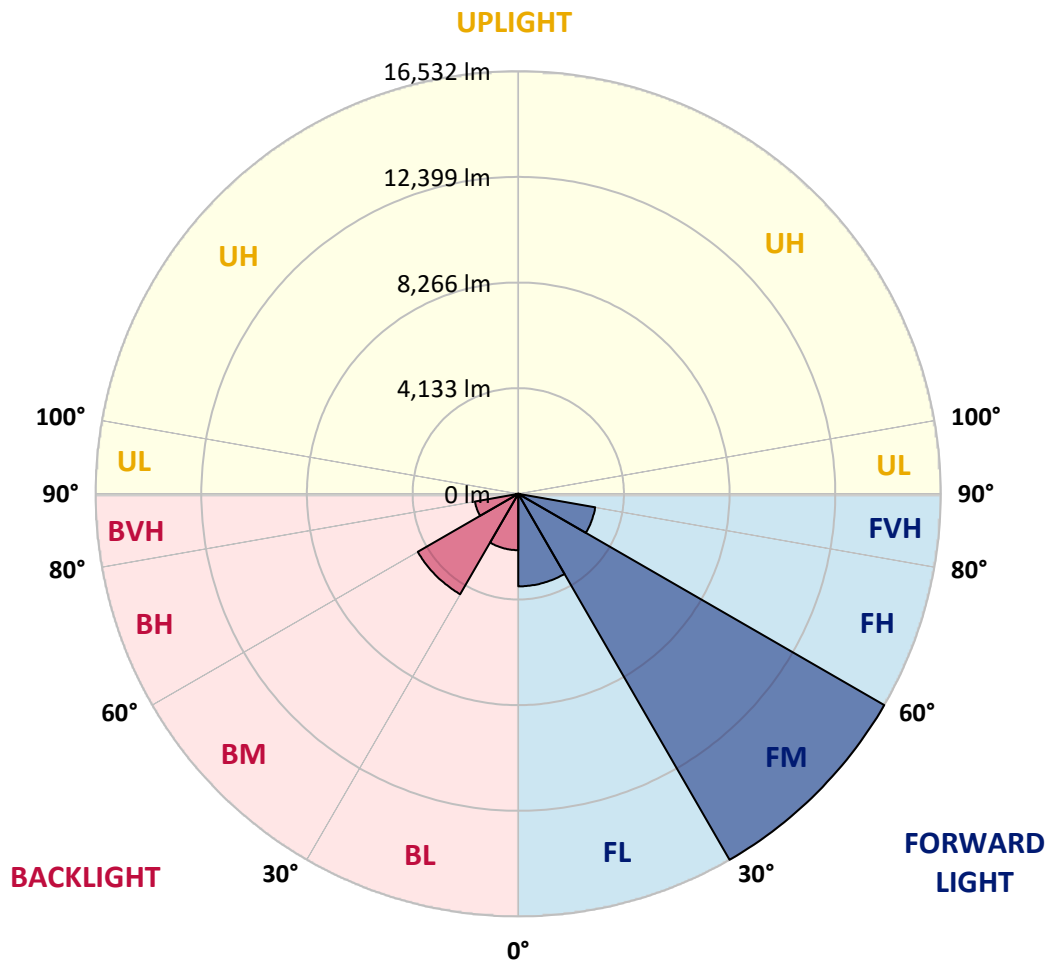
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3619.1	11.4			
FM (30°-60°)	16532.4	51.9			
FH (60°-80°)	3058.1	9.6			G2/5000
FVH (80°-90°)	74.8	0.2			G1/100
BL (0°-30°)	2203.3	6.9	B3/2500		
BM (30°-60°)	4537.5	14.2	B3/5000		
BH (60°-80°)	1722.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	99.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6093.5	6093.5	6093.5	6093.5	6093.5	6093.5	6093.5	6093.5	6093.5	6093.5	6093.5
2.5°	6712.8	6605.4	6597.2	6568.3	6584.8	6510.5	6432.0	6328.8	6221.5	6287.5	6130.7
5°	7183.4	7038.9	7096.7	6997.6	7010.0	6910.9	6749.9	6630.2	6498.1	6419.7	6308.2
7.5°	7348.5	7360.9	7402.2	7385.7	7303.1	7303.1	7195.8	6985.2	6754.1	6708.6	6522.9
10°	7571.5	7575.6	7530.2	7542.6	7658.2	7604.5	7509.6	7418.7	7121.5	7067.8	6737.5
12.5°	7649.9	7575.6	7649.9	7716.0	7852.2	7926.5	7905.9	7839.8	7521.9	7484.8	7001.8
15°	7662.3	7616.9	7678.8	7827.4	7947.2	8260.9	8417.8	8372.4	7951.3	7955.4	7299.0
17.5°	7604.5	7666.4	7691.2	7819.2	8095.8	8388.9	8843.0	8905.0	8558.2	8504.5	7674.7
20°	7682.9	7637.5	7670.6	7786.2	8153.6	8611.8	9206.3	9615.0	9127.9	9090.7	8062.8
22.5°	7984.3	7922.4	7914.1	7988.4	8252.7	8727.4	9590.3	10325.1	9821.5	9842.1	8545.8
25°	8219.6	8252.7	8223.8	8219.6	8384.8	8900.8	10098.1	11171.4	10762.7	10643.0	9115.5
27.5°	8624.2	8702.7	8644.9	8723.3	8686.1	9160.9	10461.4	12108.6	11778.3	11617.3	9631.6
30°	9185.7	9227.0	9173.3	9173.3	9061.8	9524.2	10791.6	13087.0	12950.8	12732.0	10238.4
32.5°	9924.7	9986.6	9879.3	9817.3	9800.8	10065.0	11386.1	14053.1	14284.3	14098.5	11043.5
35°	10903.1	10865.9	10738.0	10680.2	10457.2	10894.8	12269.6	15163.6	15770.5	15440.2	12017.8
37.5°	11765.9	11708.1	11699.9	11377.9	11431.5	11790.7	13021.0	16005.8	17211.3	17116.3	13045.7
40°	12571.0	12624.6	12711.3	12529.7	12447.1	12843.4	13896.2	16649.8	18330.1	18292.9	13838.4
42.5°	13433.8	13384.3	13537.0	13384.3	13260.4	13821.9	14845.7	17095.7	19312.6	19007.1	14668.2
45°	14684.7	14527.8	14581.5	14593.9	14503.1	14709.5	15237.9	17417.7	20002.1	19969.1	15275.1
47.5°	15729.2	15733.3	15642.5	15572.3	15295.7	15502.1	15675.5	17620.0	20794.7	20741.1	15510.4
50°	16117.3	16063.6	16327.8	16480.6	16497.1	16076.0	16018.2	17731.5	21211.7	20976.4	15745.7
52.5°	14721.9	14771.4	15188.4	16096.6	16620.9	16666.3	16418.6	17962.7	21381.0	21331.4	15935.6
55°	11848.5	12087.9	12773.3	13821.9	15064.5	16431.0	16852.1	18202.1	21471.8	21430.5	16777.8
56°	10415.9	10601.7	11493.5	12315.0	13875.5	15576.4	16579.6	18458.1	21542.0	21736.0	16976.0
57.5°	8384.8	8599.5	9239.4	10172.4	12013.6	13949.9	15828.3	18144.3	21269.5	21343.8	17120.5
60°	5243.1	5263.7	6031.6	6646.7	7943.0	9833.8	12079.7	15787.0	19684.2	19576.9	15378.3
62.5°	3439.0	3443.1	4140.8	4644.4	5234.8	5668.3	7109.1	10469.6	14523.7	14333.8	10948.5
65°	2415.1	2468.8	3009.6	3682.5	3922.0	3694.9	3649.5	5519.7	8112.3	7839.8	5883.0
67.5°	1767.0	1771.1	2250.0	2972.4	3319.2	2811.4	2283.0	2695.8	3211.9	3203.6	2724.7
70°	1168.3	1217.9	1585.3	2221.1	2617.4	2258.2	1866.0	1928.0	2043.6	2043.6	2027.0
72.5°	681.2	726.6	970.2	1407.8	1469.7	1411.9	1478.0	1651.4	1725.7	1721.5	1700.9
75°	388.1	408.7	462.4	586.2	730.7	862.8	1085.8	1250.9	1325.2	1370.6	1317.0
77.5°	227.1	239.4	272.5	334.4	379.8	466.5	590.4	706.0	805.0	792.7	800.9
80°	119.7	119.7	152.8	198.2	264.2	330.3	392.2	458.3	511.9	524.3	536.7
82.5°	70.2	74.3	99.1	144.5	189.9	235.3	301.4	346.8	396.3	400.5	408.7
85°	37.2	41.3	61.9	95.0	128.0	144.5	148.6	140.4	152.8	144.5	165.1
87.5°	12.4	12.4	20.6	16.5	16.5	20.6	24.8	24.8	33.0	33.0	33.0
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°	6093.5	6093.5	6093.5	6093.5	6093.5	6093.5	6093.5	6093.5	6093.5	6093.5	6093.5
2.5°	6126.5	6126.5	6056.4	5924.3	5903.6	5849.9	5800.4	5796.3	5759.1	5726.1	5709.6
5°	6242.1	6114.2	6010.9	5891.2	5750.9	5684.8	5610.5	5527.9	5494.9	5527.9	5523.8
7.5°	6374.2	6266.9	5957.3	5734.3	5573.3	5507.3	5424.7	5338.0	5346.3	5346.3	5288.5
10°	6502.2	6357.7	5862.3	5577.5	5342.1	5292.6	5247.2	5280.2	5321.5	5329.8	5292.6
12.5°	6716.9	6390.8	5816.9	5420.6	5272.0	5164.6	5193.5	5284.3	5371.0	5346.3	5375.2
15°	6877.9	6419.7	5610.5	5259.6	5073.8	5123.3	5226.6	5288.5	5433.0	5416.5	5445.4
17.5°	7034.8	6436.2	5408.2	5044.9	4966.5	5102.7	5181.1	5358.7	5404.1	5503.2	5540.3
20°	7356.8	6469.2	5201.8	4912.8	4888.0	5044.9	5181.1	5263.7	5362.8	5449.5	5449.5
22.5°	7521.9	6452.7	5065.5	4739.4	4817.8	4916.9	5040.8	5181.1	5181.1	5263.7	5267.8
25°	7728.4	6386.6	4850.9	4656.8	4714.6	4809.6	4949.9	4900.4	4954.1	4954.1	5020.1
27.5°	7963.7	6246.3	4665.1	4508.2	4623.8	4727.0	4747.7	4714.6	4652.7	4644.4	4619.7
30°	8153.6	6072.9	4528.9	4458.7	4553.6	4611.4	4545.4	4475.2	4367.8	4359.6	4301.8
32.5°	8413.7	5858.2	4359.6	4334.8	4442.2	4446.3	4425.6	4318.3	4161.4	4095.4	4029.3
35°	8851.3	5734.3	4231.6	4268.8	4301.8	4289.4	4252.2	4136.7	3979.8	3950.9	3926.1
37.5°	9173.3	5643.5	4099.5	4144.9	4173.8	4190.3	4078.9	3950.9	3955.0	3897.2	3880.7
40°	9536.6	5585.7	3992.2	4012.8	4016.9	4070.6	3934.4	3872.4	3901.3	3864.2	3889.0
42.5°	10003.1	5602.2	3880.7	3864.2	3942.6	3922.0	3855.9	3773.4	3789.9	3678.4	3694.9
45°	10250.8	5713.7	3814.6	3740.3	3827.0	3822.9	3736.2	3657.8	3558.7	3344.0	3352.3
47.5°	10415.9	5742.6	3657.8	3608.2	3699.0	3752.7	3653.6	3472.0	3331.6	3178.9	3141.7
50°	10585.2	5796.3	3583.4	3480.2	3517.4	3645.4	3521.5	3348.1	3211.9	3075.7	3096.3
52.5°	10733.8	5899.5	3439.0	3286.2	3352.3	3492.6	3426.6	3216.0	3067.4	2955.9	2922.9
55°	11394.4	6130.7	3195.4	2997.2	3154.1	3331.6	3294.5	3038.5	2877.5	2819.7	2811.4
56°	11497.6	6138.9	3067.4	2898.1	3042.6	3277.9	3232.5	2960.1	2815.6	2724.7	2728.9
57.5°	11514.1	6039.8	2885.7	2807.3	2931.2	3199.5	3141.7	2898.1	2700.0	2617.4	2592.6
60°	10131.1	4714.6	2658.7	2609.1	2753.6	2960.1	2939.4	2728.9	2505.9	2411.0	2456.4
62.5°	6906.8	3455.5	2481.2	2472.9	2547.2	2749.5	2695.8	2505.9	2320.2	2258.2	2229.3
65°	4021.1	2621.5	2307.8	2274.7	2336.7	2444.0	2481.2	2283.0	2089.0	2047.7	2035.3
67.5°	2373.8	2167.4	2084.8	2031.2	2010.5	2076.6	2105.5	1989.9	1795.9	1738.1	1787.6
70°	1985.8	1928.0	1932.1	1841.3	1791.7	1746.3	1721.5	1618.3	1457.3	1383.0	1362.4
72.5°	1713.3	1688.5	1672.0	1589.4	1544.0	1440.8	1333.5	1230.3	1110.5	1048.6	1052.7
75°	1308.7	1300.4	1308.7	1267.4	1189.0	1106.4	1007.3	875.2	784.4	706.0	722.5
77.5°	780.3	805.0	817.4	800.9	767.9	693.6	631.6	544.9	458.3	396.3	388.1
80°	536.7	557.3	578.0	557.3	524.3	470.6	404.6	338.5	276.6	243.6	235.3
82.5°	408.7	429.4	441.7	421.1	379.8	322.0	276.6	231.2	181.6	148.6	140.4
85°	148.6	169.3	165.1	198.2	214.7	206.4	177.5	136.2	103.2	74.3	70.2
87.5°	41.3	37.2	41.3	41.3	41.3	37.2	33.0	33.0	33.0	20.6	16.5
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)