

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: P530048

Luminaire Tested: **GALN-SA5B-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530048  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-730-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23418 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

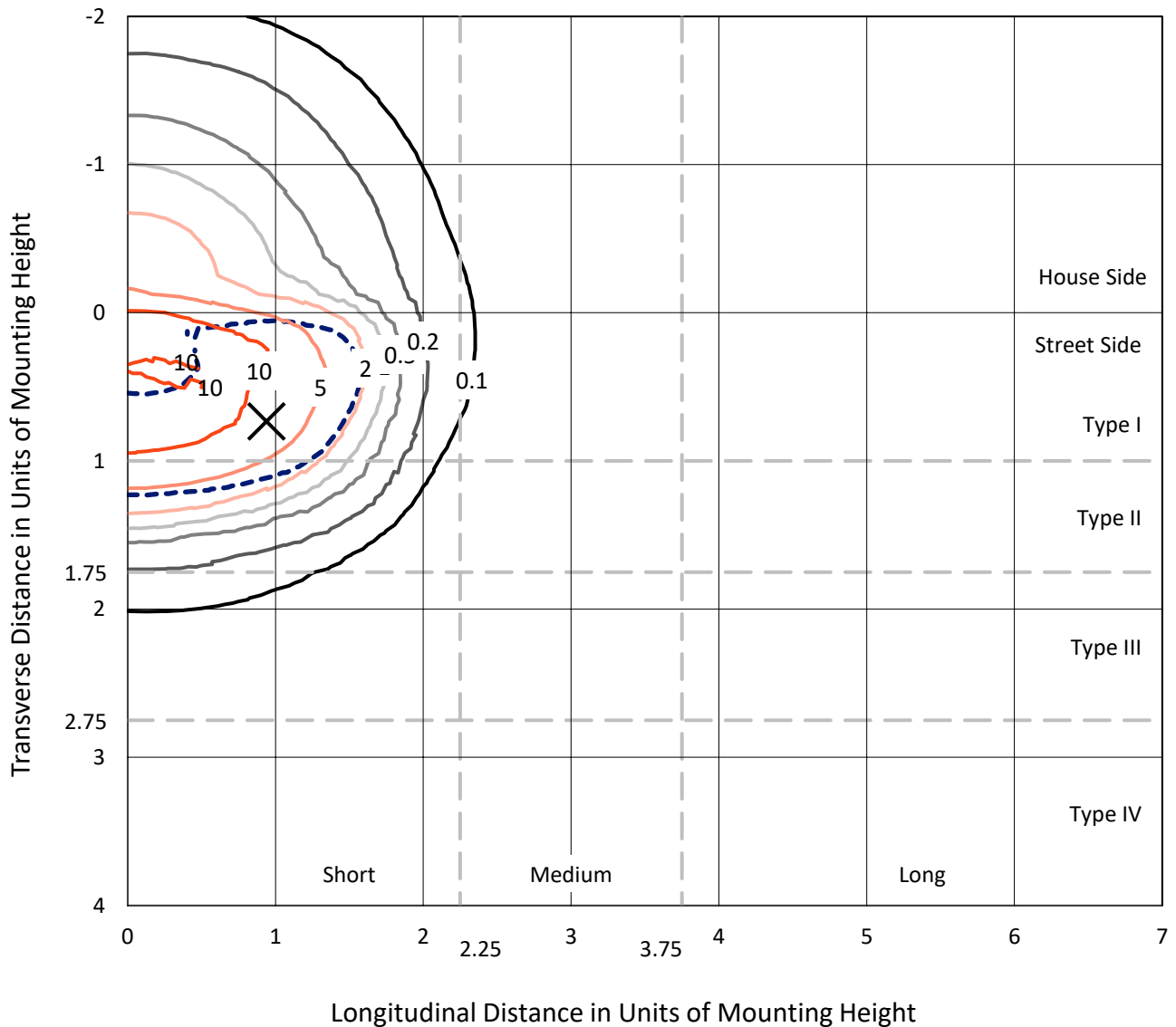
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

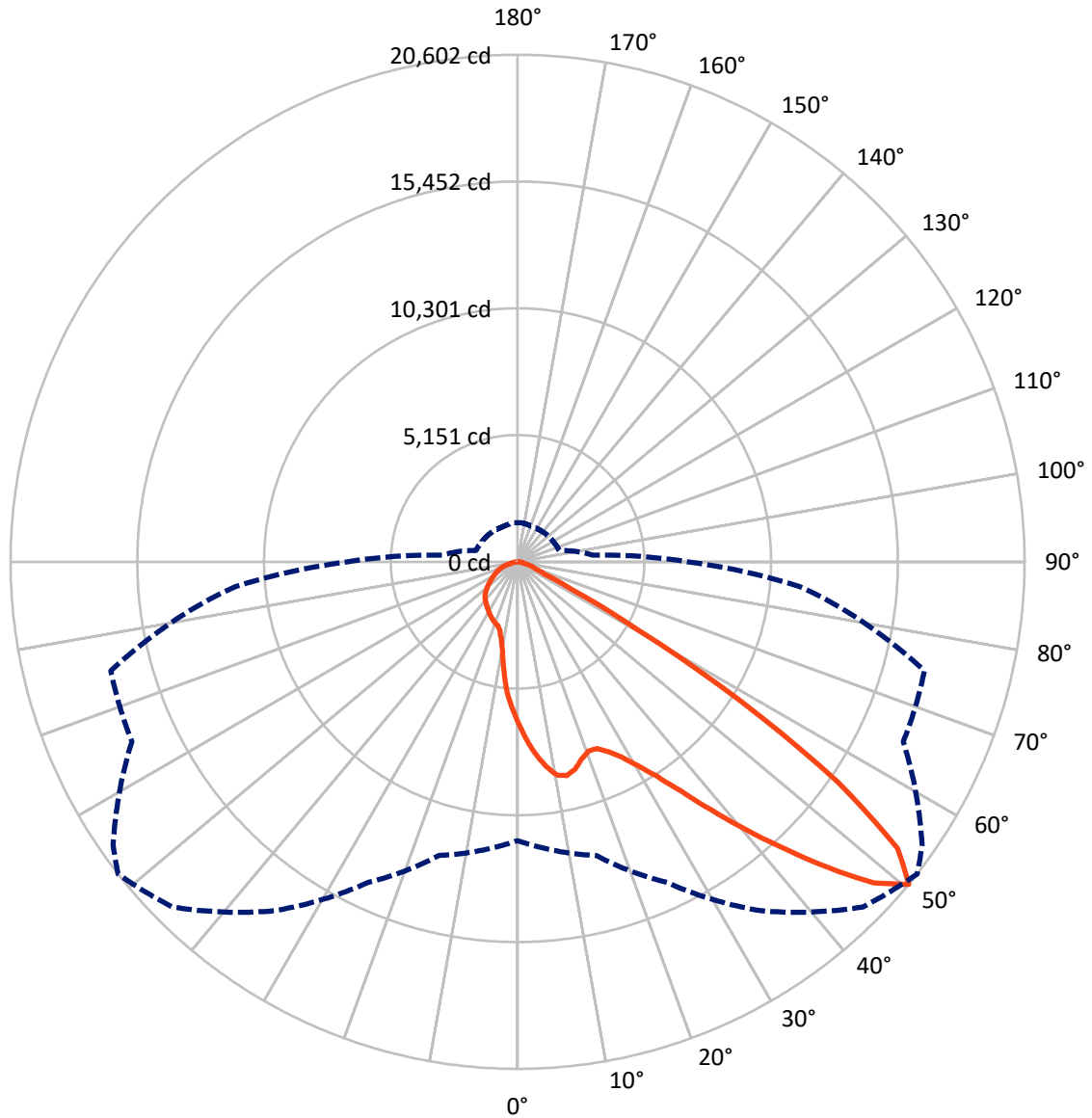
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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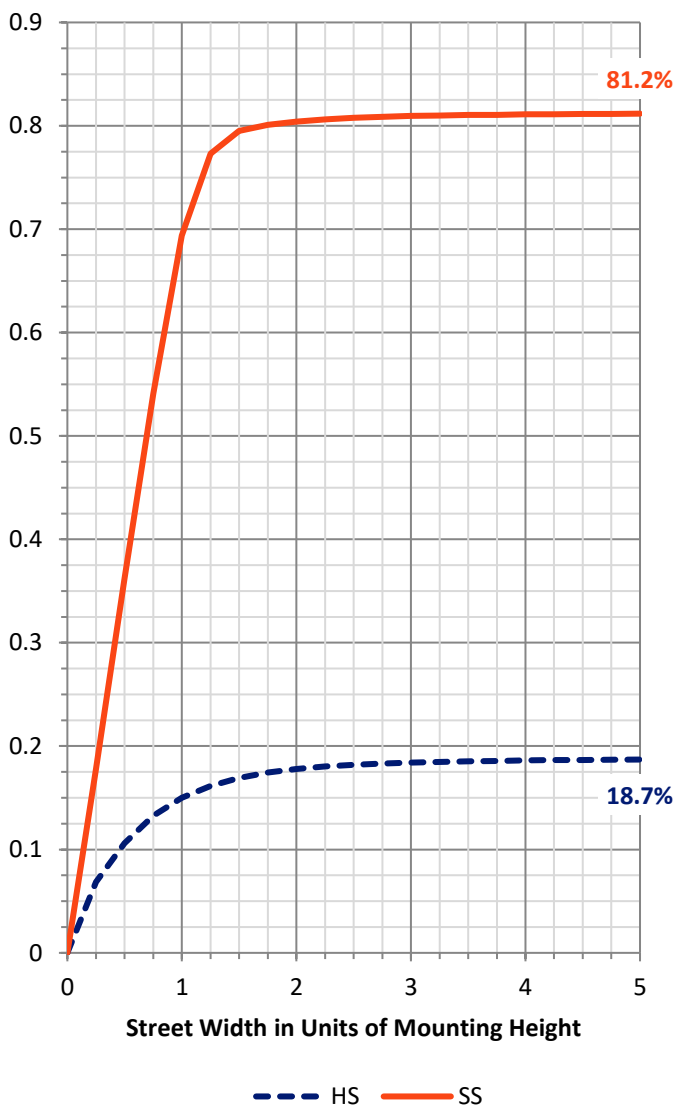
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4402.0	0.0	4402.0
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	19016.0	0.0	19016.0
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	23418.0	0.0	23418.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	608.4	2.6
10°-20°	1630.7	7.0
20°-30°	2746.9	11.7
30°-40°	4609.5	19.7
40°-50°	7051.4	30.1
50°-60°	5141.1	22.0
60°-70°	1144.1	4.9
70°-80°	412.7	1.8
80°-90°	73.0	0.3
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°	23418.0	100.0
0°-180°	23418.0	100.0

**Coefficient of Utilization**

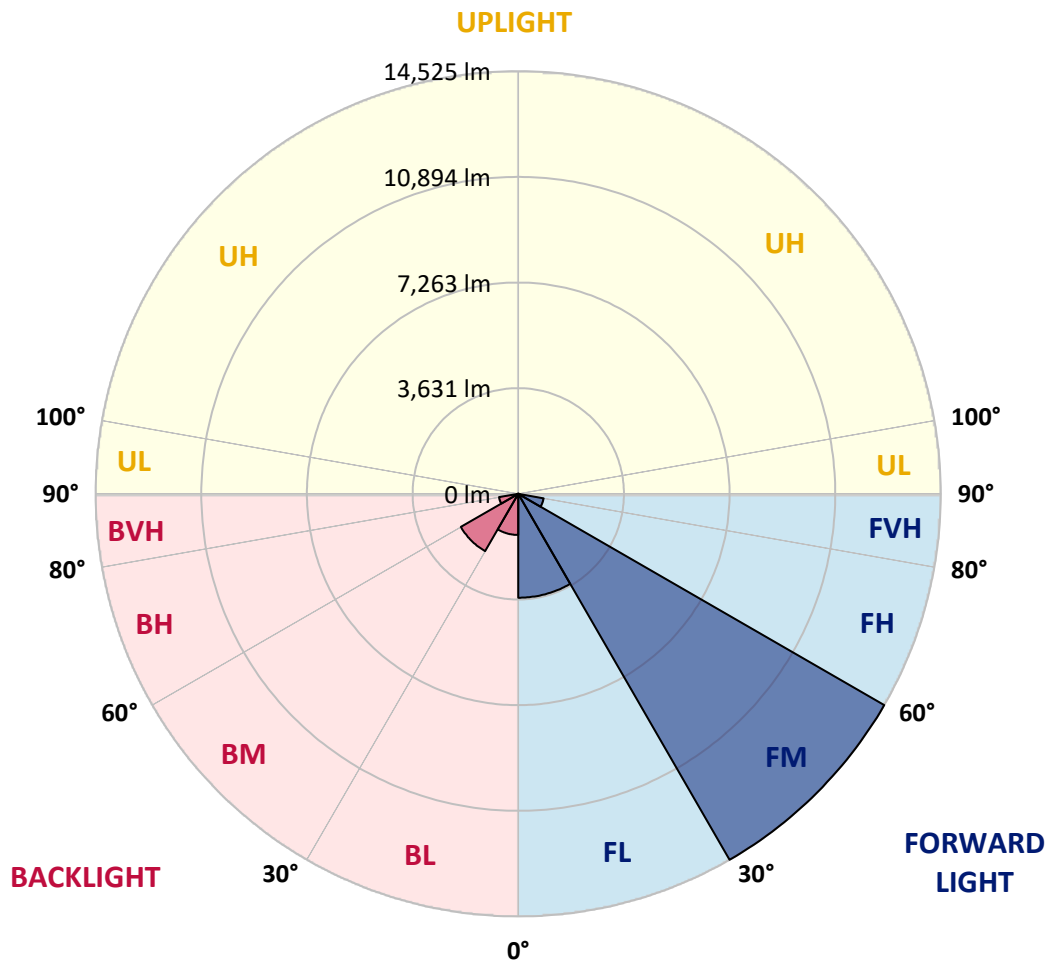


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3572.0	15.3			
FM (30°-60°)	14525.0	62.0			
FH (60°-80°)	886.2	3.8			G1/1800
FVH (80°-90°)	32.7	0.1			G1/100
BL (0°-30°)	1414.0	6.0	B3/2500		
BM (30°-60°)	2277.0	9.7	B2/2500		
BH (60°-80°)	670.7	2.9	B2/1000		G2/1000
BVH (80°-90°)	40.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6601.1	6601.1	6601.1	6601.1	6601.1	6601.1	6601.1	6601.1	6601.1	6601.1	6601.1
2.5°	7772.4	7622.8	7639.7	7532.5	7416.8	7382.9	7264.4	7151.5	7066.8	6886.2	6719.7
5°	8494.8	8449.7	8382.0	8297.3	8209.8	7995.3	7874.0	7732.9	7422.4	7143.0	6866.4
7.5°	8599.3	8590.8	8627.5	8627.5	8658.5	8576.7	8404.5	8305.8	7975.6	7521.2	7007.5
10°	7865.5	7890.9	8068.7	8300.1	8621.8	8844.8	8816.6	8791.2	8429.9	7809.1	7174.1
12.5°	7281.3	7224.9	7329.3	7526.8	8009.4	8548.5	8912.5	8915.4	8822.2	8269.1	7295.4
15°	6951.1	6990.6	7018.8	7112.0	7476.0	8099.7	8740.4	8929.5	9338.7	8593.6	7487.3
17.5°	7162.8	7030.1	7024.5	7047.1	7233.3	7701.8	8421.5	8746.0	9620.9	9011.3	7724.4
20°	7439.3	7436.5	7357.5	7329.3	7326.5	7744.1	8212.6	8652.9	9770.5	9553.2	7964.3
22.5°	7924.8	7924.8	7794.9	7732.9	7600.2	7941.7	8240.8	8540.0	10018.8	9925.7	8080.0
25°	8737.6	8604.9	8382.0	8229.6	8153.4	8274.7	8540.0	8808.1	10236.2	10320.8	8319.9
27.5°	9488.3	9279.4	9169.4	8906.9	8805.3	8734.7	8977.4	9248.4	10490.1	10936.1	8449.7
30°	10340.6	10303.9	10106.3	9767.7	9516.5	9386.7	9609.6	9877.7	10955.8	11565.4	8748.8
32.5°	11864.6	11531.5	11263.4	10848.6	10439.3	10162.8	10382.9	10560.7	11729.1	12223.0	9076.2
35°	13509.9	13402.7	12939.8	12191.9	11565.4	11317.1	11446.9	11579.5	12629.4	13227.7	9626.6
37.5°	15127.0	14980.3	14599.3	13969.9	13207.9	12702.8	12795.9	12951.1	13639.7	14582.4	10298.2
40°	16289.8	16109.2	15917.3	15824.1	15067.8	14376.3	14322.7	14362.2	15005.7	15852.3	11043.3
42.5°	16374.5	16597.4	16656.7	17032.0	16854.2	16287.0	15956.8	15965.2	16309.5	17108.2	11796.8
45°	16196.7	15990.6	16428.1	17452.5	18039.6	18304.8	17748.9	17678.3	17116.7	17836.4	12172.2
47.5°	14331.2	14387.6	15127.0	16747.0	18443.1	19628.5	19498.6	19264.4	17548.5	17811.0	12112.9
50°	11328.3	11669.8	12355.6	14373.5	17314.2	19837.3	20602.1	20060.3	17291.7	17111.1	11509.0
52.5°	7543.8	7684.9	8136.4	10741.3	13922.0	17731.9	19332.1	19456.3	17054.6	16193.8	10744.1
55°	3358.4	3347.1	3982.1	5610.6	8734.7	13493.0	15795.9	16552.3	16143.0	15259.7	9999.1
57.5°	1422.4	1470.4	1730.0	2424.3	4295.4	8142.1	10701.8	11365.0	12414.9	12530.6	7670.8
60°	962.4	968.0	1038.6	1213.5	1797.7	3824.1	5613.4	6409.2	7159.9	7109.1	4069.6
62.5°	756.4	776.1	829.7	900.3	1066.8	1735.7	2511.8	2954.9	3002.8	2525.9	1543.7
65°	646.3	649.1	702.7	762.0	835.4	1010.4	1210.7	1233.3	1247.4	1202.3	1134.5
67.5°	533.4	539.0	581.4	649.1	716.8	773.3	829.7	858.0	922.9	1049.9	1032.9
70°	423.3	431.8	468.5	524.9	587.0	620.9	691.4	716.8	776.1	874.9	914.4
72.5°	321.7	324.6	355.6	395.1	451.6	485.4	544.7	572.9	612.4	697.1	733.8
75°	231.4	239.9	262.5	282.2	290.7	313.3	369.7	400.8	457.2	493.9	496.7
77.5°	121.4	127.0	132.6	132.6	160.9	203.2	239.9	256.8	296.3	324.6	310.4
80°	48.0	50.8	64.9	87.5	112.9	146.8	172.2	180.6	214.5	231.4	239.9
82.5°	28.2	31.0	42.3	62.1	81.8	104.4	124.2	132.6	155.2	175.0	180.6
85°	14.1	16.9	25.4	39.5	53.6	64.9	62.1	59.3	59.3	56.4	59.3
87.5°	5.6	5.6	8.5	8.5	8.5	11.3	14.1	14.1	14.1	16.9	16.9
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°	6601.1	6601.1	6601.1	6601.1	6601.1	6601.1	6601.1	6601.1	6601.1	6601.1	6601.1
2.5°	6609.6	6496.7	6392.3	6200.4	5991.5	5932.3	5689.6	5602.1	5540.0	5466.6	5444.0
5°	6643.5	6493.9	6158.1	5771.4	5463.8	5068.7	4809.0	4529.6	4326.4	4275.6	4261.5
7.5°	6714.0	6457.2	5878.7	5294.5	4665.1	4128.9	3719.7	3499.5	3304.8	3293.5	3273.8
10°	6793.1	6347.1	5573.9	4656.6	3852.3	3355.6	3110.1	3014.1	2966.1	2954.9	2949.2
12.5°	6858.0	6324.6	5232.4	4035.8	3276.6	2977.4	2904.1	2895.6	2915.3	2921.0	2932.3
15°	6886.2	6234.3	4820.3	3479.8	2918.2	2808.1	2839.1	2873.0	2887.1	2923.8	2895.6
17.5°	6939.8	6118.5	4312.3	3039.5	2717.8	2737.5	2791.2	2830.7	2853.3	2878.7	2842.0
20°	6968.0	6014.1	3835.4	2777.1	2647.2	2683.9	2757.3	2788.3	2816.6	2827.9	2785.5
22.5°	6942.6	5799.6	3414.9	2565.4	2579.5	2627.5	2692.4	2726.3	2709.3	2664.2	2638.8
25°	6874.9	5497.7	2977.4	2429.9	2483.5	2568.2	2619.0	2593.6	2562.6	2537.2	2528.7
27.5°	6872.1	5128.0	2661.3	2305.7	2401.7	2517.4	2500.5	2477.9	2492.0	2472.3	2449.7
30°	6886.2	4769.5	2401.7	2235.2	2342.4	2398.9	2418.6	2396.1	2413.0	2376.3	2387.6
32.5°	6812.8	4419.6	2232.4	2153.3	2271.9	2269.1	2334.0	2350.9	2311.4	2235.2	2246.5
35°	6843.9	4137.4	2088.4	2116.7	2192.9	2192.9	2243.7	2223.9	2119.5	2074.3	2085.6
37.5°	7058.3	3860.8	2017.9	2065.9	2116.7	2139.2	2122.3	2037.6	2012.2	2012.2	2017.9
40°	7261.5	3623.7	1975.5	2054.6	2046.1	2060.2	1936.0	1944.5	1944.5	1947.3	1933.2
42.5°	7442.2	3462.8	1941.7	1986.8	2000.9	1927.6	1851.4	1842.9	1862.7	1859.8	1848.5
45°	7507.1	3330.2	1893.7	1910.6	1921.9	1800.6	1763.9	1746.9	1769.5	1778.0	1789.3
47.5°	7258.7	3220.1	1840.1	1806.2	1783.6	1704.6	1656.6	1625.6	1653.8	1701.8	1713.1
50°	6939.8	3076.2	1755.4	1690.5	1642.5	1608.7	1574.8	1543.7	1563.5	1597.4	1588.9
52.5°	6468.5	2850.4	1648.2	1580.4	1498.6	1507.1	1476.0	1459.1	1470.4	1470.4	1461.9
55°	5796.8	2342.4	1467.5	1419.6	1351.8	1374.4	1380.1	1357.5	1334.9	1354.7	1337.7
57.5°	3956.7	1653.8	1309.5	1309.5	1241.8	1272.8	1270.0	1216.4	1162.7	1168.4	1157.1
60°	2288.8	1318.0	1207.9	1196.6	1126.1	1151.5	1157.1	1120.4	1038.6	1044.2	1032.9
62.5°	1301.0	1126.1	1055.5	1038.6	1024.5	1047.0	1047.0	999.1	928.5	934.2	922.9
65°	1106.3	1044.2	942.6	939.8	934.2	939.8	917.2	866.4	804.3	778.9	781.8
67.5°	1004.7	965.2	866.4	841.0	824.1	821.3	778.9	731.0	702.7	680.2	677.3
70°	880.5	849.5	776.1	742.2	725.3	685.8	643.5	612.4	572.9	561.6	572.9
72.5°	697.1	694.3	666.0	629.4	592.7	561.6	524.9	482.6	445.9	437.4	417.7
75°	482.6	488.2	493.9	488.2	457.2	417.7	375.4	341.5	296.3	270.9	265.3
77.5°	316.1	324.6	333.0	321.7	302.0	265.3	237.1	194.7	160.9	141.1	138.3
80°	231.4	242.7	248.4	239.9	217.3	189.1	158.0	124.2	98.8	81.8	81.8
82.5°	177.8	189.1	194.7	180.6	158.0	135.5	112.9	87.5	67.7	53.6	50.8
85°	62.1	59.3	70.6	73.4	87.5	81.8	67.7	50.8	39.5	28.2	25.4
87.5°	16.9	16.9	19.8	19.8	16.9	14.1	14.1	14.1	11.3	8.5	8.5
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)