

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: P530749

Luminaire Tested: **GALN-SA6A-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530749  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-730-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18424 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

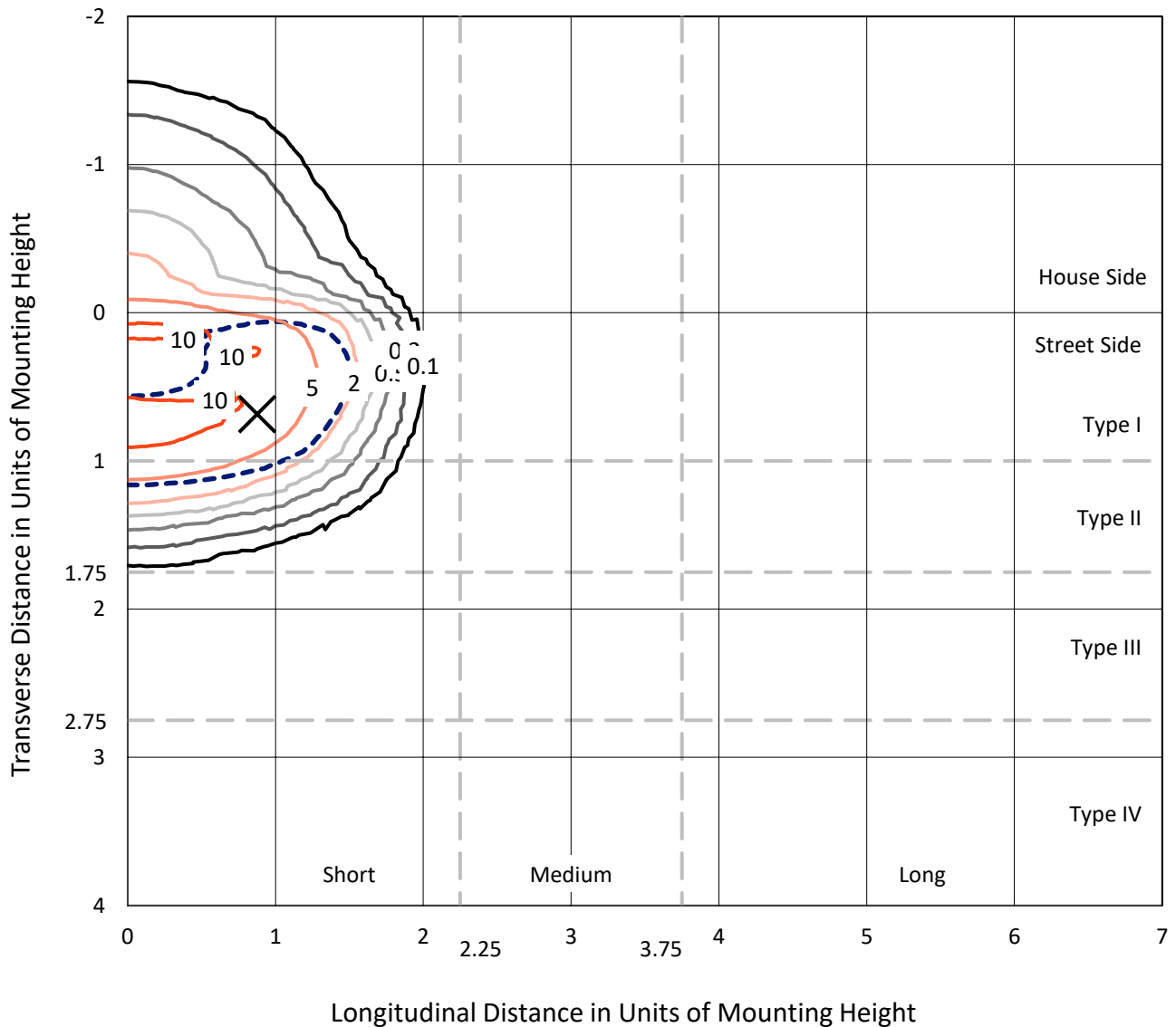
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

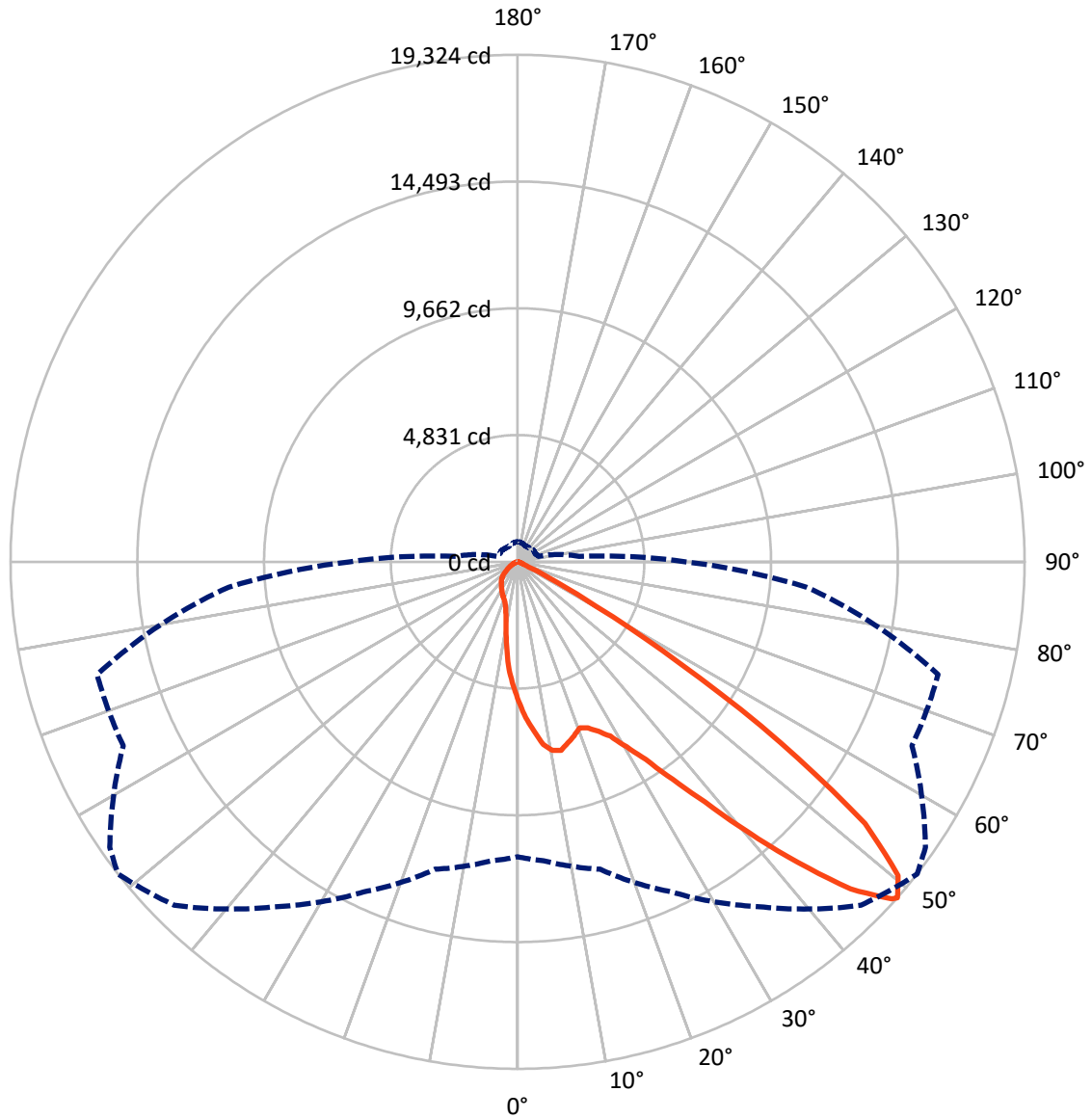
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

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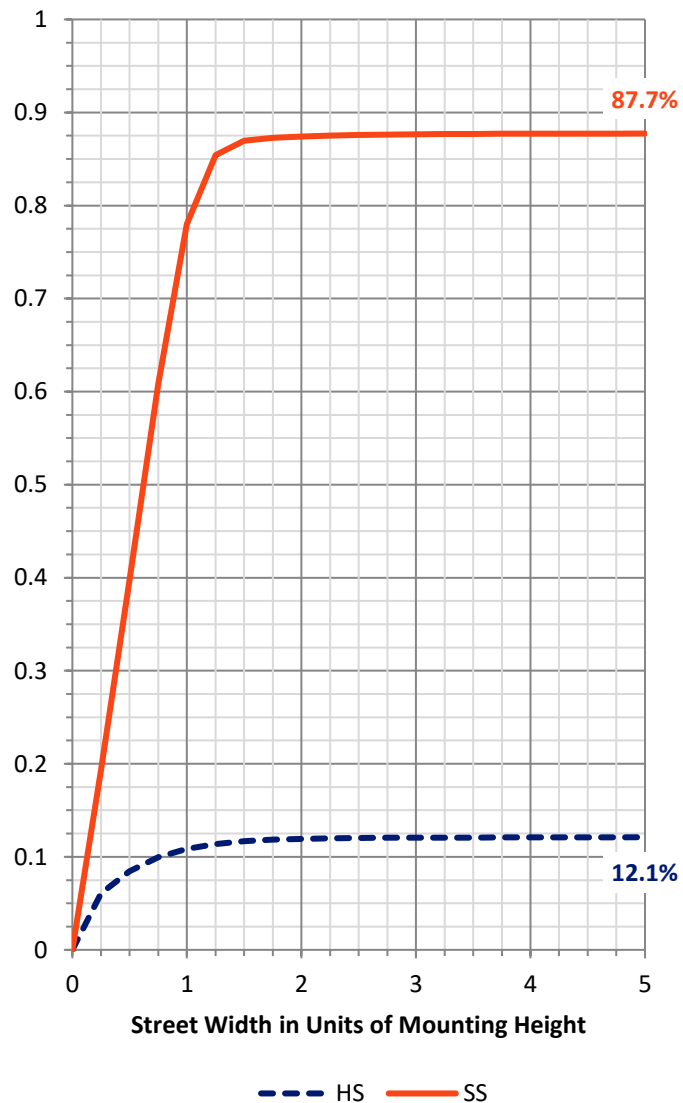
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2243.3	0.0	2243.3
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	16180.7	0.0	16180.7
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	18424.0	0.0	18424.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	487.0	2.6
10°-20°	1272.7	6.9
20°-30°	2173.0	11.8
30°-40°	4001.5	21.7
40°-50°	6214.3	33.7
50°-60°	3740.0	20.3
60°-70°	432.6	2.3
70°-80°	83.7	0.5
80°-90°	19.4	0.1
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°	18424.0	100.0
0°-180°	18424.0	100.0

**Coefficient of Utilization**

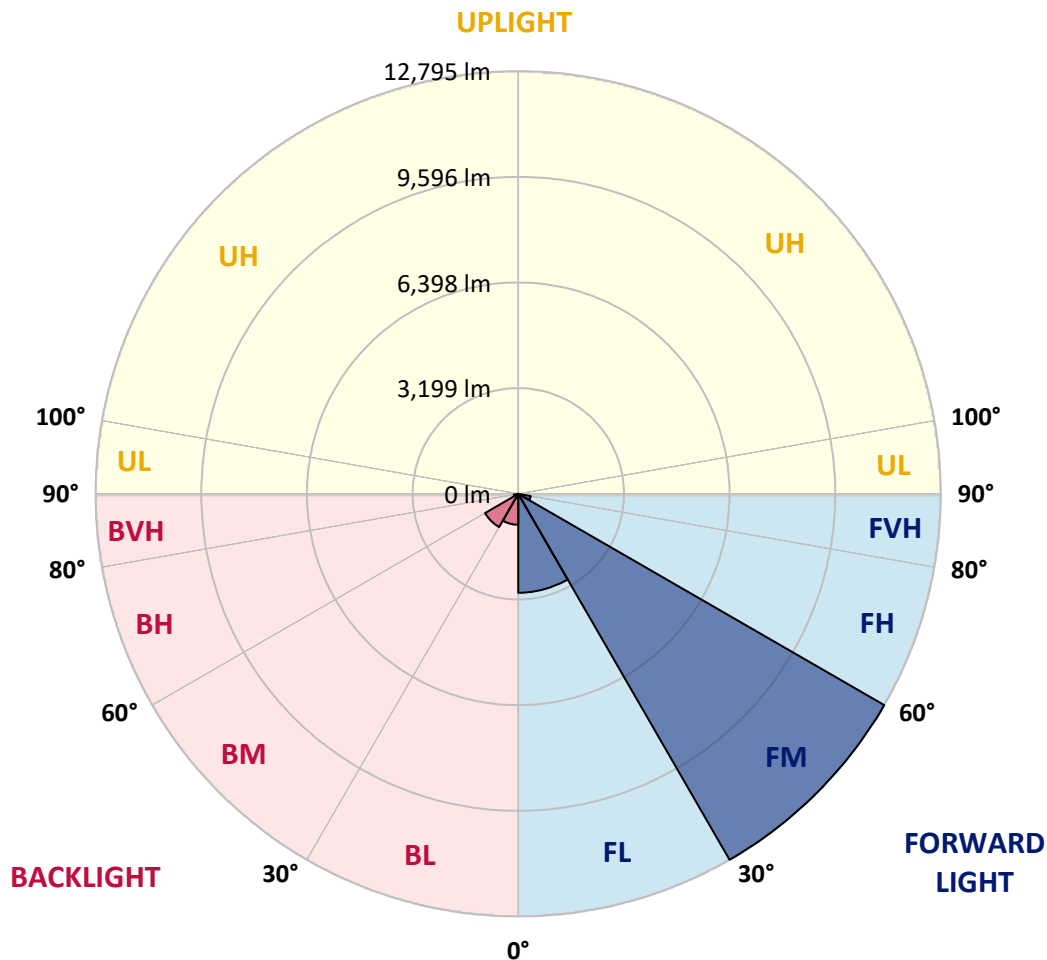


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2995.5	16.3			
FM (30°-60°)	12795.1	69.4			
FH (60°-80°)	380.9	2.1			G0/660
FVH (80°-90°)	9.2	0.1			G0/10
BL (0°-30°)	937.1	5.1	B2/1000		
BM (30°-60°)	1160.6	6.3	B2/2500		
BH (60°-80°)	135.4	0.7	B1/500		G1/500
BVH (80°-90°)	10.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	5320.5	5320.5	5320.5	5320.5	5320.5	5320.5	5320.5	5320.5	5320.5	5320.5	5320.5
2.5°	6448.6	6300.9	6314.3	6217.6	6161.2	6069.9	5946.3	5922.2	5787.9	5605.2	5419.9
5°	7028.7	6993.8	7039.4	6899.8	6905.2	6754.8	6464.7	6470.1	6161.2	5863.1	5575.7
7.5°	7066.3	6985.7	7031.4	7154.9	7227.5	7200.6	7036.8	6894.4	6601.7	6163.9	5744.9
10°	6327.7	6480.8	6529.1	6733.3	7023.3	7329.5	7310.7	7318.8	7074.4	6502.3	5889.9
12.5°	5884.6	5782.5	5946.3	6069.9	6507.7	7101.2	7372.5	7431.6	7450.4	6830.0	6035.0
15°	5683.1	5683.1	5710.0	5744.9	6061.8	6609.7	7163.0	7334.9	7740.4	7259.7	6263.3
17.5°	5809.4	5804.0	5841.6	5769.1	5887.2	6308.9	6969.6	7165.7	8065.4	7681.4	6443.2
20°	6193.4	6212.2	6188.1	5978.6	5986.6	6303.5	6754.8	7063.6	8285.7	8046.6	6682.2
22.5°	6727.9	6738.6	6601.7	6373.4	6306.2	6462.0	6878.3	7114.7	8462.9	8484.4	6754.8
25°	7345.6	7302.7	7275.8	6953.5	6749.4	6883.7	7157.6	7294.6	8573.0	8860.4	6961.6
27.5°	8202.4	8116.5	7952.6	7665.2	7514.8	7324.1	7520.2	7745.8	8887.3	9386.8	7187.2
30°	9467.4	9392.2	9072.6	8702.0	8307.1	8119.1	8180.9	8304.5	9454.0	9996.5	7485.3
32.5°	11371.6	11213.2	10751.2	10044.8	9507.7	8989.3	8973.2	9104.8	9961.6	10839.8	7839.8
35°	13469.2	13420.9	12741.4	12013.5	10974.1	10173.8	10187.2	10257.0	10933.8	11946.4	8304.5
37.5°	14863.1	15129.0	14696.6	13915.1	13042.2	11898.0	11608.0	11632.1	12268.7	13257.0	9142.4
40°	15940.1	15714.5	15765.6	15582.9	14986.7	14207.8	13565.9	13439.7	13813.0	14707.4	9975.0
42.5°	15470.1	15480.9	15795.1	16227.5	16375.2	16318.8	15663.5	15424.5	15134.4	15894.5	10767.3
45°	14143.4	14420.0	14828.2	15972.4	16976.9	17919.6	17790.7	17393.2	16047.6	16834.5	11223.9
47.5°	12027.0	12016.2	12685.0	14172.9	16404.8	18612.5	19198.0	18918.7	16694.9	16729.8	11129.9
48°	11245.4	11438.8	12129.0	13880.2	16042.2	18510.4	19324.2	18972.4	16584.7	16590.1	11049.3
50°	8312.5	8277.6	9137.0	11285.7	14328.7	17393.2	18792.5	19066.4	16582.1	15883.7	10485.3
52.5°	4391.3	4541.7	5167.5	7095.9	10130.8	14234.7	16576.7	17003.7	15996.6	14728.9	9674.2
55°	1866.6	1686.7	2167.4	3204.1	5699.2	9510.4	12161.2	13112.0	13525.6	13034.1	8462.9
57.5°	666.1	727.8	838.0	1205.9	2395.7	5205.1	7251.6	7990.2	9370.7	9564.1	5766.4
60°	427.0	435.1	470.0	553.3	899.7	2006.3	3440.5	4028.7	4654.5	4804.9	2691.2
62.5°	330.4	333.0	349.2	362.6	427.0	778.9	1291.9	1530.9	1590.0	1367.1	706.4
65°	276.6	279.3	284.7	284.7	303.5	365.3	451.2	496.9	483.4	478.1	400.2
67.5°	212.2	217.5	228.3	228.3	239.0	222.9	249.8	265.9	300.8	365.3	341.1
70°	166.5	169.2	177.3	182.6	182.6	161.1	179.9	196.1	220.2	271.3	268.6
72.5°	128.9	134.3	139.7	139.7	131.6	110.1	128.9	142.3	158.5	188.0	182.6
75°	99.4	99.4	102.1	83.3	64.5	56.4	77.9	94.0	118.2	123.5	102.1
77.5°	26.9	29.5	26.9	24.2	26.9	40.3	51.0	59.1	75.2	75.2	67.1
80°	0.0	2.7	8.1	16.1	26.9	37.6	45.7	51.0	59.1	64.5	61.8
82.5°	0.0	2.7	8.1	16.1	24.2	29.5	40.3	43.0	48.3	56.4	56.4
85°	0.0	2.7	5.4	10.7	16.1	18.8	18.8	16.1	16.1	13.4	10.7
87.5°	0.0	0.0	2.7	5.4	5.4	8.1	8.1	8.1	8.1	8.1	8.1
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°	5320.5	5320.5	5320.5	5320.5	5320.5	5320.5	5320.5	5320.5	5320.5	5320.5	5320.5
2.5°	5347.4	5264.1	5137.9	4939.2	4748.5	4624.9	4506.8	4375.1	4302.6	4297.3	4257.0
5°	5411.9	5223.9	4923.0	4582.0	4216.7	3902.4	3585.5	3378.7	3193.4	3091.3	3072.5
7.5°	5446.8	5202.4	4716.2	4144.2	3521.1	3008.1	2653.6	2393.0	2291.0	2215.8	2213.1
10°	5519.3	5164.8	4407.4	3564.0	2793.2	2274.9	2030.5	1912.3	1855.9	1834.4	1802.2
12.5°	5573.0	5094.9	4090.5	2967.8	2207.7	1885.4	1778.0	1751.1	1753.8	1764.6	1751.1
15°	5648.2	5033.2	3663.4	2436.0	1853.2	1697.4	1697.4	1702.8	1740.4	1745.8	1743.1
17.5°	5642.8	4912.3	3222.9	2006.3	1638.3	1616.8	1624.9	1675.9	1700.1	1708.2	1689.4
20°	5707.3	4799.5	2769.0	1713.5	1517.5	1549.7	1603.4	1616.8	1646.4	1651.8	1630.3
22.5°	5688.5	4517.5	2347.4	1482.6	1426.2	1487.9	1541.6	1557.8	1549.7	1533.6	1530.9
25°	5653.6	4275.8	1960.6	1329.5	1359.0	1426.2	1477.2	1447.6	1431.5	1434.2	1436.9
27.5°	5591.8	3969.6	1641.0	1222.0	1267.7	1367.1	1364.4	1353.6	1369.8	1356.3	1369.8
30°	5581.1	3663.4	1377.8	1125.3	1200.5	1273.1	1278.4	1297.2	1316.0	1291.9	1316.0
32.5°	5597.2	3327.7	1189.8	1066.3	1160.3	1162.9	1222.0	1240.8	1227.4	1173.7	1179.1
35°	5720.7	3069.9	1052.8	1034.0	1095.8	1098.5	1154.9	1130.7	1071.6	1039.4	1058.2
37.5°	5981.2	2855.0	988.4	1004.5	1009.9	1044.8	1047.5	999.1	1004.5	1001.8	1012.5
40°	6314.3	2691.2	942.7	977.6	972.3	996.4	899.7	926.6	950.8	958.8	964.2
42.5°	6542.6	2573.0	913.2	934.7	923.9	880.9	827.2	854.1	872.9	902.4	907.8
45°	6644.6	2479.0	878.3	859.5	859.5	781.6	760.1	765.4	808.4	840.7	835.3
47.5°	6478.1	2387.7	816.5	760.1	778.9	714.4	690.2	690.2	735.9	776.2	768.1
48°	6413.7	2350.1	819.2	738.6	752.0	703.7	679.5	674.1	725.2	762.8	762.8
50°	6094.1	2210.4	749.3	679.5	652.6	647.3	631.2	636.5	668.8	703.7	703.7
52.5°	5470.9	1909.6	633.8	582.8	534.5	566.7	574.8	564.0	580.1	612.4	609.7
55°	4565.8	1466.4	507.6	483.4	445.8	480.8	496.9	483.4	467.3	491.5	491.5
57.5°	2924.8	789.6	405.6	410.9	373.3	408.2	421.7	389.4	359.9	378.7	376.0
60°	1318.7	472.7	333.0	325.0	300.8	341.1	362.6	325.0	284.7	298.1	311.6
62.5°	494.2	335.7	252.5	247.1	241.7	279.3	290.1	260.5	220.2	228.3	231.0
65°	362.6	295.4	201.4	182.6	193.4	220.2	214.9	185.3	158.5	158.5	163.8
67.5°	308.9	257.8	163.8	142.3	142.3	145.0	134.3	118.2	110.1	115.5	120.9
70°	241.7	204.1	128.9	110.1	99.4	88.6	77.9	75.2	67.1	75.2	72.5
72.5°	155.8	137.0	99.4	83.3	75.2	61.8	51.0	48.3	40.3	37.6	37.6
75°	83.3	83.3	77.9	67.1	59.1	48.3	40.3	32.2	21.5	16.1	16.1
77.5°	59.1	64.5	69.8	64.5	53.7	40.3	32.2	21.5	10.7	5.4	5.4
80°	56.4	64.5	69.8	61.8	53.7	40.3	29.5	16.1	8.1	2.7	2.7
82.5°	51.0	59.1	64.5	56.4	48.3	34.9	26.9	16.1	8.1	2.7	2.7
85°	10.7	13.4	16.1	16.1	18.8	24.2	18.8	13.4	5.4	2.7	2.7
87.5°	8.1	8.1	8.1	8.1	8.1	8.1	5.4	5.4	2.7	2.7	2.7
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)