

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: P956627

Luminaire Tested: **GALN-SB9B-722-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956627  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB9B-722-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

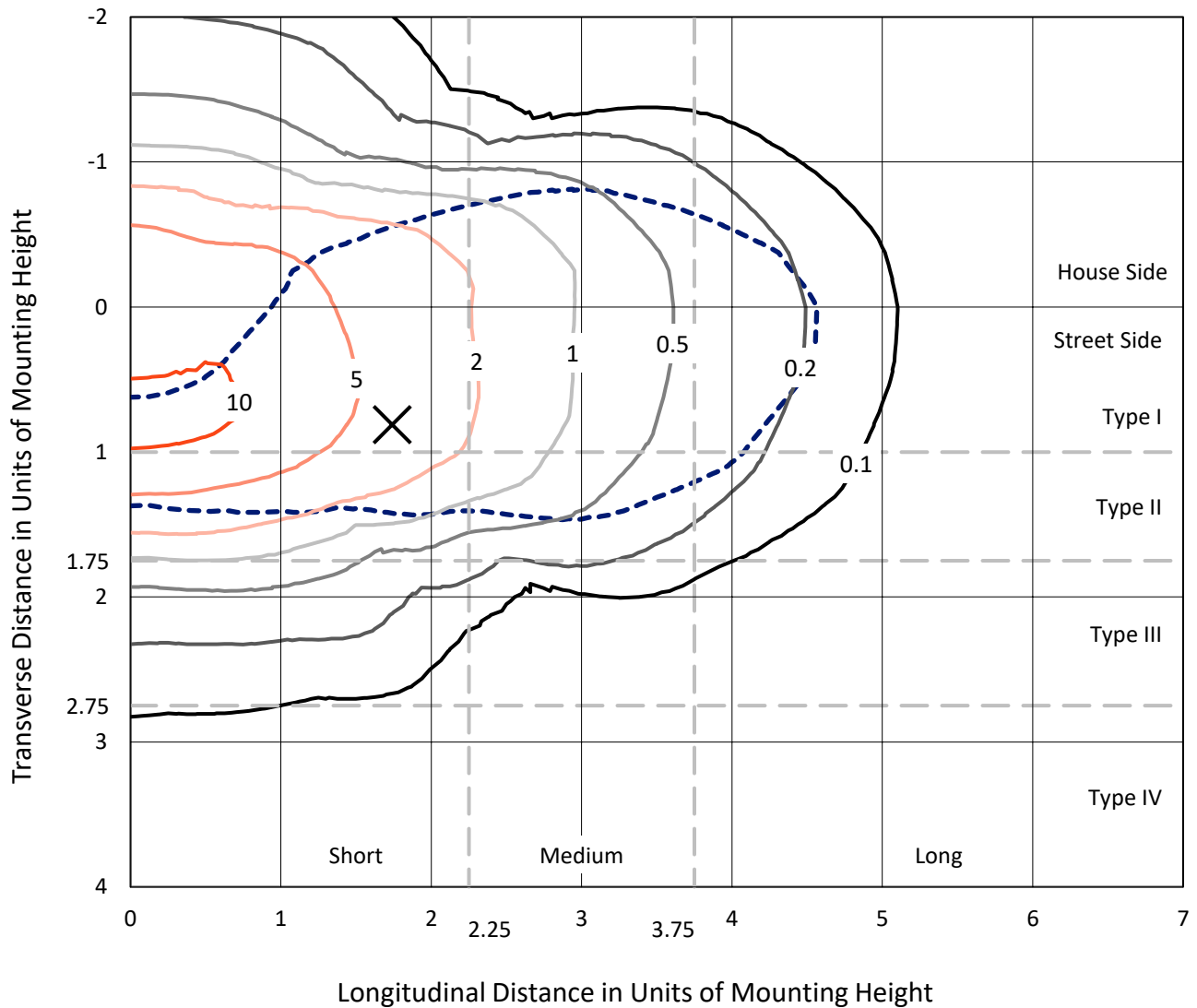
Lumens per Lamp: N/A  
Luminaire Lumens: 42937 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

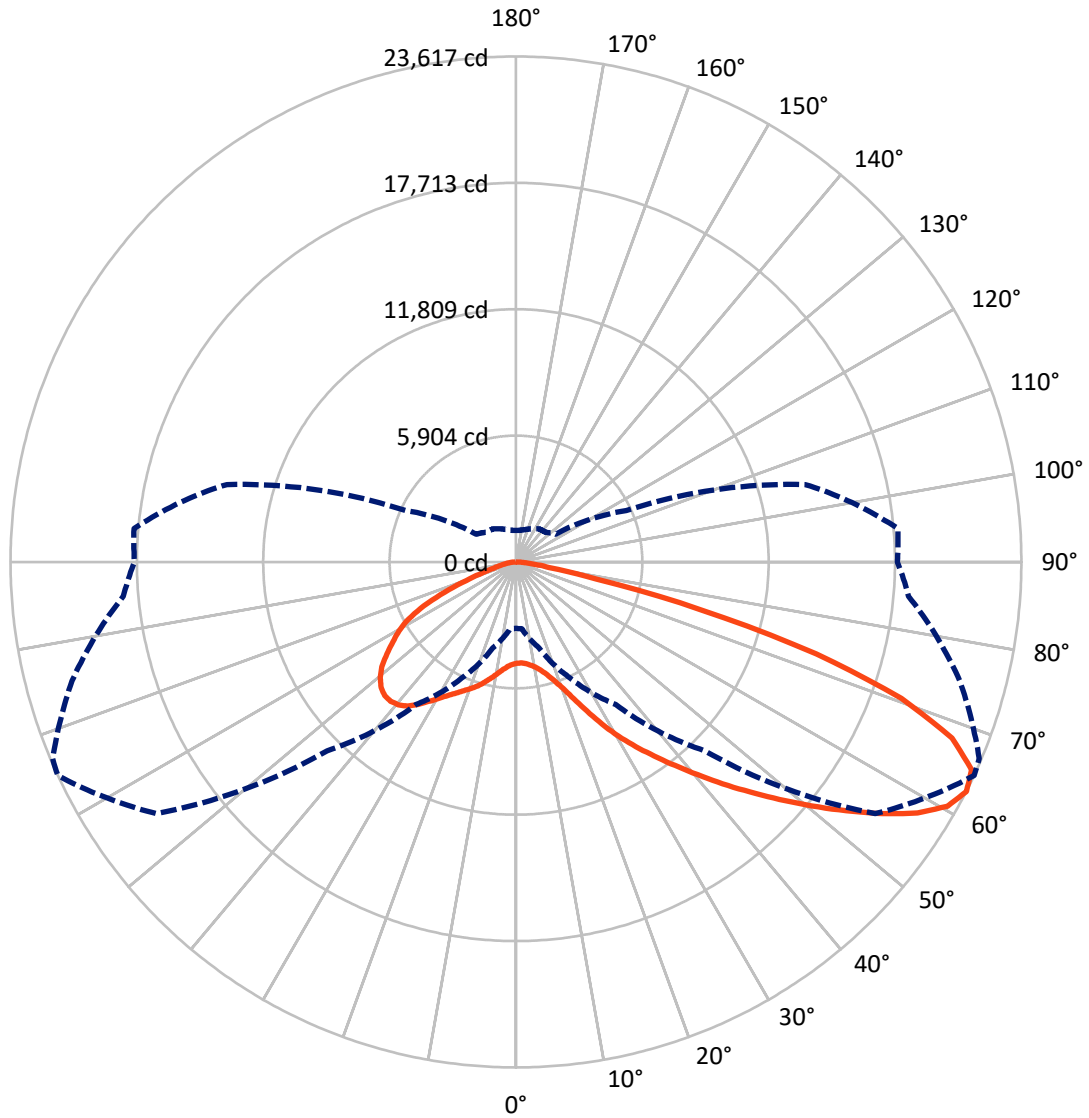
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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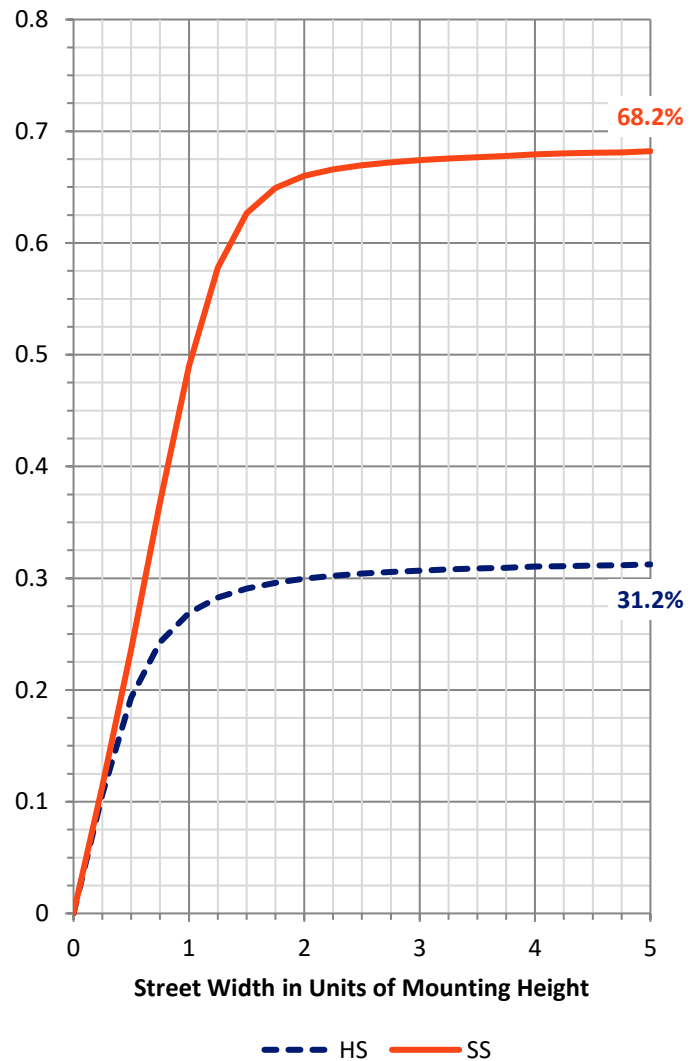
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13549.0	0.0	13549.0
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	29388.0	0.0	29388.0
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	42937.0	0.0	42937.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	471.7	1.1
10°-20°	1599.7	3.7
20°-30°	3243.5	7.6
30°-40°	5612.8	13.1
40°-50°	8493.8	19.8
50°-60°	9958.5	23.2
60°-70°	8349.0	19.4
70°-80°	4609.3	10.7
80°-90°	598.7	1.4
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°	42937.0	100.0
0°-180°	42937.0	100.0

**Coefficient of Utilization**



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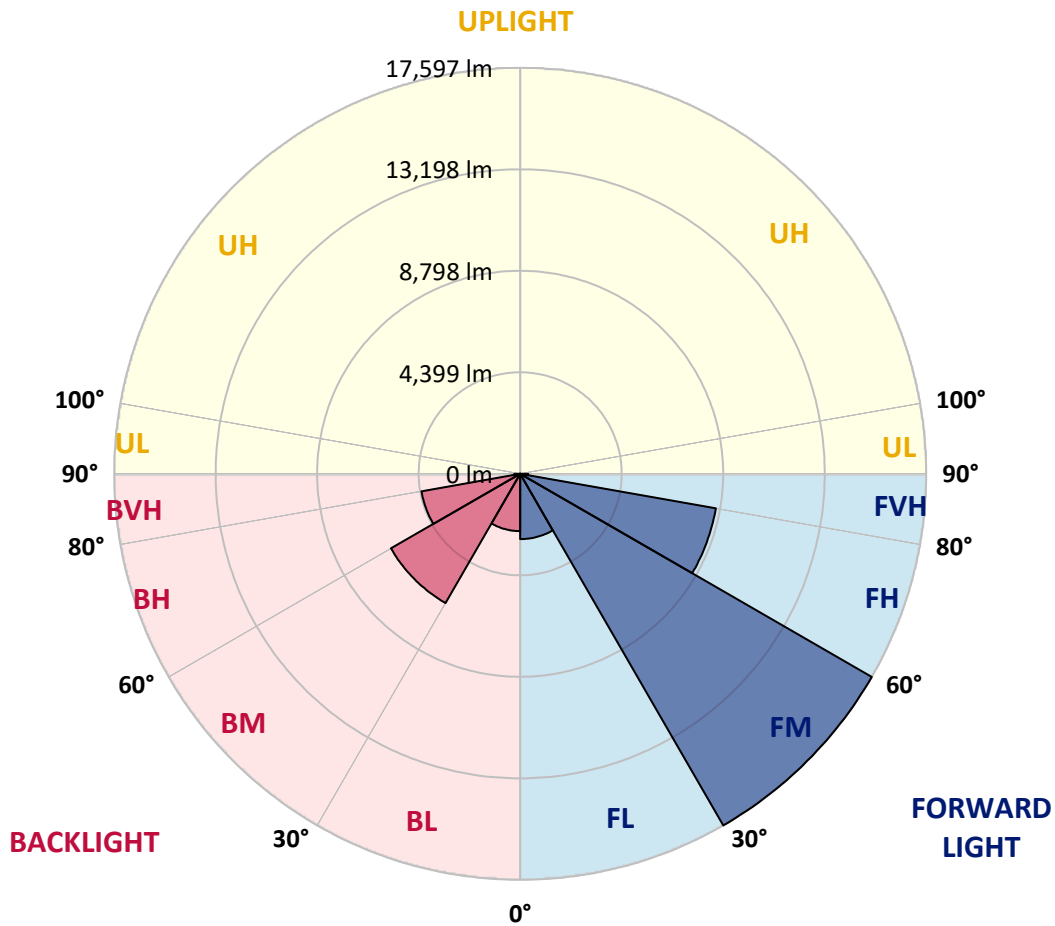
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2830.1	6.6			
FM (30°-60°)	17597.0	41.0			
FH (60°-80°)	8611.9	20.1			G4/12000
FVH (80°-90°)	349.0	0.8			G3/500
BL (0°-30°)	2484.7	5.8	B3/2500		
BM (30°-60°)	6468.1	15.1	B4/8500		
BH (60°-80°)	4346.4	10.1	B4/5000		G4/5000
BVH (80°-90°)	249.8	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4731.5	4731.5	4731.5	4731.5	4731.5	4731.5	4731.5	4731.5	4731.5	4731.5	4731.5
2.5°	4700.3	4686.9	4698.1	4698.1	4702.5	4700.3	4715.9	4720.3	4727.0	4740.4	4740.4
5°	4653.5	4651.3	4671.3	4689.1	4707.0	4722.6	4742.6	4771.6	4776.0	4791.6	4811.7
7.5°	4637.9	4624.5	4655.7	4678.0	4720.3	4758.2	4811.7	4860.7	4880.7	4887.4	4925.3
10°	4758.2	4735.9	4764.9	4778.3	4813.9	4851.8	4914.1	4992.1	5014.4	5041.1	5083.4
12.5°	4963.1	4938.6	4981.0	5001.0	5034.4	5067.8	5110.2	5185.9	5197.0	5246.1	5286.1
15°	5243.8	5214.9	5241.6	5266.1	5321.8	5353.0	5395.3	5468.8	5468.8	5506.7	5535.6
17.5°	5624.7	5586.9	5606.9	5615.8	5651.5	5698.3	5769.5	5834.1	5867.6	5854.2	5814.1
20°	6192.8	6146.0	6146.0	6101.5	6088.1	6126.0	6219.5	6308.6	6344.3	6275.2	6177.2
22.5°	7046.0	6979.1	6941.3	6789.8	6729.6	6734.1	6827.7	6936.8	6965.8	6843.3	6622.7
25°	8130.8	8026.1	7974.9	7752.1	7616.2	7498.2	7571.7	7712.0	7752.1	7600.6	7244.2
27.5°	9215.7	9222.4	9173.4	8906.0	8681.0	8465.0	8427.1	8574.1	8616.4	8444.9	8003.8
30°	10737.1	10579.0	10485.4	10164.6	9843.9	9540.9	9385.0	9445.1	9456.3	9251.3	8739.0
32.5°	12049.2	12009.1	11808.6	11527.9	11115.8	10641.4	10380.7	10284.9	10267.1	9975.3	9367.2
35°	13543.9	13521.7	13310.0	12975.9	12530.4	11871.0	11401.0	11127.0	11104.7	10694.8	9988.7
37.5°	15063.2	15063.2	14856.0	14490.7	14029.6	13205.3	12490.3	12055.9	11984.6	11450.0	10621.3
40°	16275.0	16201.5	16239.4	16085.7	15557.7	14682.3	13699.9	13069.5	12973.7	12332.1	11294.0
42.5°	16963.3	16938.8	17166.1	17337.6	17121.5	16422.0	15032.0	14167.7	14034.0	13303.4	12069.3
45°	17117.1	17090.3	17495.8	18123.9	18426.9	18139.5	16480.0	15323.8	15161.2	14319.2	12900.2
47.5°	16762.9	16709.4	17304.2	18295.5	19266.7	19772.4	18048.2	16578.0	16341.8	15308.2	13753.3
50°	15698.1	15646.8	16546.8	17863.3	19549.6	20881.7	19750.1	17907.9	17547.0	16368.6	14615.4
52.5°	13383.6	13408.1	14818.1	16627.0	19177.6	21572.3	21215.9	19309.0	18874.6	17453.4	15424.1
55°	10425.3	10478.7	12211.8	14203.3	17689.6	21467.6	22216.1	20752.5	20320.4	18473.7	16259.4
57.5°	7464.8	7700.9	9324.8	11296.3	14831.5	19808.0	22434.4	22124.8	21706.0	19587.5	17077.0
60°	4838.4	4880.7	6551.4	8538.5	11294.0	16858.7	21991.1	23165.1	22837.6	20723.6	17760.8
62.5°	3100.9	3129.8	4147.8	5972.3	8128.6	12472.5	20498.6	23617.3	23517.0	21474.3	18418.0
65°	2278.9	2256.6	2786.8	3947.3	5475.5	7692.0	17600.4	23399.0	23597.2	21944.3	18961.5
67.5°	1902.4	1871.2	2131.8	2733.3	4034.2	4368.4	13022.7	21980.0	22706.2	21890.9	19360.3
70°	1733.1	1706.4	1864.5	2029.4	3147.6	2924.9	6564.8	19108.5	20226.8	21282.7	19295.7
72.5°	1468.0	1421.2	1637.3	1802.1	2448.2	2243.2	2713.2	14677.8	16041.1	19333.5	18386.8
75°	1138.3	1107.1	1292.0	1586.1	1840.0	1750.9	1715.3	8912.7	10400.8	14951.8	16085.7
77.5°	902.2	859.9	1029.2	1236.3	1655.1	1321.0	1249.7	3838.2	5312.9	9545.4	12035.8
80°	679.4	641.6	781.9	977.9	1272.0	995.7	808.6	1566.0	2002.6	4836.2	6052.5
82.5°	483.4	450.0	545.8	717.3	855.4	893.3	496.8	877.7	986.8	1864.5	1352.2
85°	309.6	289.6	365.3	450.0	543.5	574.7	303.0	458.9	503.4	768.5	563.6
87.5°	169.3	138.1	196.0	209.4	251.7	229.4	144.8	167.1	180.4	278.5	238.4
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°	4731.5	4731.5	4731.5	4731.5	4731.5	4731.5	4731.5	4731.5	4731.5	4731.5	4731.5
2.5°	4749.3	4756.0	4778.3	4784.9	4800.5	4820.6	4833.9	4847.3	4847.3	4860.7	4860.7
5°	4813.9	4829.5	4876.3	4900.8	4940.9	4981.0	5005.5	5034.4	5052.2	5061.2	5065.6
7.5°	4938.6	4963.1	5030.0	5072.3	5141.4	5197.0	5234.9	5275.0	5283.9	5308.4	5299.5
10°	5107.9	5136.9	5212.6	5292.8	5375.3	5444.3	5480.0	5508.9	5520.0	5524.5	5513.4
12.5°	5301.7	5344.1	5442.1	5540.1	5627.0	5687.1	5696.0	5689.3	5658.2	5631.4	5631.4
15°	5540.1	5578.0	5687.1	5794.0	5878.7	5889.8	5834.1	5798.5	5760.6	5754.0	5754.0
17.5°	5825.2	5845.3	5945.5	6050.2	6056.9	6019.0	5936.6	5903.2	5867.6	5843.1	5845.3
20°	6157.1	6150.5	6221.8	6266.3	6219.5	6103.7	5978.9	5923.2	5887.6	5858.6	5860.9
22.5°	6553.7	6502.4	6493.5	6482.4	6357.6	6114.8	5945.5	5874.2	5818.6	5778.5	5791.8
25°	7130.6	6934.6	6798.7	6723.0	6442.3	6054.7	5838.6	5680.4	5575.7	5506.7	5533.4
27.5°	7852.4	7522.7	7179.6	6994.7	6442.3	5932.2	5580.2	5324.0	5152.5	5081.2	5116.8
30°	8540.7	8195.4	7689.8	7322.2	6426.7	5731.7	5163.6	4807.2	4606.7	4535.4	4577.8
32.5°	9128.8	8752.3	8231.1	7680.8	6388.8	5406.4	4646.8	4252.5	4058.7	3974.1	4016.4
35°	9674.6	9273.6	8774.6	8075.1	6288.6	4929.7	4078.8	3778.0	3562.0	3426.1	3470.6
37.5°	10233.7	9757.0	9289.2	8431.6	6108.1	4372.8	3642.2	3386.0	3132.0	2949.4	2998.4
40°	10841.8	10271.6	9839.4	8643.2	5811.9	3842.6	3303.6	3069.7	2800.1	2606.3	2644.2
42.5°	11552.5	10888.6	10452.0	8752.3	5406.4	3466.2	3083.0	2853.6	2599.6	2441.5	2472.7
45°	12294.3	11568.0	11011.1	8750.1	4954.2	3290.2	3011.7	2784.5	2503.8	2339.0	2365.7
47.5°	13071.7	12278.7	11494.5	8607.5	4562.2	3314.7	2971.6	2635.3	2325.6	2165.2	2187.5
50°	13851.4	13056.1	11962.3	8340.2	4395.1	3261.2	2822.4	2425.9	2060.6	1915.8	1924.7
52.5°	14624.3	13882.5	12365.5	7959.3	4225.8	3063.0	2630.8	2154.1	1951.4	1851.2	1851.2
55°	15401.8	14700.1	12804.4	7404.6	3802.6	2831.3	2310.0	2051.6	1864.5	1773.2	1764.3
57.5°	16181.5	15644.6	13220.9	6849.9	3270.2	2546.2	2134.1	1926.9	1777.6	1699.7	1686.3
60°	16992.3	16725.0	13650.9	6339.8	2744.4	2180.8	2004.9	1826.7	1675.2	1588.3	1581.6
62.5°	17827.7	17914.5	13987.2	5682.7	2261.0	1958.1	1889.0	1706.4	1559.3	1476.9	1474.7
65°	18669.7	19061.8	14207.8	4771.6	1833.3	1746.5	1764.3	1574.9	1425.7	1354.4	1352.2
67.5°	19304.6	19888.2	14145.4	3611.0	1503.6	1546.0	1608.3	1436.8	1296.5	1240.8	1243.0
70°	19375.9	19790.2	13530.6	2472.7	1258.6	1349.9	1434.6	1300.9	1156.1	1116.0	1118.3
72.5°	18426.9	18453.6	11817.5	1615.0	1064.8	1185.1	1251.9	1162.8	1022.5	982.4	980.2
75°	15938.6	15261.4	8676.6	1064.8	891.0	1018.0	1080.4	1018.0	882.1	891.0	859.9
77.5°	12075.9	10808.4	5268.3	757.4	744.0	855.4	940.1	895.5	779.7	875.5	770.8
80°	6221.8	5847.5	2350.1	565.8	588.1	683.9	773.0	715.1	617.1	588.1	536.9
82.5°	1425.7	1657.4	926.7	405.4	425.5	492.3	590.3	536.9	443.3	374.2	369.8
85°	499.0	545.8	409.9	253.9	249.5	307.4	401.0	358.6	300.7	240.6	253.9
87.5°	158.2	207.2	153.7	102.5	106.9	138.1	184.9	169.3	140.3	91.3	95.8
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)