

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: P955220

Luminaire Tested: **GALN-SB8B-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955220
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-SB8B-727-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42800 lumens
Efficiency: N/A
Efficacy: 146.2 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

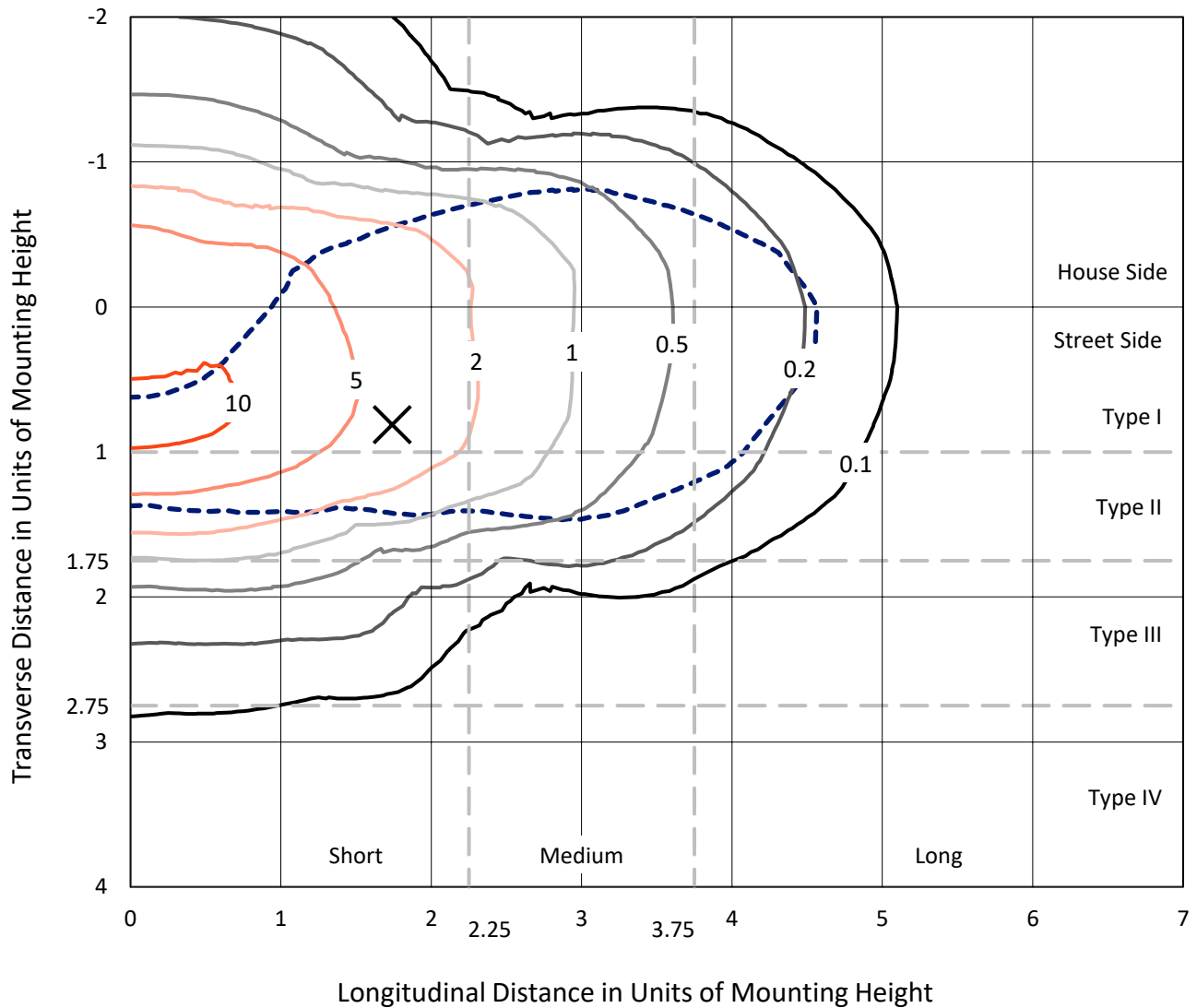
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

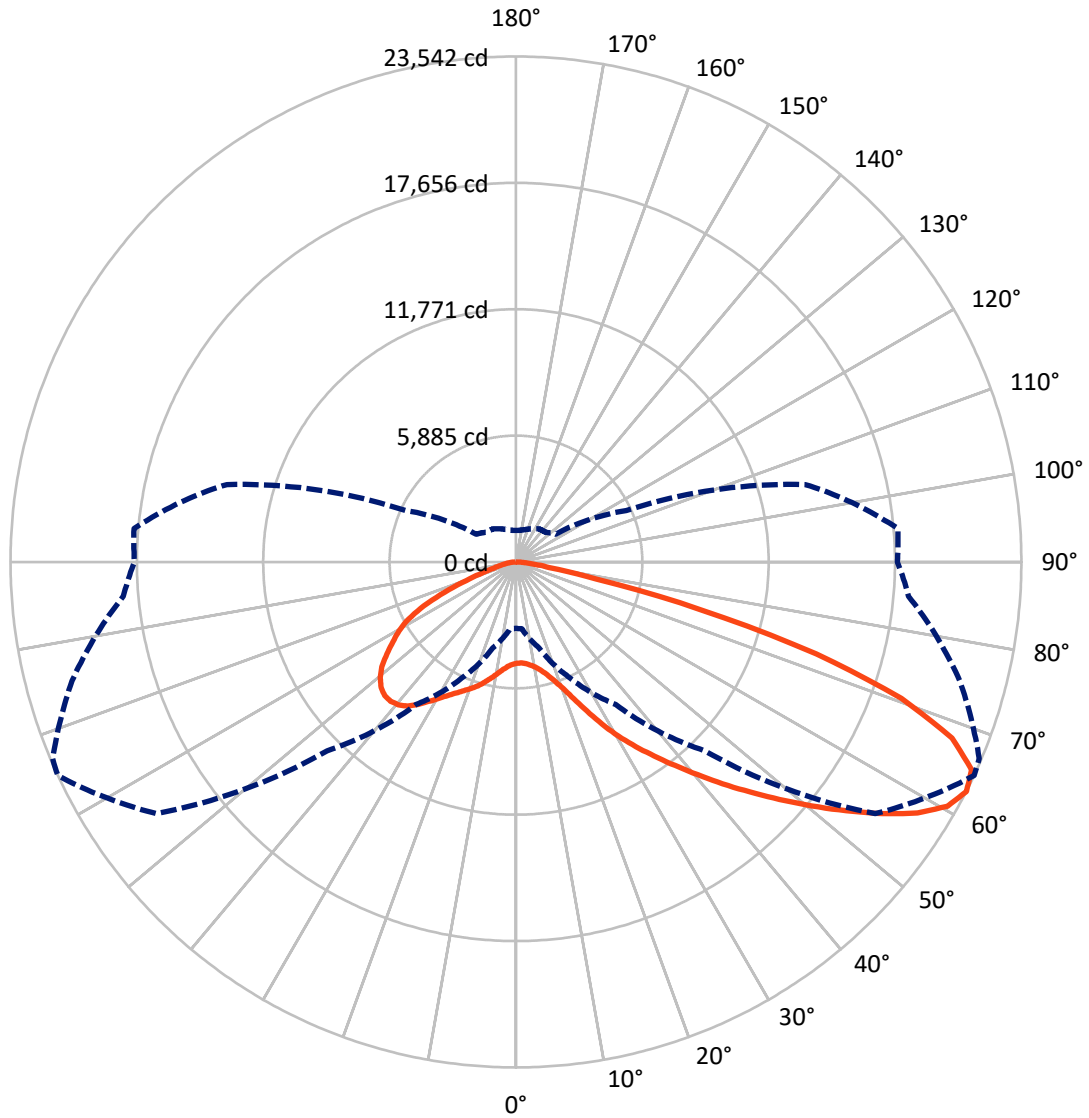
✕ Max cd
 - - - 1/2 Max cd



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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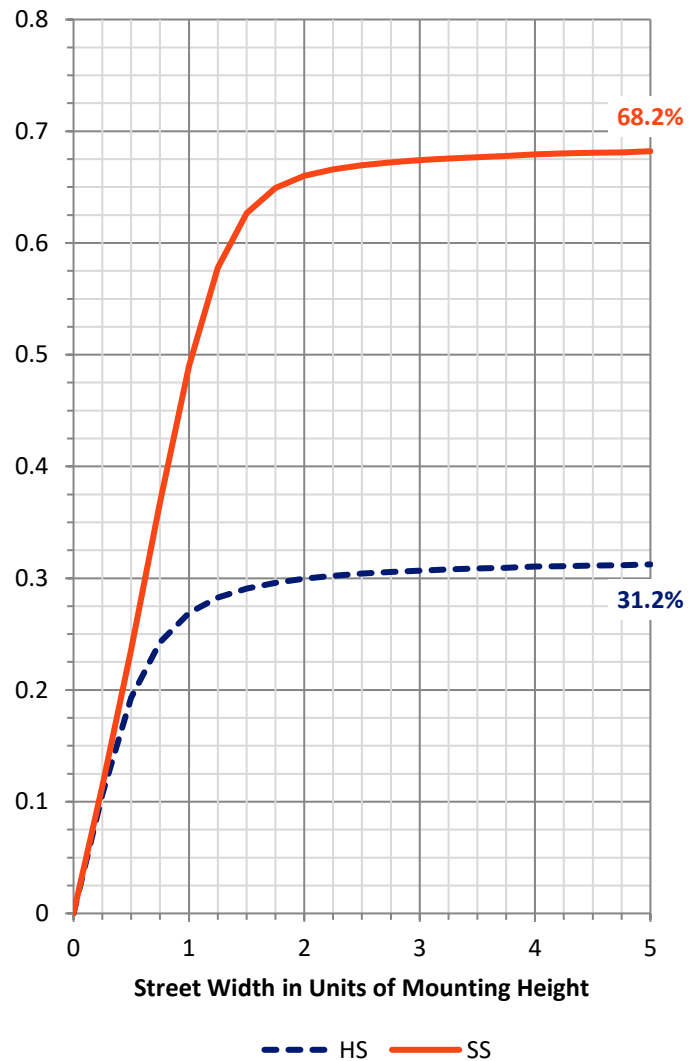
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13505.8	0.0	13505.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	29294.2	0.0	29294.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	42800.0	0.0	42800.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.2	1.1
10°-20°	1594.5	3.7
20°-30°	3233.1	7.6
30°-40°	5594.9	13.1
40°-50°	8466.7	19.8
50°-60°	9926.7	23.2
60°-70°	8322.4	19.4
70°-80°	4594.6	10.7
80°-90°	596.8	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°	42800.0	100.0
0°-180°	42800.0	100.0



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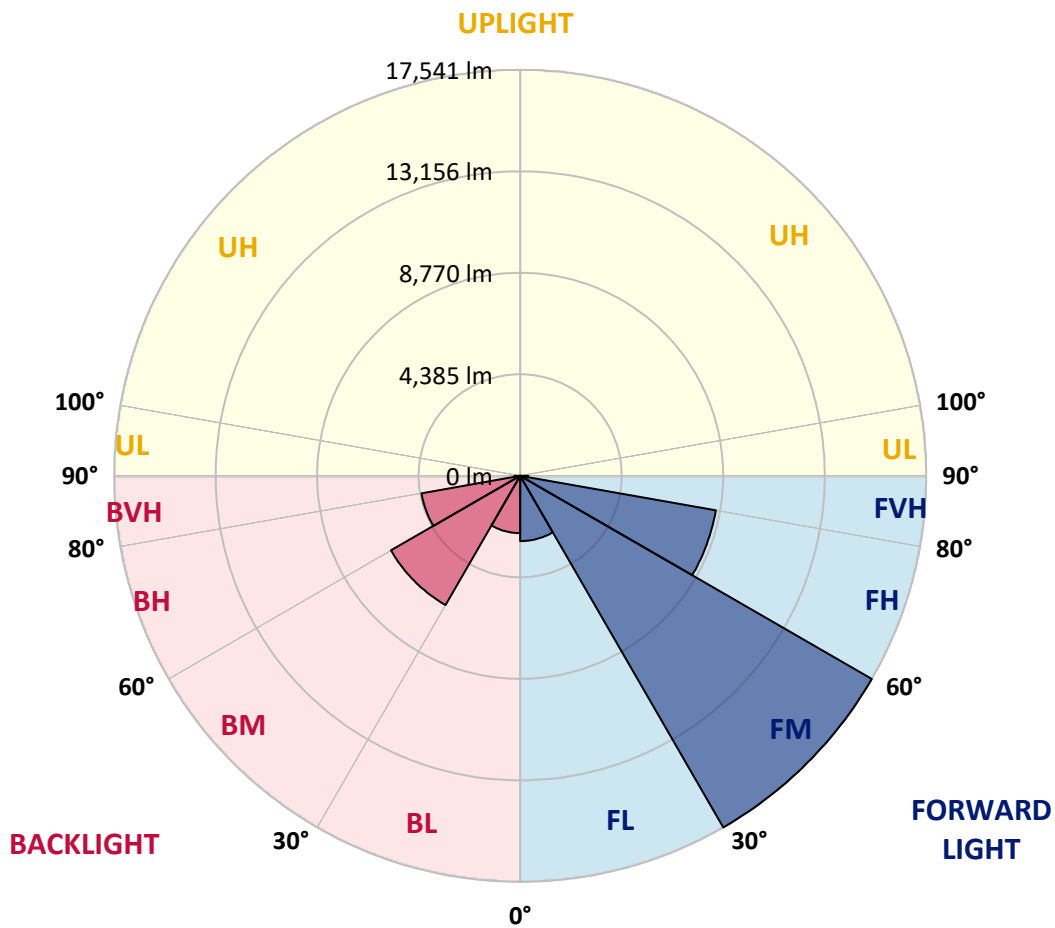
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2821.1	6.6			
FM (30°-60°)	17540.8	41.0			
FH (60°-80°)	8584.4	20.1			G4/12000
FVH (80°-90°)	347.8	0.8			G3/500
BL (0°-30°)	2476.8	5.8	B3/2500		
BM (30°-60°)	6447.5	15.1	B4/8500		
BH (60°-80°)	4332.5	10.1	B4/5000		G4/5000
BVH (80°-90°)	249.0	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°	4716.4	4716.4	4716.4	4716.4	4716.4	4716.4	4716.4	4716.4	4716.4	4716.4	4716.4
2.5°	4685.3	4672.0	4683.1	4683.1	4687.5	4685.3	4700.8	4705.3	4711.9	4725.3	4725.3
5°	4638.7	4636.4	4656.4	4674.2	4691.9	4707.5	4727.5	4756.3	4760.8	4776.3	4796.3
7.5°	4623.1	4609.8	4640.9	4663.1	4705.3	4743.0	4796.3	4845.2	4865.1	4871.8	4909.6
10°	4743.0	4720.8	4749.7	4763.0	4798.5	4836.3	4898.5	4976.2	4998.4	5025.0	5067.2
12.5°	4947.3	4922.9	4965.1	4985.1	5018.4	5051.7	5093.9	5169.4	5180.5	5229.3	5269.3
15°	5227.1	5198.2	5224.9	5249.3	5304.8	5335.9	5378.1	5451.4	5451.4	5489.1	5518.0
17.5°	5606.8	5569.1	5589.0	5597.9	5633.4	5680.1	5751.1	5815.5	5848.8	5835.5	5795.5
20°	6173.0	6126.4	6126.4	6082.0	6068.7	6106.4	6199.7	6288.5	6324.0	6255.2	6157.5
22.5°	7023.5	6956.9	6919.1	6768.1	6708.2	6712.6	6805.9	6914.7	6943.6	6821.4	6601.6
25°	8104.9	8000.5	7949.4	7727.4	7591.9	7474.3	7547.5	7687.4	7727.4	7576.4	7221.1
27.5°	9186.3	9192.9	9144.1	8877.6	8653.3	8438.0	8400.2	8546.8	8589.0	8418.0	7978.3
30°	10702.9	10545.2	10452.0	10132.2	9812.5	9510.5	9355.0	9415.0	9426.1	9221.8	8711.1
32.5°	12010.8	11970.8	11771.0	11491.2	11080.4	10607.4	10347.6	10252.1	10234.4	9943.5	9337.3
35°	13500.7	13478.5	13267.6	12934.5	12490.4	11833.1	11364.6	11091.5	11069.3	10660.7	9956.8
37.5°	15015.1	15015.1	14808.6	14444.5	13984.8	13163.2	12450.4	12017.4	11946.4	11413.4	10587.4
40°	16223.1	16149.8	16187.6	16034.3	15508.1	14635.4	13656.2	13027.8	12932.3	12292.8	11258.0
42.5°	16909.2	16884.8	17111.3	17282.3	17066.9	16369.6	14984.0	14122.5	13989.2	13260.9	12030.8
45°	17062.4	17035.8	17439.9	18066.1	18368.1	18081.7	16427.4	15274.9	15112.8	14273.5	12859.0
47.5°	16709.4	16656.1	17249.0	18237.1	19205.2	19709.3	17990.6	16525.1	16289.7	15259.4	13709.5
50°	15648.0	15596.9	16494.0	17806.3	19487.2	20815.1	19687.1	17850.7	17491.0	16316.3	14568.8
52.5°	13340.9	13365.3	14770.9	16573.9	19116.4	21503.5	21148.2	19247.4	18814.4	17397.7	15374.8
55°	10392.0	10445.3	12172.9	14158.0	17633.1	21399.1	22145.2	20686.3	20255.5	18414.7	16207.5
57.5°	7440.9	7676.3	9295.1	11260.2	14784.2	19744.8	22362.8	22054.2	21636.7	19525.0	17022.5
60°	4823.0	4865.1	6530.5	8511.2	11258.0	16804.9	21920.9	23091.1	22764.7	20657.5	17704.2
62.5°	3091.0	3119.8	4134.6	5953.2	8102.7	12432.7	20433.2	23541.9	23442.0	21405.8	18359.2
65°	2271.6	2249.4	2777.9	3934.8	5458.0	7667.4	17544.3	23324.3	23521.9	21874.3	18901.0
67.5°	1896.3	1865.2	2125.0	2724.6	4021.4	4354.4	12981.1	21909.8	22633.7	21821.0	19298.5
70°	1727.6	1700.9	1858.6	2022.9	3137.6	2915.5	6543.9	19047.6	20162.3	21214.8	19234.1
72.5°	1463.3	1416.7	1632.1	1796.4	2440.3	2236.1	2704.6	14631.0	15989.9	19271.9	18328.1
75°	1134.7	1103.6	1287.9	1581.0	1834.1	1745.3	1709.8	8884.3	10367.6	14904.1	16034.3
77.5°	899.3	857.1	1025.9	1232.4	1649.8	1316.8	1245.7	3825.9	5295.9	9514.9	11997.4
80°	677.3	639.5	779.4	974.8	1267.9	992.6	806.0	1561.0	1996.2	4820.7	6033.1
82.5°	481.9	448.5	544.0	715.0	852.7	890.4	495.2	874.9	983.7	1858.6	1347.9
85°	308.7	288.7	364.2	448.5	541.8	572.9	302.0	457.4	501.8	766.1	561.8
87.5°	168.8	137.7	195.4	208.7	250.9	228.7	144.3	166.5	179.9	277.6	237.6
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°	4716.4	4716.4	4716.4	4716.4	4716.4	4716.4	4716.4	4716.4	4716.4	4716.4	4716.4
2.5°	4734.1	4740.8	4763.0	4769.7	4785.2	4805.2	4818.5	4831.8	4831.8	4845.2	4845.2
5°	4798.5	4814.1	4860.7	4885.1	4925.1	4965.1	4989.5	5018.4	5036.1	5045.0	5049.5
7.5°	4922.9	4947.3	5013.9	5056.1	5124.9	5180.5	5218.2	5258.2	5267.1	5291.5	5282.6
10°	5091.6	5120.5	5196.0	5275.9	5358.1	5426.9	5462.5	5491.3	5502.4	5506.9	5495.8
12.5°	5284.8	5327.0	5424.7	5522.4	5609.0	5669.0	5677.9	5671.2	5640.1	5613.5	5613.5
15°	5522.4	5560.2	5669.0	5775.6	5859.9	5871.0	5815.5	5780.0	5742.3	5735.6	5735.6
17.5°	5806.6	5826.6	5926.6	6030.9	6037.6	5999.8	5917.7	5884.4	5848.8	5824.4	5826.6
20°	6137.5	6130.8	6201.9	6246.3	6199.7	6084.2	5959.9	5904.4	5868.8	5840.0	5842.2
22.5°	6532.8	6481.7	6472.8	6461.7	6337.4	6095.3	5926.6	5855.5	5800.0	5760.0	5773.3
25°	7107.9	6912.5	6777.0	6701.5	6421.7	6035.4	5820.0	5662.3	5557.9	5489.1	5515.8
27.5°	7827.3	7498.7	7156.7	6972.4	6421.7	5913.2	5562.4	5307.0	5136.1	5065.0	5100.5
30°	8513.5	8169.3	7665.2	7298.8	6406.2	5713.4	5147.2	4791.9	4592.0	4521.0	4563.2
32.5°	9099.7	8724.4	8204.8	7656.3	6368.4	5389.2	4632.0	4239.0	4045.8	3961.4	4003.6
35°	9643.7	9244.0	8746.6	8049.4	6268.5	4914.0	4065.8	3766.0	3550.6	3415.2	3459.6
37.5°	10201.0	9725.9	9259.5	8404.7	6088.7	4358.9	3630.5	3375.2	3122.0	2940.0	2988.8
40°	10807.2	10238.8	9808.0	8615.6	5793.3	3830.4	3293.0	3059.9	2791.2	2598.0	2635.8
42.5°	11515.6	10853.9	10418.7	8724.4	5389.2	3455.1	3073.2	2844.5	2591.3	2433.7	2464.8
45°	12255.0	11531.1	10976.0	8722.2	4938.4	3279.7	3002.1	2775.6	2495.9	2331.5	2358.2
47.5°	13030.0	12239.5	11457.9	8580.1	4547.6	3304.1	2962.2	2626.9	2318.2	2158.3	2180.5
50°	13807.2	13014.4	11924.2	8313.6	4381.1	3250.8	2813.4	2418.1	2054.0	1909.6	1918.5
52.5°	14577.7	13838.3	12326.1	7933.9	4212.3	3053.2	2622.4	2147.2	1945.2	1845.2	1845.2
55°	15352.6	14653.2	12763.5	7381.0	3790.4	2822.3	2302.7	2045.1	1858.6	1767.5	1758.6
57.5°	16129.8	15594.7	13178.8	6828.1	3259.7	2538.0	2127.3	1920.7	1772.0	1694.3	1680.9
60°	16938.1	16671.6	13607.3	6319.6	2735.7	2173.9	1998.5	1820.8	1669.8	1583.2	1576.6
62.5°	17770.8	17857.4	13942.6	5664.5	2253.8	1951.8	1883.0	1700.9	1554.4	1472.2	1470.0
65°	18610.1	19000.9	14162.4	4756.3	1827.5	1740.9	1758.6	1569.9	1421.1	1350.1	1347.9
67.5°	19243.0	19824.8	14100.3	3599.5	1498.8	1541.0	1603.2	1432.2	1292.3	1236.8	1239.0
70°	19314.0	19727.1	13487.4	2464.8	1254.6	1345.6	1430.0	1296.8	1152.4	1112.5	1114.7
72.5°	18368.1	18394.7	11779.8	1609.9	1061.4	1181.3	1247.9	1159.1	1019.2	979.2	977.0
75°	15887.8	15212.8	8648.9	1061.4	888.2	1014.8	1076.9	1014.8	879.3	888.2	857.1
77.5°	12037.4	10773.9	5251.5	755.0	741.7	852.7	937.1	892.6	777.2	872.7	768.3
80°	6201.9	5828.9	2342.6	564.0	586.2	681.7	770.5	712.8	615.1	586.2	535.1
82.5°	1421.1	1652.1	923.7	404.1	424.1	490.7	588.4	535.1	441.9	373.0	368.6
85°	497.4	544.0	408.6	253.1	248.7	306.4	399.7	357.5	299.8	239.8	253.1
87.5°	157.7	206.5	153.2	102.1	106.6	137.7	184.3	168.8	139.9	91.0	95.5
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)