

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: P942977

Luminaire Tested: **GALN-SB7B-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942977
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-727-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37169 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

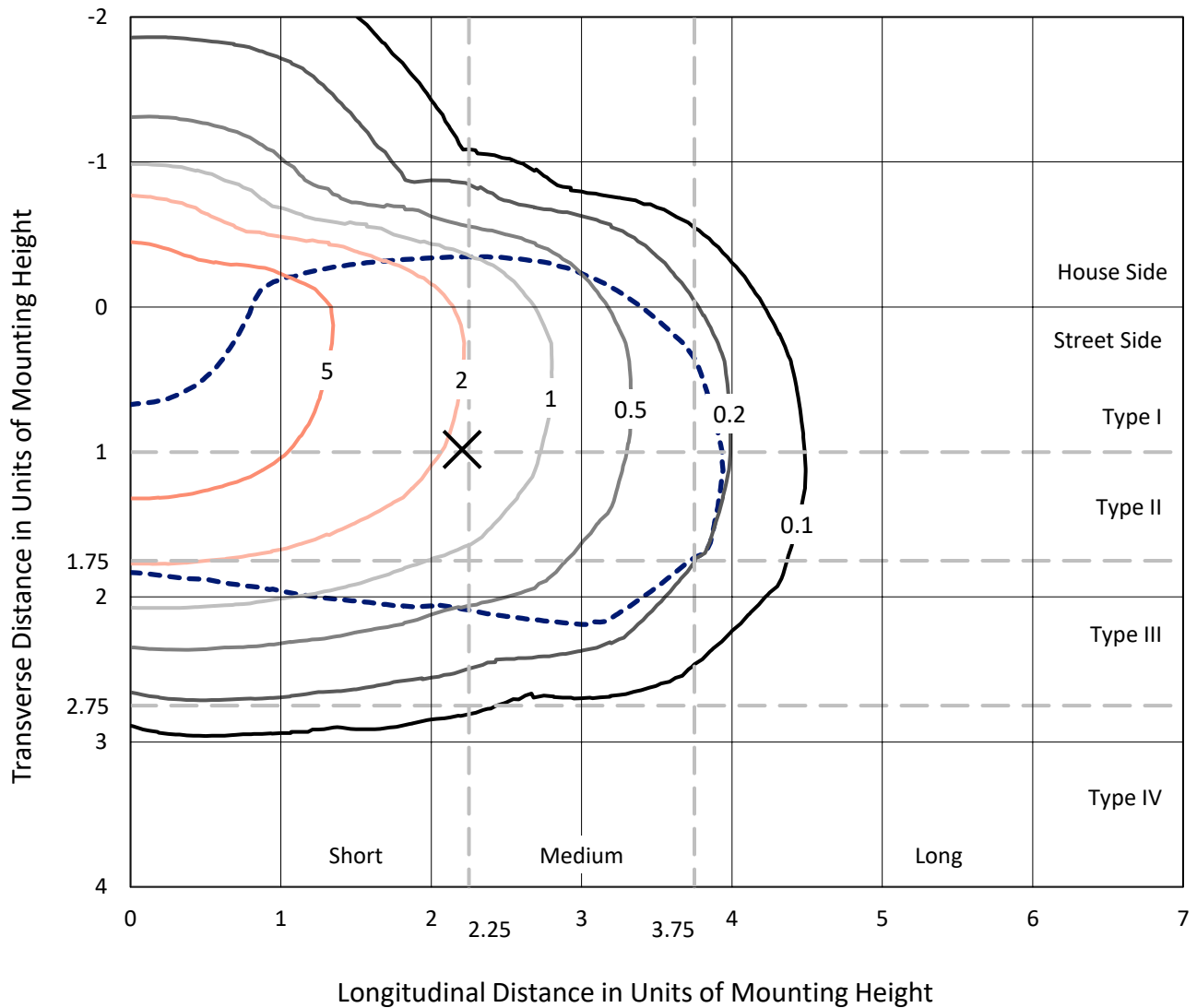
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

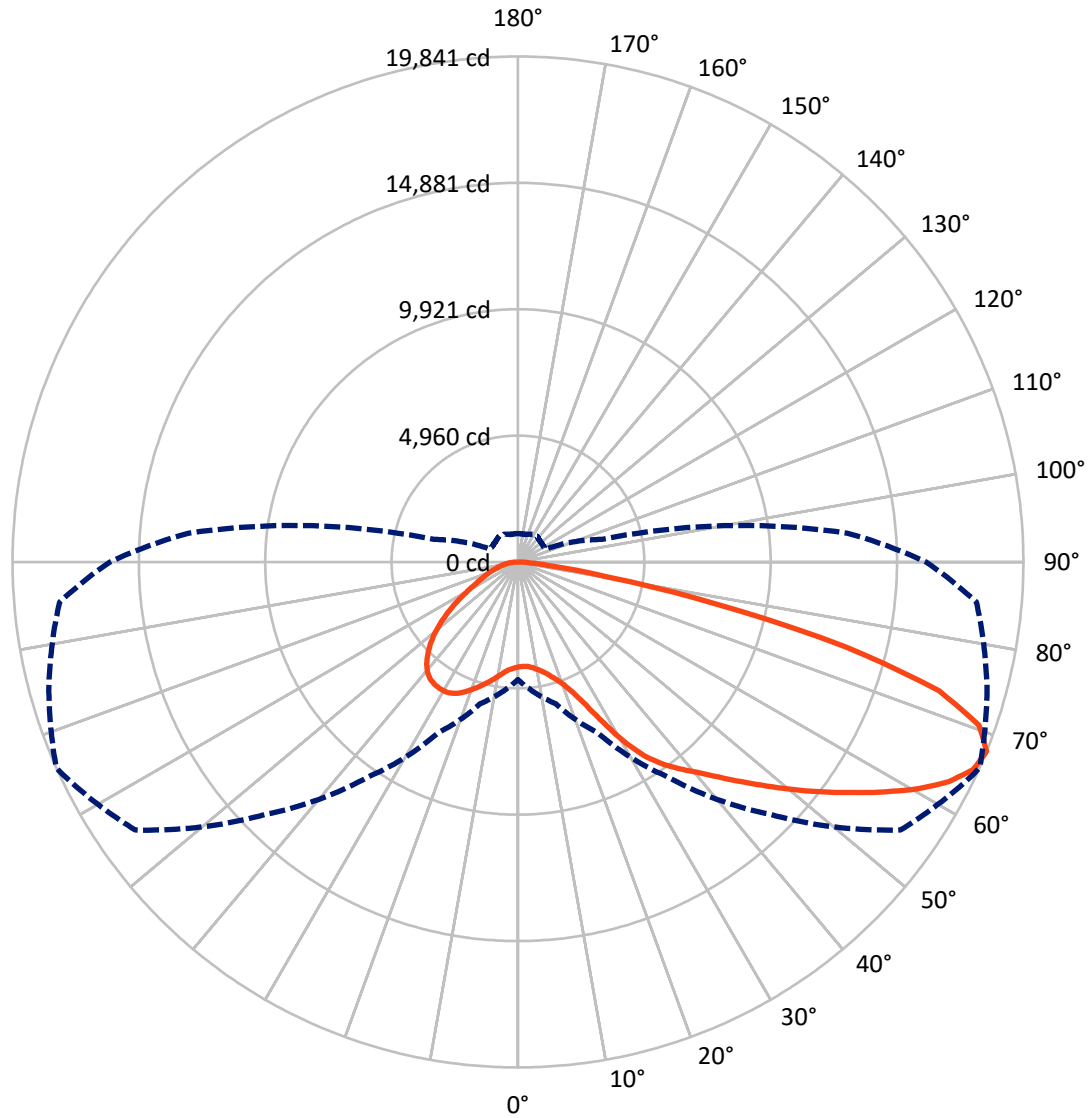
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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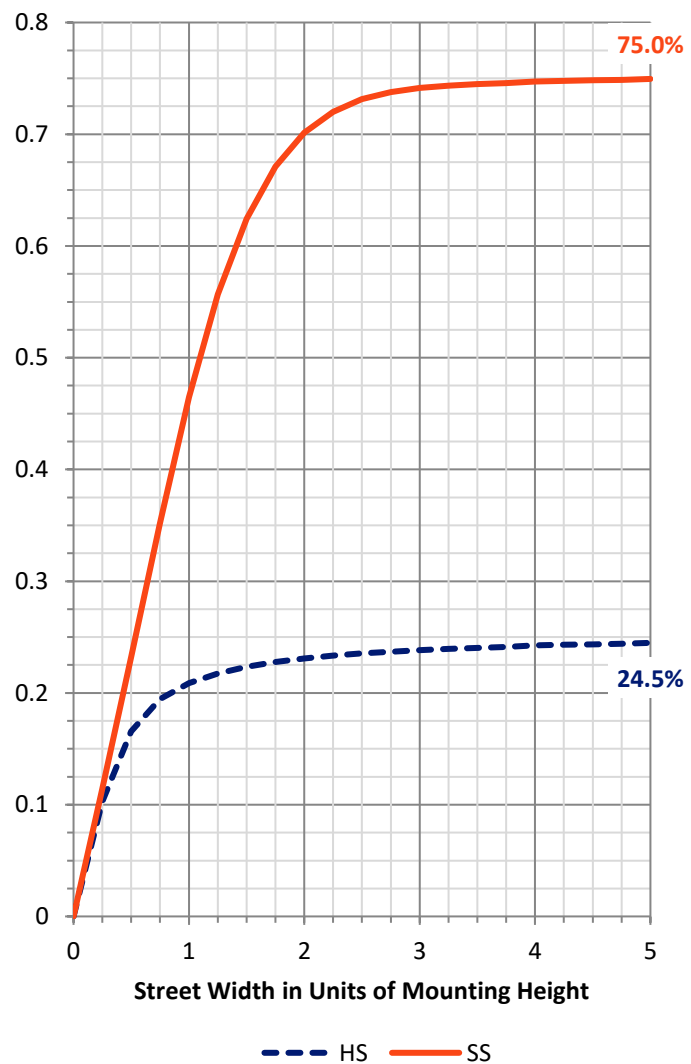
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9242.0	0.0	9242.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	27927.0	0.0	27927.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	37169.0	0.0	37169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.7	1.1
10°-20°	1350.4	3.6
20°-30°	2602.8	7.0
30°-40°	4563.7	12.3
40°-50°	6784.7	18.3
50°-60°	8600.3	23.1
60°-70°	8415.2	22.6
70°-80°	4014.1	10.8
80°-90°	429.0	1.2
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°	37169.0	100.0
0°-180°	37169.0	100.0

Coefficient of Utilization



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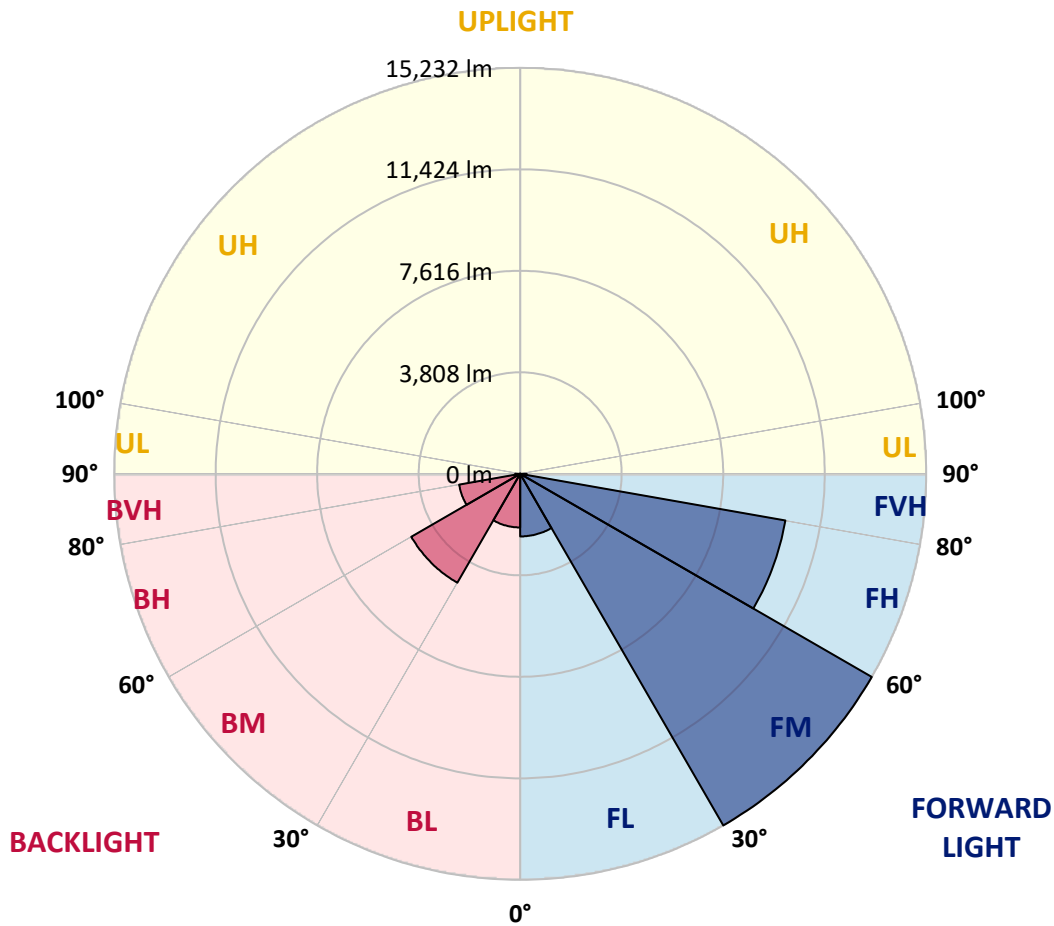
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2348.7	6.3			
FM (30°-60°)	15231.5	41.0			
FH (60°-80°)	10103.6	27.2			G4/12000
FVH (80°-90°)	243.2	0.7			G3/500
BL (0°-30°)	2013.2	5.4	B3/2500		
BM (30°-60°)	4717.2	12.7	B3/5000		
BH (60°-80°)	2325.8	6.3	B3/2500		G3/2500
BVH (80°-90°)	185.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4122.5	4122.5	4122.5	4122.5	4122.5	4122.5	4122.5	4122.5	4122.5	4122.5	4122.5
2.5°	4079.6	4103.0	4097.1	4087.4	4085.4	4089.3	4095.2	4101.1	4099.1	4108.9	4124.5
5°	4067.9	4091.3	4089.3	4089.3	4097.1	4112.8	4122.5	4132.3	4122.5	4134.3	4155.7
7.5°	4075.7	4093.2	4101.1	4108.9	4128.4	4157.7	4181.1	4202.6	4190.9	4204.6	4231.9
10°	4175.3	4188.9	4196.7	4196.7	4210.4	4243.6	4267.0	4306.1	4296.3	4317.8	4353.0
12.5°	4356.9	4370.5	4370.5	4362.7	4372.5	4394.0	4401.8	4444.8	4427.2	4462.3	4497.5
15°	4579.5	4606.8	4585.4	4571.7	4575.6	4597.1	4595.1	4628.3	4610.8	4640.0	4671.3
17.5°	4825.6	4860.7	4825.6	4823.6	4815.8	4839.2	4841.2	4870.5	4839.2	4860.7	4882.2
20°	5116.6	5165.4	5136.1	5145.8	5128.3	5138.0	5147.8	5190.8	5141.9	5157.6	5151.7
22.5°	5526.7	5585.2	5554.0	5591.1	5579.4	5571.6	5569.6	5645.8	5569.6	5575.5	5518.8
25°	6124.2	6194.5	6139.9	6190.6	6190.6	6216.0	6245.3	6343.0	6216.0	6178.9	6032.5
27.5°	7006.9	7077.2	6969.8	7001.1	6991.3	7053.8	7022.6	7264.7	7128.0	7067.5	6772.6
30°	8069.3	8194.3	7991.2	7983.4	7973.6	8073.2	8118.1	8278.3	8139.6	8079.1	7723.6
32.5°	9217.6	9348.4	9106.3	9036.0	8998.9	9059.4	9022.3	9151.2	9055.5	8961.8	8522.4
35°	10432.3	10561.2	10330.7	10194.0	10045.6	9918.7	9785.9	9819.1	9729.3	9586.7	9131.7
37.5°	11580.6	11816.9	11572.8	11426.3	11152.9	10904.9	10533.8	10379.6	10295.6	10164.7	9705.8
40°	12750.4	12885.1	12699.6	12574.6	12277.8	11889.1	11295.5	10969.3	10856.1	10729.1	10340.5
42.5°	13611.6	13740.5	13640.9	13555.0	13322.6	12871.4	12104.0	11695.8	11531.8	11389.2	11059.2
45°	14295.1	14390.8	14328.3	14359.5	14259.9	13822.5	12941.7	12475.0	12305.1	12131.3	11871.6
47.5°	14570.5	14672.0	14771.6	14957.1	15127.0	14804.8	13842.0	13318.7	13139.0	12961.3	12705.4
50°	14539.2	14642.7	14931.7	15326.2	15853.5	15746.1	14791.1	14217.0	14051.0	13847.9	13611.6
52.5°	14289.2	14406.4	14777.5	15433.6	16273.4	16451.1	15757.8	15144.6	14988.4	14746.2	14509.9
55°	13633.1	13703.4	14259.9	15189.5	16373.0	16943.2	16705.0	16132.8	15976.5	15638.7	15380.9
57.5°	12416.4	12518.0	13328.4	14531.4	16123.0	17277.1	17536.9	17171.7	17021.3	16535.0	16265.6
60°	10828.7	10990.8	11918.4	13426.1	15486.4	17275.2	18292.6	18193.0	18068.1	17417.8	17136.5
62.5°	9032.1	9219.6	10112.0	11863.8	14373.2	16785.0	18765.2	19048.4	18984.0	18232.1	17872.8
65°	6936.6	7065.5	7954.1	9842.5	12641.0	15732.4	18819.9	19632.3	19644.0	18851.2	18257.5
67.5°	4618.6	4989.6	5761.0	7385.8	10321.0	14011.9	18339.5	19728.0	19841.3	19064.0	18064.2
70°	2253.6	2741.8	3497.6	4800.2	7385.8	11373.6	17083.8	18943.0	19194.9	18443.0	16912.0
72.5°	935.4	1093.6	1505.7	2368.8	4239.7	7674.8	14560.7	16814.3	17281.1	16341.7	14218.9
75°	630.8	683.5	861.2	1214.7	1931.4	3784.7	10500.6	12537.5	13289.4	12342.2	10088.6
77.5°	486.3	519.5	626.9	849.5	1148.3	1431.5	5620.4	7555.7	7944.3	7354.6	5249.3
80°	382.8	408.2	468.7	619.1	814.4	765.5	1915.8	3423.4	3648.0	3060.2	1687.3
82.5°	332.0	341.8	335.9	419.9	540.9	447.2	628.8	1263.5	1394.4	1011.6	550.7
85°	240.2	267.5	279.3	259.7	287.1	226.5	257.8	447.2	492.1	439.4	310.5
87.5°	97.6	144.5	177.7	167.9	105.5	64.4	80.1	130.8	150.4	164.0	101.5
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°	4122.5	4122.5	4122.5	4122.5	4122.5	4122.5	4122.5	4122.5	4122.5	4122.5	4122.5
2.5°	4126.4	4140.1	4149.9	4161.6	4169.4	4181.1	4204.6	4218.2	4220.2	4229.9	4228.0
5°	4163.5	4183.1	4204.6	4235.8	4271.0	4300.2	4345.2	4376.4	4388.1	4397.9	4395.9
7.5°	4243.6	4271.0	4310.0	4364.7	4415.5	4454.5	4509.2	4546.3	4583.4	4597.1	4599.0
10°	4362.7	4401.8	4458.4	4532.6	4587.3	4638.1	4694.7	4726.0	4763.1	4778.7	4786.5
12.5°	4511.2	4552.2	4626.4	4729.9	4780.7	4815.8	4835.3	4827.5	4835.3	4849.0	4852.9
15°	4681.1	4726.0	4809.9	4921.3	4956.4	4925.2	4882.2	4843.1	4837.3	4841.2	4854.9
17.5°	4882.2	4915.4	5013.0	5106.8	5081.4	4952.5	4858.8	4796.3	4765.0	4755.3	4768.9
20°	5163.4	5163.4	5243.5	5302.1	5132.2	4913.5	4767.0	4665.4	4601.0	4573.6	4567.8
22.5°	5505.2	5473.9	5524.7	5483.7	5122.4	4804.1	4601.0	4425.2	4327.6	4288.5	4282.7
25°	5938.7	5901.6	5887.9	5634.1	5052.1	4630.3	4300.2	4087.4	4001.5	3980.0	3983.9
27.5°	6592.9	6499.2	6321.5	5716.1	4923.2	4356.9	3948.7	3751.5	3702.7	3704.6	3710.5
30°	7463.9	7276.4	6840.9	5729.8	4712.3	3970.2	3589.4	3448.8	3425.4	3435.1	3468.3
32.5°	8270.5	8092.7	7372.1	5667.3	4388.1	3591.3	3267.2	3173.4	3138.3	3150.0	3165.6
35°	8903.2	8854.4	7864.3	5579.4	3989.7	3235.9	2978.1	2898.1	2829.7	2814.1	2825.8
37.5°	9500.8	9481.2	8233.3	5456.4	3595.3	2984.0	2745.8	2640.3	2540.7	2486.0	2488.0
40°	10156.9	10137.4	8475.5	5266.9	3245.7	2765.3	2536.8	2398.1	2275.1	2175.5	2185.3
42.5°	10895.1	10779.9	8590.7	4995.5	2948.9	2579.8	2366.9	2179.4	2017.3	1925.5	1931.4
45°	11701.7	11441.9	8588.8	4649.8	2698.9	2409.9	2185.3	1919.7	1769.3	1683.4	1679.5
47.5°	12557.0	12074.7	8483.3	4267.0	2456.7	2222.4	1904.1	1701.0	1601.4	1548.6	1536.9
50°	13439.7	12666.4	8303.7	3827.6	2208.7	2009.5	1728.3	1589.6	1513.5	1464.7	1447.1
52.5°	14269.7	13203.4	8086.9	3329.7	1956.8	1802.5	1650.2	1542.8	1462.7	1408.0	1384.6
55°	15041.1	13666.3	7780.3	2820.0	1751.7	1663.9	1613.1	1523.2	1431.5	1367.0	1341.6
57.5°	15726.6	13967.0	7251.0	2341.5	1605.3	1568.2	1574.0	1490.0	1384.6	1329.9	1294.8
60°	16296.8	14187.7	6467.9	1898.2	1486.1	1474.4	1513.5	1427.6	1304.5	1242.0	1214.7
62.5°	16638.6	14183.8	5507.1	1554.5	1384.6	1388.5	1433.4	1349.4	1224.5	1165.9	1148.3
65°	16609.3	13836.2	4452.6	1329.9	1286.9	1290.9	1349.4	1263.5	1158.1	1122.9	1121.0
67.5°	16021.4	12988.6	3415.6	1183.4	1179.5	1197.1	1265.5	1204.9	1117.0	1113.1	1119.0
70°	14429.8	11229.1	2460.6	1066.3	1068.2	1093.6	1183.4	1167.8	1095.6	1103.4	1101.4
72.5°	11570.8	8561.4	1652.1	943.2	945.2	986.2	1105.3	1138.5	1074.1	1177.6	1193.2
75°	7706.1	5339.2	1062.4	812.4	814.4	867.1	1037.0	1081.9	1015.5	1173.7	1183.4
77.5°	3702.7	2400.1	769.4	683.5	683.5	732.3	896.4	968.6	865.1	912.0	835.8
80°	1279.1	902.2	605.4	550.7	539.0	572.2	755.8	839.7	746.0	687.4	644.5
82.5°	503.8	468.7	486.3	427.7	388.6	410.1	587.8	693.3	548.8	496.0	494.1
85°	289.0	304.6	343.7	283.2	224.6	251.9	431.6	498.0	414.0	365.2	373.0
87.5°	78.1	107.4	158.2	146.5	101.5	107.4	205.1	275.4	238.3	183.6	189.4
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)