

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: P647934

Luminaire Tested: **GALN-SA5A-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647934  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-835-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15169.8 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

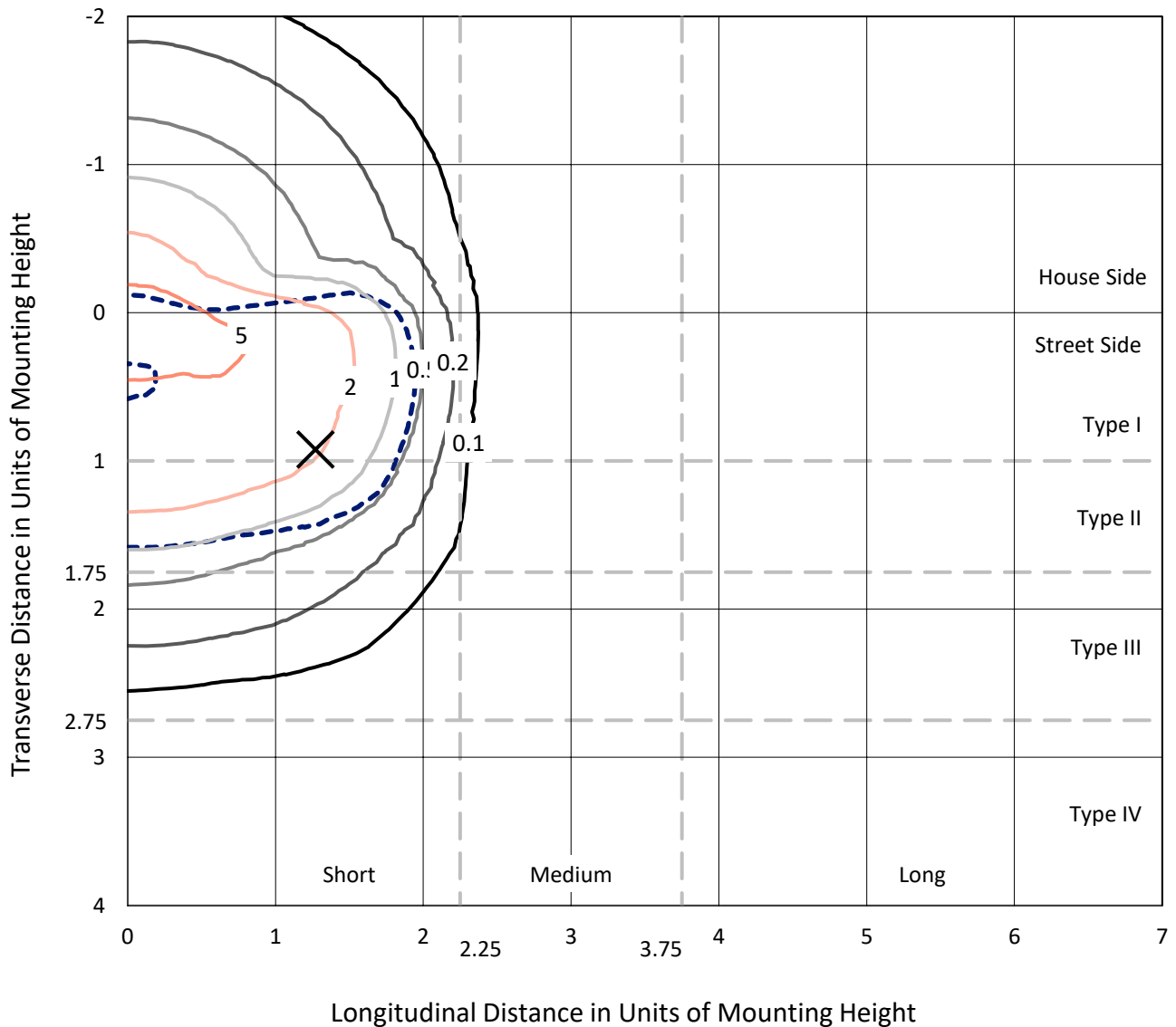
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

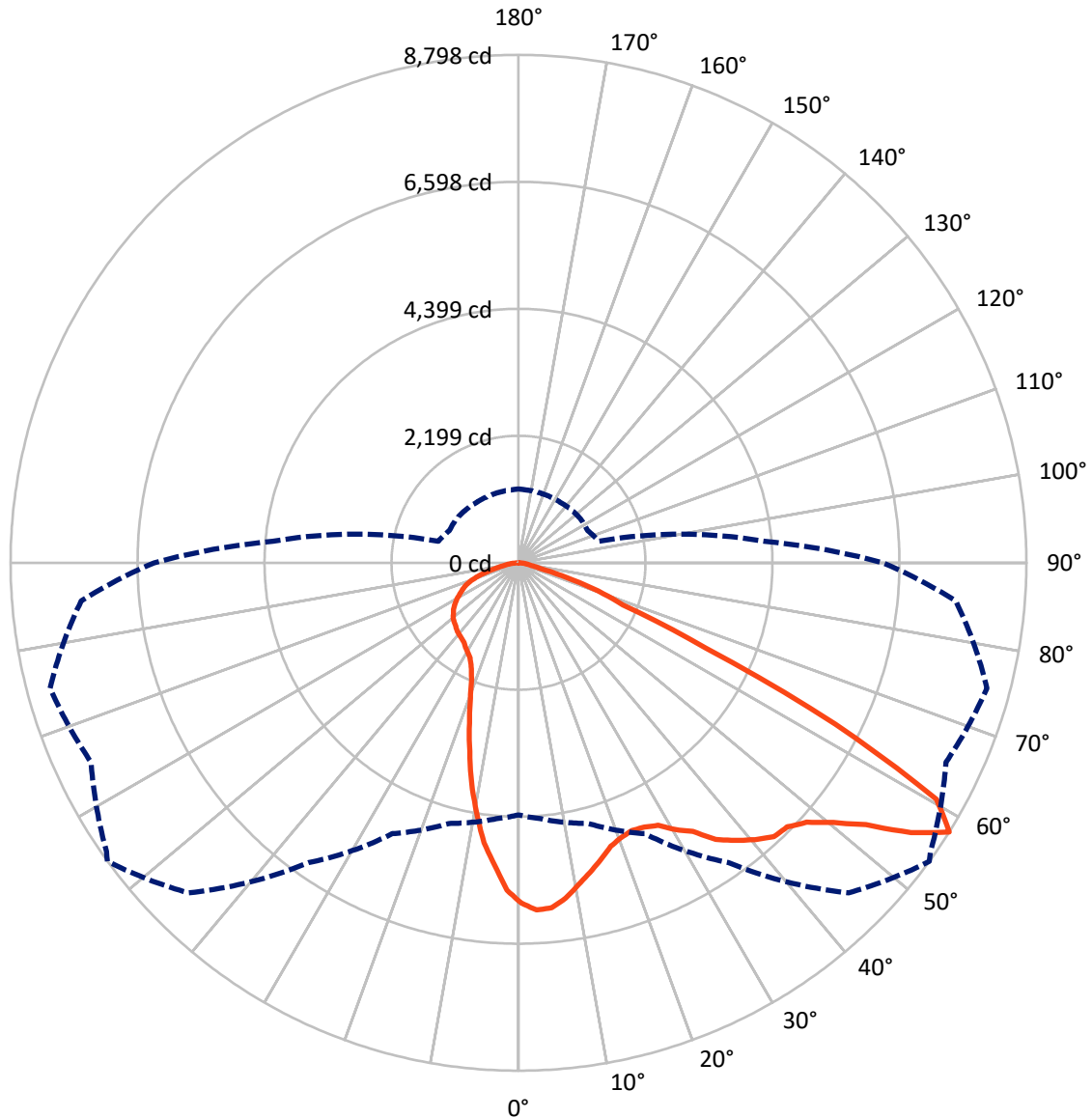
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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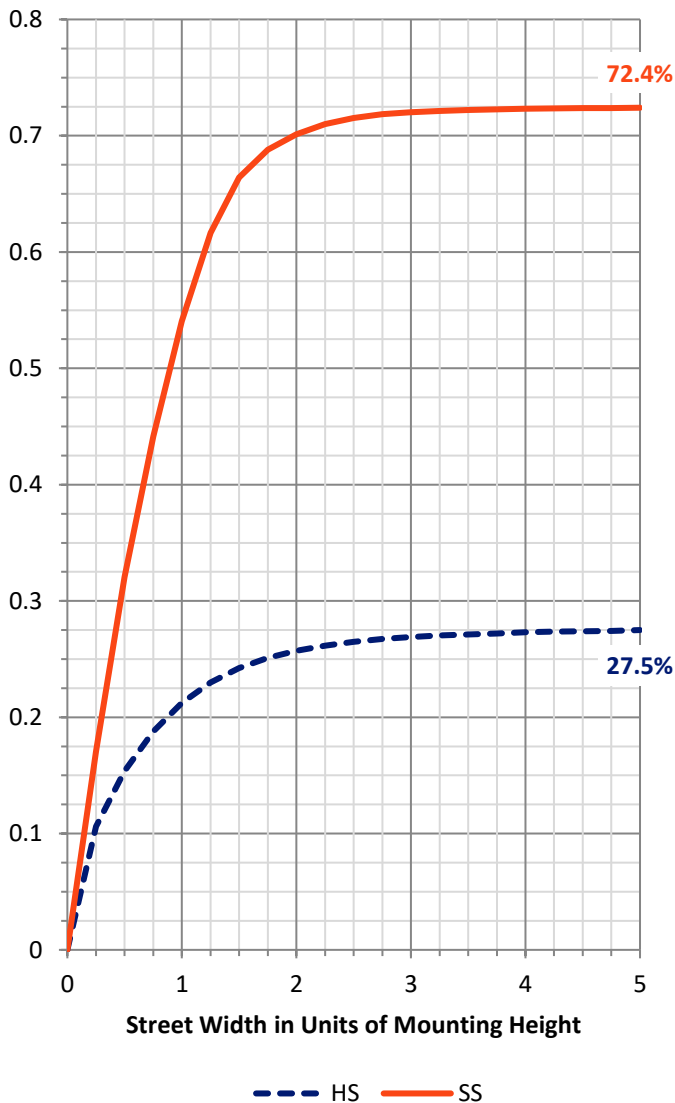
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4196.8	0.0	4196.8
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	10973.0	0.0	10973.0
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	15169.8	0.0	15169.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	508.5	3.4
10°-20°	1177.4	7.8
20°-30°	1654.2	10.9
30°-40°	2312.6	15.2
40°-50°	3130.8	20.6
50°-60°	3813.5	25.1
60°-70°	1986.2	13.1
70°-80°	508.9	3.4
80°-90°	77.6	0.5
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°	15169.8	100.0
0°-180°	15169.8	100.0

**Coefficient of Utilization**

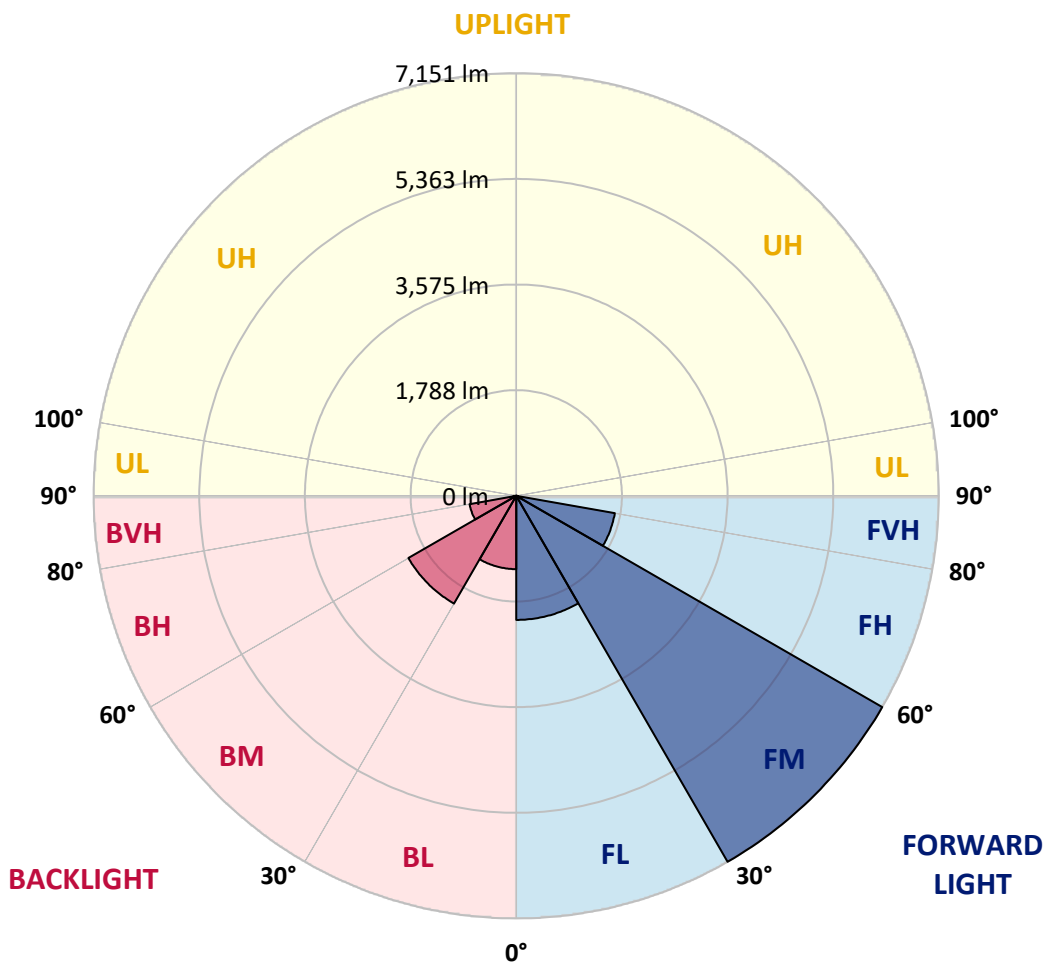


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2099.7	13.8			
FM (30°-60°)	7150.6	47.1			
FH (60°-80°)	1693.4	11.2			G1/1800
FVH (80°-90°)	29.3	0.2			G1/100
BL (0°-30°)	1240.4	8.2	B3/2500		
BM (30°-60°)	2106.3	13.9	B2/2500		
BH (60°-80°)	801.8	5.3	B2/1000		G2/1000
BVH (80°-90°)	48.3	0.3			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°	54°	55°	65°	75°	85°
0°	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4
2.5°	6064.0	6040.6	6044.5	6075.8	6036.7	6021.1	6021.1	5945.1	5951.0	5898.3	5884.6
5°	5923.6	5869.1	5906.1	5952.9	5960.7	5976.3	6001.6	5982.1	5927.5	5871.0	5779.3
7.5°	5557.1	5605.8	5619.4	5652.6	5722.8	5787.2	5867.1	5812.5	5810.6	5754.0	5699.4
10°	5235.4	5206.1	5280.2	5328.9	5445.9	5553.2	5676.0	5670.2	5699.4	5635.1	5541.4
12.5°	4915.6	4892.2	4927.3	5038.4	5202.2	5358.1	5504.4	5449.8	5605.8	5594.1	5393.3
15°	4576.3	4593.9	4644.5	4747.9	4962.3	5149.6	5334.8	5336.8	5475.2	5522.0	5252.9
17.5°	4338.4	4318.9	4383.2	4537.3	4728.4	4952.6	5163.2	5206.1	5418.6	5445.9	5210.0
20°	4160.9	4188.3	4272.1	4350.1	4570.4	4841.4	5079.3	5095.0	5406.9	5481.0	5141.7
22.5°	4118.1	4102.5	4129.8	4256.5	4437.9	4732.3	5034.5	5093.0	5405.0	5469.3	5013.1
25°	4073.2	4123.9	4121.9	4248.7	4381.3	4644.5	5071.6	5135.9	5508.3	5529.8	5030.6
27.5°	4174.6	4168.8	4223.3	4233.1	4396.9	4667.9	5149.6	5198.3	5679.9	5662.3	5044.2
30°	4276.0	4246.8	4280.0	4395.0	4471.0	4802.5	5364.0	5360.1	5902.2	5890.5	5087.2
32.5°	4400.8	4387.1	4408.6	4510.0	4638.7	4981.8	5545.4	5660.4	6128.4	6202.5	5235.4
35°	4424.2	4480.7	4531.5	4667.9	4851.2	5272.4	5886.6	5982.1	6389.7	6621.7	5518.0
37.5°	4572.4	4593.9	4712.8	4954.6	5122.2	5660.4	6103.0	6163.5	6627.5	6890.8	5816.4
40°	4730.3	4755.7	4935.1	5188.5	5418.6	5913.9	6305.8	6325.3	6703.6	7097.4	6011.4
42.5°	4944.8	4968.2	5145.6	5463.5	5771.6	6130.3	6485.2	6506.7	6697.7	7335.3	6321.4
45°	5167.1	5223.6	5432.3	5793.0	6069.9	6383.8	6526.1	6613.9	6752.4	7547.9	6573.0
47.5°	5479.0	5531.7	5703.3	6056.3	6379.9	6606.1	6715.2	6801.1	6883.0	7733.1	6734.8
50°	5810.6	5820.3	6028.9	6348.7	6586.6	6857.6	7068.2	7097.4	7054.5	7947.6	7009.7
52.5°	6054.3	6085.5	6247.3	6559.3	6914.2	7247.6	7536.1	7567.4	7483.5	8027.6	7103.3
55°	5650.7	5633.1	5896.4	6311.7	7134.5	7828.7	8247.9	8271.3	7795.5	8275.1	7409.5
57.5°	4367.7	4451.5	4675.8	5176.9	6338.9	8086.0	8797.7	8713.9	8169.9	8399.9	7604.4
60°	3174.4	3154.9	3305.0	3640.4	4777.2	6968.8	8318.0	8403.9	7863.7	7571.3	6270.7
62.5°	2585.5	2558.2	2569.9	2581.6	3082.7	4625.0	6157.6	6155.7	6056.3	5442.0	4229.2
65°	2066.8	2131.2	2137.0	2224.8	2289.1	2763.0	3568.2	3759.3	3273.8	2684.9	1947.9
67.5°	1557.9	1534.5	1612.5	1924.5	2045.4	1994.7	1947.9	1969.3	1400.0	1010.0	951.5
70°	918.4	908.6	1002.2	1341.5	1684.7	1585.3	1468.2	1470.2	961.3	705.9	785.8
72.5°	503.1	501.1	520.6	680.5	957.4	994.4	881.3	908.6	573.2	571.3	614.2
75°	280.8	274.9	269.1	300.3	345.1	364.6	372.4	376.3	393.8	440.7	458.2
77.5°	103.4	99.4	99.4	115.0	146.3	183.3	232.0	235.9	278.8	319.8	337.3
80°	35.1	39.0	52.6	72.1	97.5	130.6	157.9	161.8	196.9	224.3	230.0
82.5°	21.5	23.4	35.1	50.7	70.2	91.6	117.0	118.9	146.3	163.8	171.6
85°	9.8	11.7	19.5	31.2	44.9	60.4	62.4	62.4	60.4	62.4	58.5
87.5°	0.0	0.0	3.9	3.9	3.9	5.9	7.8	5.9	9.8	11.7	11.7
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°	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4
2.5°	5843.7	5822.2	5756.0	5697.4	5679.9	5601.9	5486.9	5500.5	5416.7	5455.7	5414.8
5°	5763.7	5691.6	5522.0	5449.8	5260.7	5174.9	5116.4	4970.2	4901.9	4888.3	4829.8
7.5°	5559.0	5514.2	5301.6	5106.6	4905.8	4734.3	4513.9	4363.7	4256.5	4227.3	4141.4
10°	5397.2	5297.8	5003.3	4706.9	4420.3	4121.9	3835.4	3611.1	3502.0	3375.2	3332.3
12.5°	5237.3	5087.2	4689.4	4309.2	3938.7	3562.3	3215.3	2942.4	2704.4	2647.9	2628.4
15°	5137.9	4876.6	4408.6	3950.4	3423.9	2932.6	2585.5	2406.1	2259.9	2199.4	2242.4
17.5°	5007.2	4703.0	4139.6	3529.2	2950.1	2497.8	2207.2	2096.1	2043.5	2049.3	2031.7
20°	4843.4	4539.3	3786.6	3147.0	2527.0	2166.2	2000.6	1959.6	1967.4	1981.1	1975.2
22.5°	4726.4	4340.3	3531.2	2757.1	2183.9	1983.0	1914.7	1885.5	1910.8	1922.6	1912.8
25°	4636.8	4170.7	3221.2	2412.0	1985.0	1879.7	1848.4	1846.5	1885.5	1901.1	1891.3
27.5°	4554.9	4012.8	2913.1	2148.7	1852.3	1799.7	1789.9	1813.3	1838.7	1854.3	1867.9
30°	4506.1	3891.9	2624.5	1928.4	1786.0	1760.7	1743.2	1764.6	1778.3	1793.9	1786.0
32.5°	4552.9	3806.1	2345.6	1803.6	1731.4	1706.2	1729.5	1715.9	1739.3	1752.9	1731.4
35°	4699.2	3730.1	2146.8	1737.3	1669.0	1678.8	1682.7	1676.9	1686.6	1674.9	1700.3
37.5°	4843.4	3702.7	1963.5	1680.8	1639.8	1639.8	1635.9	1624.3	1643.8	1639.8	1651.5
40°	5026.7	3720.3	1807.5	1620.3	1612.5	1608.6	1593.0	1591.1	1583.3	1585.3	1589.1
42.5°	5186.6	3759.3	1717.8	1581.3	1587.1	1595.0	1565.8	1542.4	1552.1	1532.6	1532.6
45°	5356.3	3794.4	1637.9	1554.0	1548.1	1546.3	1522.9	1509.2	1501.4	1503.4	1520.9
47.5°	5623.3	3845.1	1577.4	1517.0	1520.9	1491.6	1485.8	1468.2	1476.0	1487.7	1489.7
50°	5812.5	3952.3	1530.6	1474.1	1487.7	1468.2	1433.1	1425.4	1425.4	1444.9	1441.0
52.5°	5945.1	4102.5	1485.8	1427.3	1433.1	1417.5	1405.9	1388.3	1376.6	1403.9	1417.5
55°	6350.7	4352.1	1474.1	1388.3	1386.4	1370.7	1349.3	1331.7	1325.9	1329.8	1357.1
57.5°	6311.7	4274.1	1437.0	1320.1	1316.1	1294.7	1273.2	1267.4	1265.5	1269.3	1277.2
60°	5124.2	3156.8	1283.0	1242.1	1236.2	1232.3	1210.8	1187.4	1175.8	1187.4	1177.7
62.5°	3390.8	2113.6	1130.9	1148.4	1152.3	1142.6	1107.5	1084.1	1088.0	1101.7	1080.2
65°	1665.2	1242.1	1025.7	1072.4	1076.3	1049.0	1015.9	988.5	974.9	986.7	976.9
67.5°	951.5	949.5	939.8	988.5	986.7	959.3	906.7	883.3	859.9	863.8	857.9
70°	807.3	822.9	842.4	871.6	869.6	838.4	776.0	758.5	725.4	721.5	711.7
72.5°	635.6	663.0	705.9	727.3	709.7	670.7	629.8	600.6	571.3	553.7	559.6
75°	471.8	510.8	534.2	547.9	520.6	499.2	466.0	430.9	395.8	380.2	374.4
77.5°	343.2	354.9	376.3	386.1	368.6	347.1	327.6	292.5	259.3	237.9	232.0
80°	239.8	247.7	263.2	263.2	263.2	253.5	228.2	193.0	171.6	152.1	148.2
82.5°	167.7	175.5	191.1	183.3	181.3	169.6	154.0	126.8	103.4	89.7	85.8
85°	58.5	64.4	78.0	93.6	99.4	97.5	87.8	70.2	54.6	44.9	41.0
87.5°	13.6	13.6	15.6	13.6	13.6	15.6	13.6	13.6	13.6	9.8	7.8
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)