

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: P647985

Luminaire Tested: **GALN-SA6A-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-835-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17997.2 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

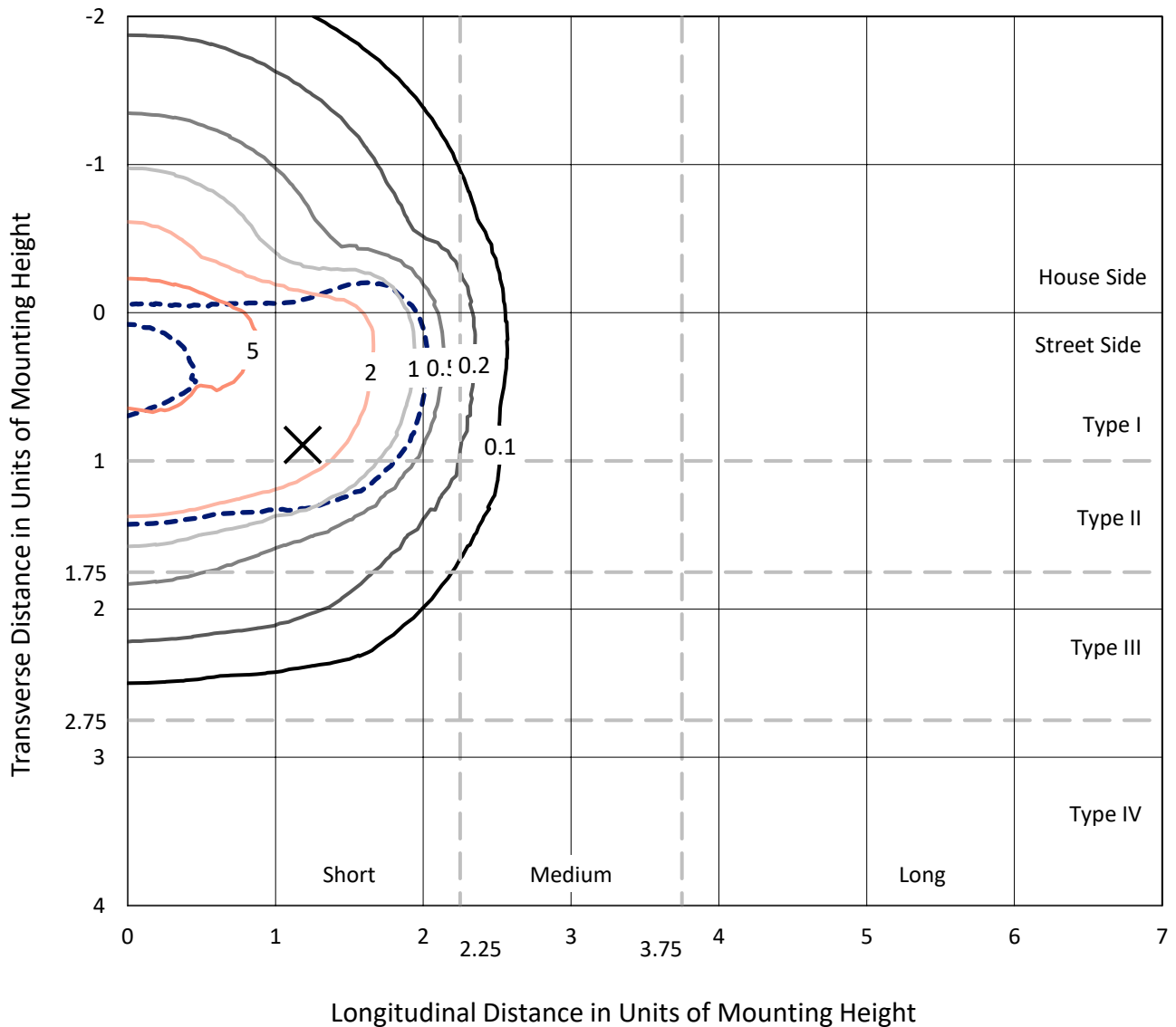
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

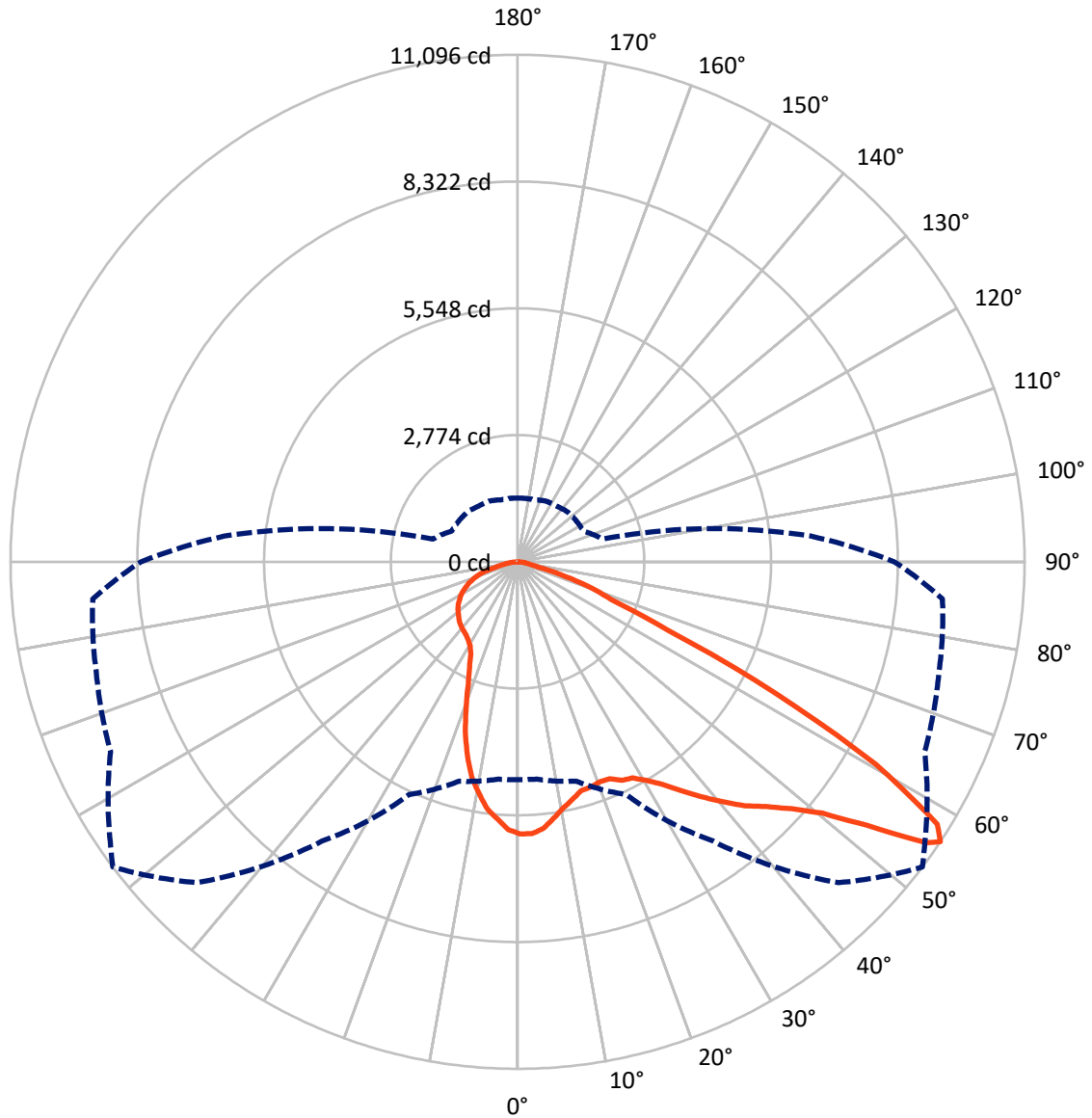
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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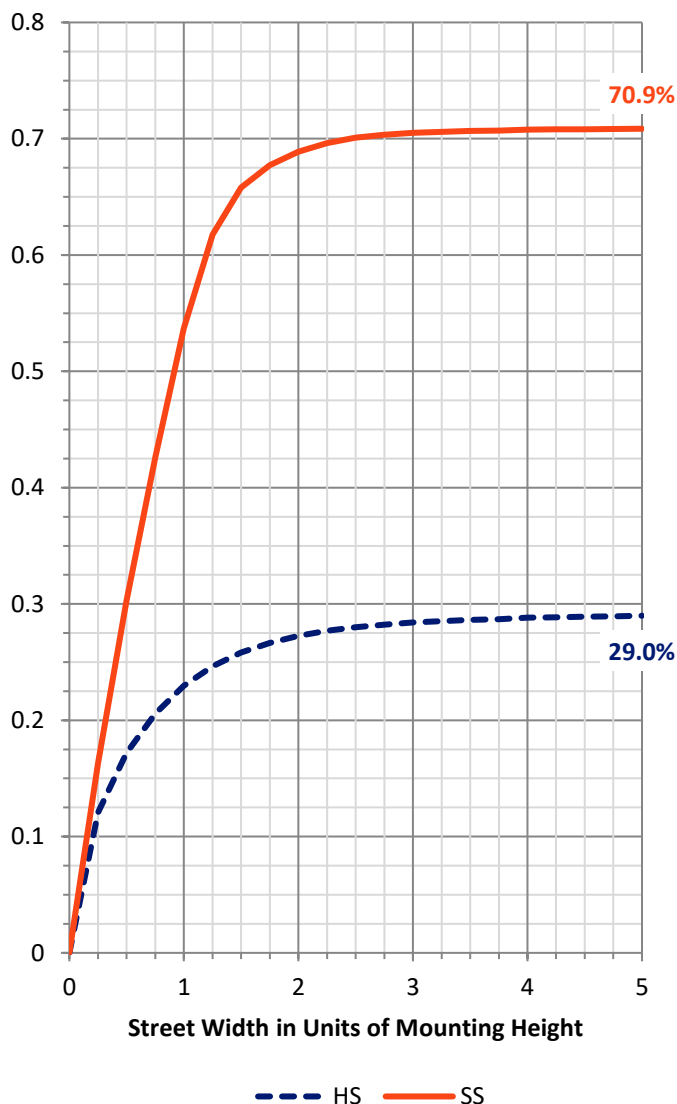
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5252.0	0.0	5252.0
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	12745.3	0.0	12745.3
	% Fixture	70.8	0.0	70.8
Total	Lumens	17997.2	0.0	17997.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.1	2.9
10°-20°	1316.5	7.3
20°-30°	1941.3	10.8
30°-40°	2773.8	15.4
40°-50°	3817.7	21.2
50°-60°	4511.5	25.1
60°-70°	2404.3	13.4
70°-80°	610.0	3.4
80°-90°	95.1	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°	17997.2	100.0
0°-180°	17997.2	100.0

Coefficient of Utilization



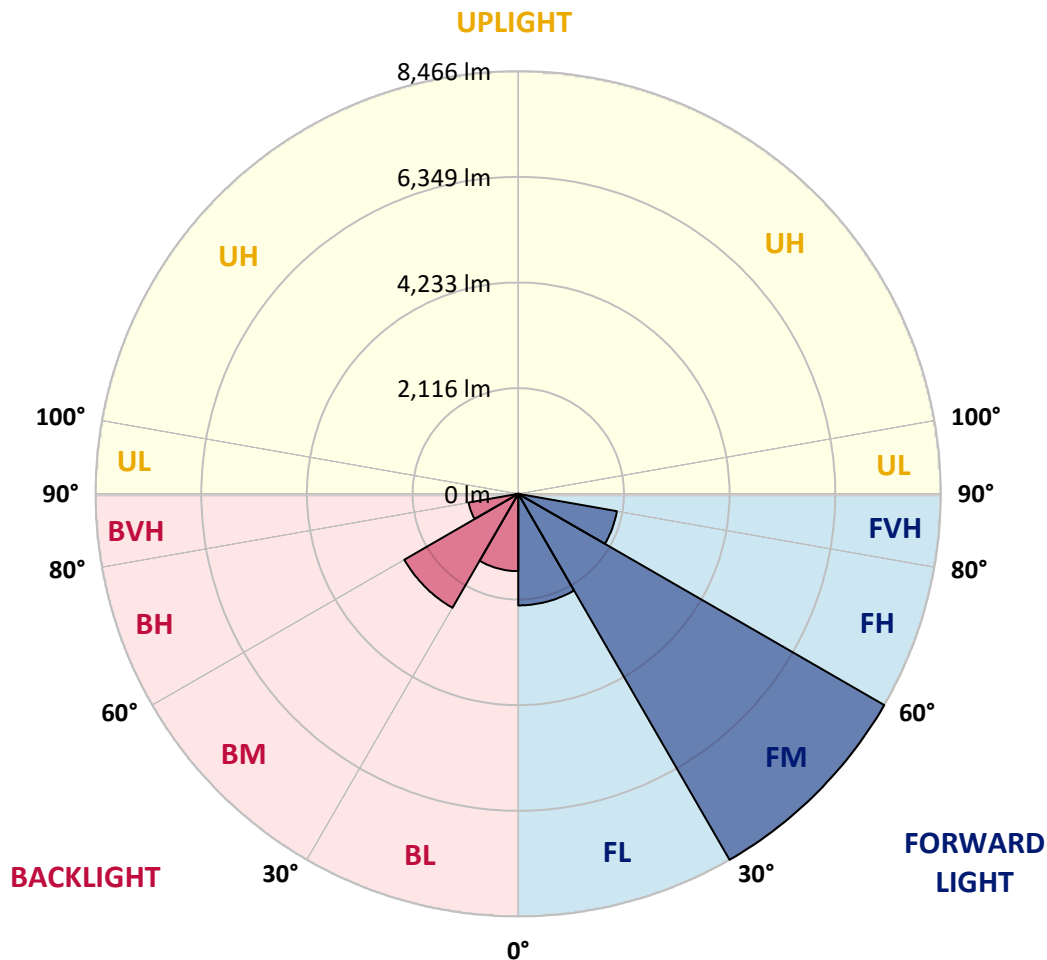
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2235.9	12.4			
FM (30°-60°)	8465.6	47.0			
FH (60°-80°)	2005.6	11.1			G2/5000
FVH (80°-90°)	38.2	0.2			G1/100
BL (0°-30°)	1549.0	8.6	B3/2500		
BM (30°-60°)	2637.4	14.7	B3/5000		
BH (60°-80°)	1008.7	5.6	B3/2500		G3/2500
BVH (80°-90°)	56.9	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2
2.5°	5880.3	5829.5	5859.6	5848.0	5942.7	5970.4	5956.5	5968.0	6021.2	5995.7	5942.7
5°	5494.8	5566.3	5580.2	5614.8	5670.3	5778.8	5864.1	5887.2	5912.7	6030.4	6018.8
7.5°	5143.8	5192.3	5166.9	5268.5	5388.5	5564.0	5667.9	5686.4	5919.6	5984.2	6032.7
10°	4922.2	4873.7	4989.1	5016.8	5153.1	5353.9	5478.6	5554.8	5767.2	6023.5	6053.5
12.5°	4716.7	4700.6	4769.8	4848.3	5000.7	5208.5	5335.4	5365.5	5693.3	5963.4	6104.3
15°	4564.3	4545.9	4615.2	4672.9	4850.6	5035.3	5196.9	5282.4	5612.5	5928.8	6060.4
17.5°	4444.3	4442.0	4481.3	4585.1	4767.5	4922.2	5183.1	5187.7	5571.0	5981.9	6097.4
20°	4437.3	4435.1	4442.0	4557.5	4723.7	4912.9	5139.2	5180.8	5571.0	5944.9	6099.6
22.5°	4495.1	4458.2	4499.7	4573.6	4693.6	4929.1	5155.4	5247.7	5704.9	6127.4	6203.6
25°	4587.4	4596.7	4619.8	4645.1	4714.4	4966.1	5298.6	5374.7	5861.9	6284.4	6346.7
27.5°	4755.9	4751.3	4760.6	4774.4	4834.5	5000.7	5356.3	5552.5	6189.7	6563.7	6501.4
30°	5003.0	4986.8	5023.8	5072.3	5016.8	5111.5	5547.9	5695.6	6494.4	6845.4	6674.5
32.5°	5226.9	5287.0	5356.3	5377.0	5310.1	5328.5	5801.8	5951.9	6748.4	7191.7	6887.0
35°	5506.3	5554.8	5647.2	5711.8	5700.2	5644.8	6148.1	6346.7	7115.5	7445.6	7110.9
37.5°	5778.8	5836.5	5988.9	6180.5	6074.3	6048.8	6517.5	6681.4	7228.7	7581.9	7274.8
40°	6217.4	6215.1	6478.3	6577.6	6672.2	6628.3	6900.8	6956.2	7288.6	7551.8	7279.4
42.5°	6732.2	6699.9	6967.8	7122.4	7244.8	7249.4	7300.2	7281.7	7316.4	7399.4	7230.9
45°	7221.7	7291.0	7561.0	7838.1	7960.4	7974.3	7637.2	7602.6	7364.8	7355.6	7138.6
47.5°	7819.7	7835.8	8057.5	8422.3	8706.2	8609.2	8073.6	7997.4	7577.2	7648.8	7293.3
50°	7854.3	7974.3	8172.9	8602.3	9475.0	9449.6	8639.2	8496.1	7918.9	8064.4	7725.0
52.5°	7129.4	7101.7	7337.1	8039.0	9417.3	10285.3	9576.6	9234.9	8653.1	8542.3	8424.5
55°	5432.5	5497.1	5704.9	6413.6	8177.5	10296.9	10853.3	10573.9	9438.0	9248.7	9112.6
56°	4765.2	4774.4	4970.7	5617.2	7461.8	9929.8	11095.7	10869.4	9828.2	9539.7	9331.9
57.5°	3950.2	3897.1	3998.7	4351.9	6298.2	9154.1	10830.2	11051.9	10285.3	9853.7	9565.0
60°	3109.8	3098.3	3056.8	3121.4	3980.2	6896.2	9015.5	9514.2	10239.2	9558.2	9161.0
62.5°	2539.6	2481.9	2565.0	2657.3	2765.9	4278.1	6335.2	6628.3	8129.0	7630.3	6882.3
65°	1969.3	1941.6	2045.5	2345.6	2410.3	2717.4	3608.5	3834.8	4799.9	4714.4	4151.1
67.5°	1355.2	1359.8	1449.9	1907.0	2234.8	2207.1	2209.5	2327.2	2505.0	1860.8	1620.7
70°	858.9	856.5	905.0	1228.2	1798.5	1817.0	1724.6	1689.9	1602.3	969.7	1027.4
72.5°	551.8	535.7	561.0	678.8	930.4	1075.8	1108.2	1128.9	928.1	761.9	826.5
75°	311.7	295.5	286.3	316.3	367.1	424.8	466.4	480.2	537.9	577.1	611.8
77.5°	94.7	85.4	103.9	138.5	182.4	244.7	297.9	307.1	362.5	408.6	443.3
80°	41.6	46.2	64.7	92.3	129.3	173.1	210.1	223.9	260.9	295.5	304.7
82.5°	25.4	27.7	43.8	62.3	90.0	122.4	150.1	154.7	191.6	219.3	226.3
85°	9.2	11.5	23.1	37.0	57.7	78.5	78.5	85.4	78.5	78.5	85.4
87.5°	0.0	0.0	2.3	4.6	4.6	6.9	9.2	9.2	11.5	13.9	16.1
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°	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2
2.5°	5970.4	5958.8	5940.4	5873.4	5866.5	5845.7	5730.2	5711.8	5730.2	5674.9	5679.5
5°	5958.8	5993.5	5855.0	5787.9	5663.3	5573.2	5469.3	5416.2	5321.6	5261.6	5328.5
7.5°	6009.6	5995.7	5822.6	5677.1	5490.2	5261.6	5079.2	4975.3	4809.1	4762.9	4797.5
10°	5991.1	5917.3	5714.1	5522.5	5169.2	4968.4	4672.9	4386.6	4229.6	4148.8	4137.2
12.5°	5965.8	5944.9	5605.6	5275.5	4903.7	4481.3	4065.6	3795.5	3539.2	3428.4	3444.7
15°	5995.7	5820.3	5402.4	4984.5	4490.5	3936.4	3488.5	3139.8	2962.1	2890.5	2890.5
17.5°	5981.9	5760.3	5305.5	4659.0	4033.3	3377.6	2885.9	2675.8	2601.9	2601.9	2622.7
20°	5988.9	5799.5	5109.2	4333.5	3493.1	2844.3	2486.5	2410.3	2442.6	2454.2	2465.7
22.5°	6028.1	5670.3	4917.6	3975.6	2992.1	2433.4	2257.9	2260.2	2318.0	2380.3	2368.7
25°	6076.5	5619.4	4684.4	3620.0	2608.9	2232.6	2177.1	2170.2	2214.1	2246.4	2251.0
27.5°	6035.0	5531.7	4446.6	3176.8	2294.9	2098.6	2087.1	2091.7	2105.6	2170.2	2149.4
30°	6171.2	5557.1	4148.8	2805.1	2121.7	2054.7	2040.9	2034.0	2054.7	2073.2	2057.1
32.5°	6339.8	5467.1	3927.1	2447.3	2036.3	2022.4	1994.8	1985.5	1997.0	1978.6	1987.8
35°	6413.6	5450.9	3638.5	2191.0	1969.3	1957.8	1941.6	1939.3	1941.6	1925.5	1911.6
37.5°	6455.2	5527.1	3308.4	2073.2	1927.8	1939.3	1902.4	1897.8	1856.2	1865.4	1872.4
40°	6526.8	5409.4	3040.6	1960.1	1902.4	1879.3	1847.0	1840.0	1812.3	1796.2	1812.3
42.5°	6422.9	5374.7	2777.4	1911.6	1865.4	1840.0	1817.0	1777.7	1768.5	1754.6	1745.4
45°	6339.8	5176.2	2541.9	1851.6	1821.6	1807.7	1763.9	1722.3	1687.7	1701.5	1680.8
47.5°	6402.1	5106.9	2308.8	1800.8	1761.6	1745.4	1701.5	1669.2	1634.6	1618.4	1613.8
50°	6651.4	5236.2	2112.5	1763.9	1710.8	1701.5	1643.8	1606.9	1574.5	1563.0	1567.6
52.5°	7247.1	5589.4	1978.6	1687.7	1662.3	1620.7	1588.4	1542.2	1521.4	1484.5	1507.6
55°	8002.0	6164.3	1944.0	1616.1	1602.3	1565.3	1521.4	1486.8	1447.5	1417.5	1410.7
56°	8244.4	6439.0	1916.2	1588.4	1565.3	1544.5	1486.8	1466.0	1403.7	1396.8	1392.2
57.5°	8440.7	6681.4	1920.9	1535.3	1512.2	1493.7	1459.1	1408.3	1366.7	1341.4	1352.9
60°	7997.4	6254.4	1833.2	1454.5	1449.9	1415.3	1366.7	1343.7	1292.9	1262.9	1255.9
62.5°	5944.9	4245.7	1486.8	1350.6	1348.3	1311.4	1255.9	1230.6	1221.3	1179.7	1179.7
65°	3423.8	2662.0	1285.9	1265.2	1246.7	1209.7	1154.4	1133.5	1110.5	1096.7	1085.1
67.5°	1461.4	1380.6	1168.2	1165.9	1145.1	1098.9	1043.6	1011.2	981.2	953.5	967.3
70°	1059.7	1075.8	1055.1	1043.6	1018.1	960.4	912.0	872.7	826.5	808.1	821.9
72.5°	840.4	875.0	905.0	907.3	877.4	810.3	757.2	704.2	653.3	628.0	639.6
75°	637.2	660.3	690.3	697.3	653.3	607.2	556.4	501.0	461.7	431.7	436.4
77.5°	459.5	454.8	482.5	477.9	457.1	424.8	378.7	327.8	284.0	256.3	258.5
80°	314.0	321.0	337.1	334.7	309.4	288.6	253.9	212.4	180.1	157.0	152.4
82.5°	219.3	230.9	244.7	233.2	212.4	191.6	166.2	136.2	110.8	92.3	87.7
85°	78.5	90.0	103.9	110.8	117.8	113.1	94.7	76.2	55.4	46.2	43.8
87.5°	16.1	18.5	20.7	20.7	20.7	18.5	16.1	16.1	13.9	6.9	6.9
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)