

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: P647142

Luminaire Tested: **GALN-SA8C-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P647142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44483.8 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

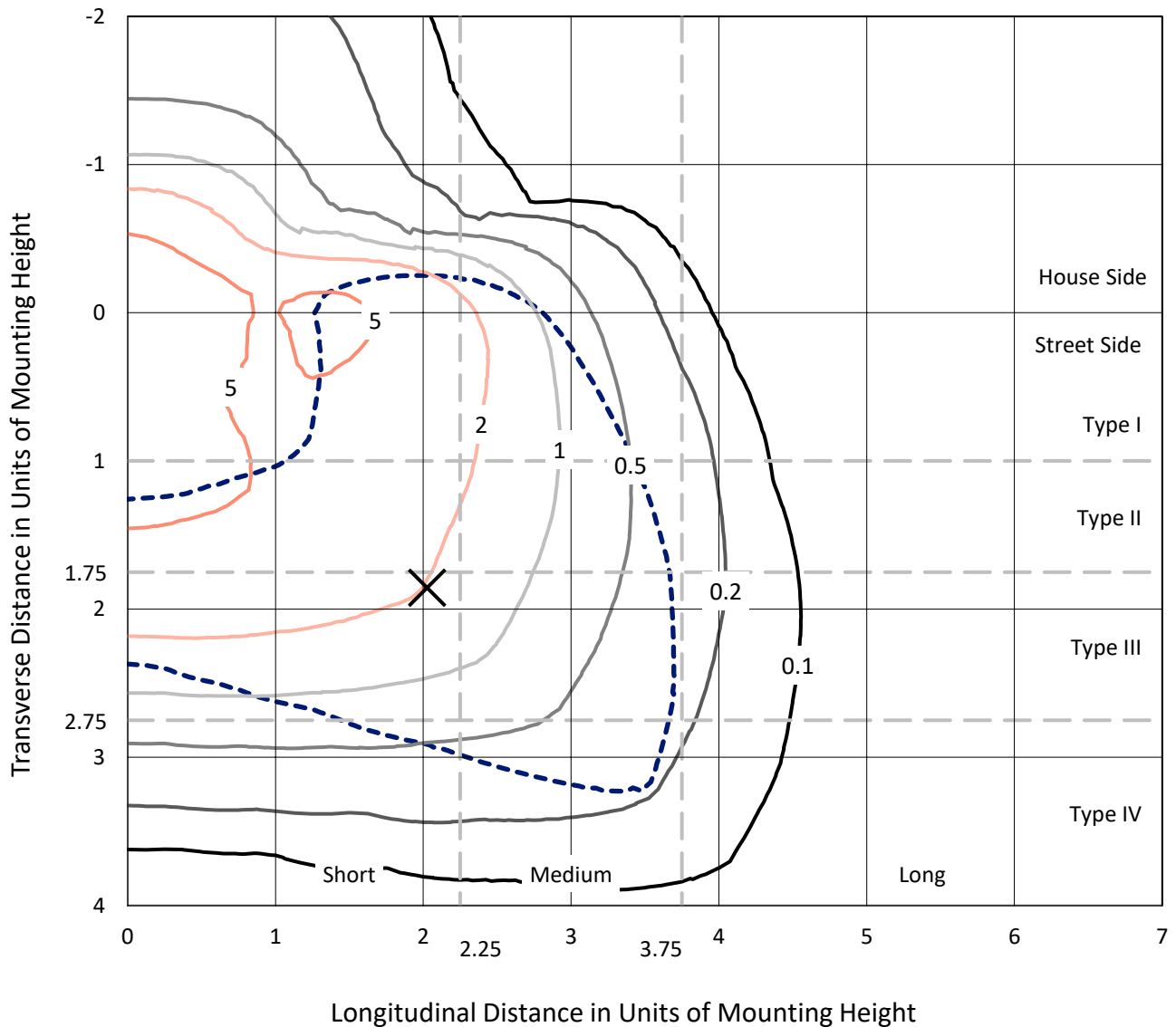
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

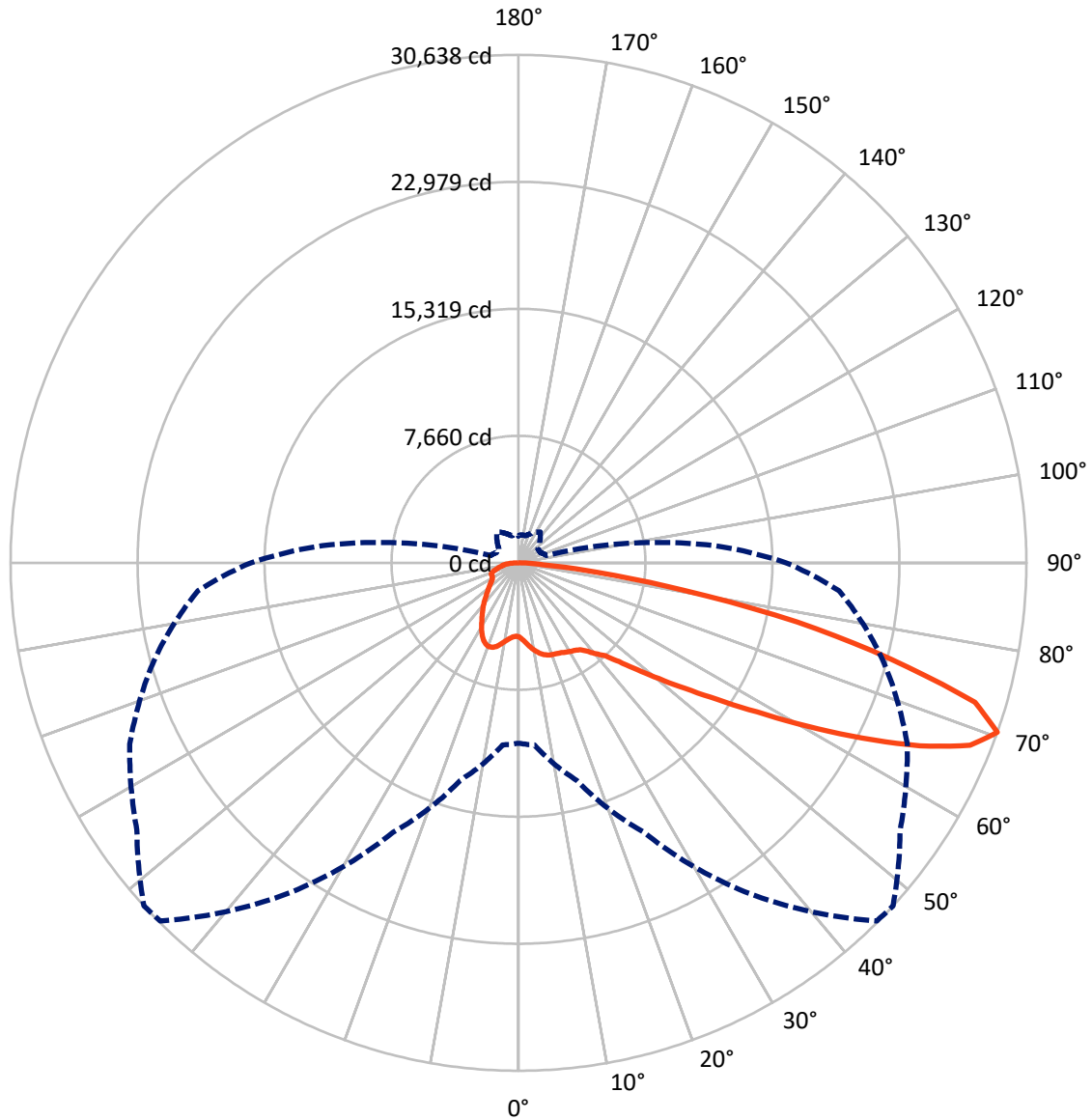
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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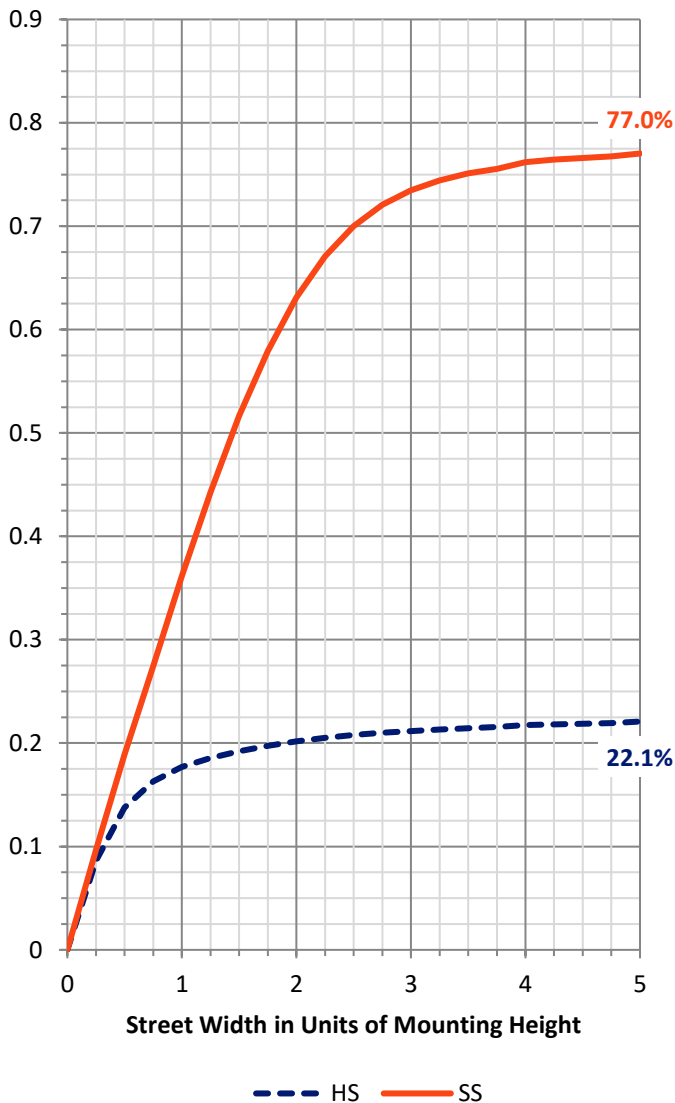
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10072.0	0.0	10072.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	34411.8	0.0	34411.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	44483.8	0.0	44483.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.3	1.0
10°-20°	1538.9	3.5
20°-30°	2559.1	5.8
30°-40°	3627.2	8.2
40°-50°	5354.5	12.0
50°-60°	9274.2	20.8
60°-70°	13100.0	29.4
70°-80°	7530.6	16.9
80°-90°	1039.1	2.3
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°	44483.8	100.0
0°-180°	44483.8	100.0

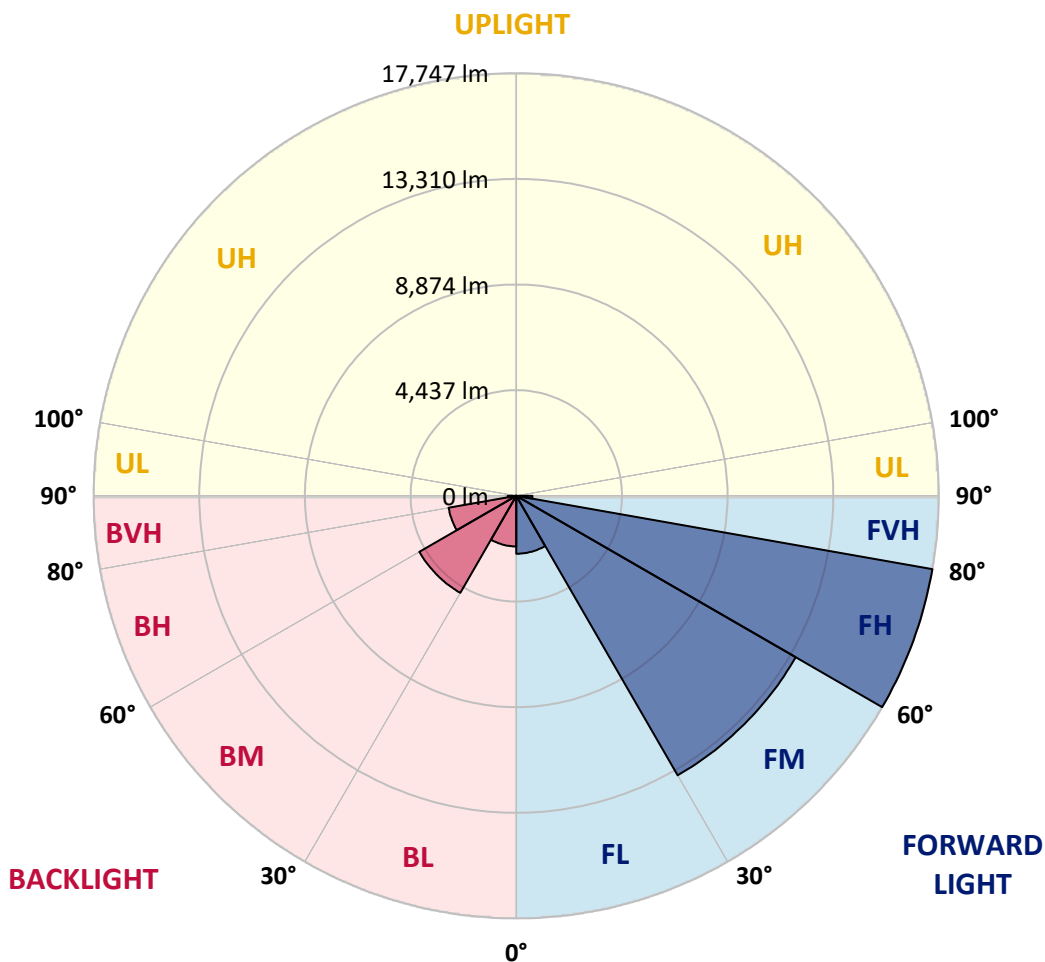


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2432.5	5.5			
FM (30°-60°)	13553.4	30.5			
FH (60°-80°)	17747.2	39.9			G5
FVH (80°-90°)	678.7	1.5			G4/750
BL (0°-30°)	2125.8	4.8	B3/2500		
BM (30°-60°)	4702.4	10.6	B3/5000		
BH (60°-80°)	2883.5	6.5	B4/5000		G4/5000
BVH (80°-90°)	360.3	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	4465.6	4465.6	4465.6	4465.6	4465.6	4465.6	4465.6	4465.6	4465.6	4465.6	4465.6
2.5°	4753.7	4737.0	4734.6	4698.9	4679.9	4644.1	4629.9	4596.5	4556.1	4515.6	4477.5
5°	5127.4	5127.4	5110.7	5060.8	4982.2	4901.3	4865.6	4801.3	4687.0	4594.2	4515.6
7.5°	5510.6	5515.4	5482.1	5408.3	5296.4	5165.5	5132.2	5037.0	4875.0	4739.4	4622.8
10°	5841.5	5841.5	5796.3	5696.3	5555.9	5413.0	5379.7	5272.6	5091.7	4922.6	4770.3
12.5°	6093.9	6093.9	6034.3	5903.4	5751.1	5622.5	5584.4	5482.1	5313.0	5125.0	4932.2
15°	6258.0	6246.1	6179.5	6031.9	5884.3	5772.5	5746.3	5660.6	5505.9	5315.5	5098.8
17.5°	6265.3	6260.5	6196.2	6072.4	5943.8	5867.7	5851.0	5793.9	5672.5	5491.6	5263.1
20°	6127.1	6136.7	6093.9	6005.8	5943.8	5910.6	5903.4	5884.3	5798.7	5629.7	5401.1
22.5°	5979.5	5996.2	5955.7	5908.1	5903.4	5936.7	5941.5	5946.3	5891.5	5727.3	5517.8
25°	5943.8	5955.7	5915.3	5872.4	5898.7	5986.7	6005.8	6024.8	5982.0	5843.9	5655.8
27.5°	6124.8	6115.2	6036.7	5943.8	5960.5	6079.5	6105.8	6127.1	6105.8	5986.7	5827.2
30°	6636.6	6605.6	6448.6	6177.2	6091.4	6174.7	6201.0	6260.5	6260.5	6172.4	6012.9
32.5°	7493.5	7434.0	7146.0	6612.7	6315.2	6265.3	6291.4	6389.0	6439.0	6369.9	6196.2
35°	8533.8	8471.8	8060.0	7343.5	6724.6	6446.1	6439.0	6548.5	6681.8	6527.1	6301.0
37.5°	9578.8	9514.5	9019.4	8214.8	7322.1	6827.0	6784.1	6822.2	6879.4	6596.1	6446.1
40°	10623.7	10547.6	10114.3	9188.3	8052.9	7331.6	7219.7	7048.4	7024.6	6822.2	6727.0
42.5°	11659.2	11590.2	11371.2	10280.9	8928.9	7824.4	7653.0	7357.9	7448.3	7326.9	7243.5
45°	12704.3	12709.0	12475.7	11506.9	9985.8	8733.7	8502.8	8041.0	8255.2	8210.0	8257.6
47.5°	13630.2	13618.3	13534.9	12697.0	11297.4	9904.9	9607.3	9071.7	9438.3	9604.9	9969.2
50°	14527.6	14520.5	14525.2	14046.8	12820.8	11297.4	10968.9	10407.1	11233.2	11811.6	12463.8
52.5°	15813.0	15853.5	15565.5	15439.3	14672.8	12942.3	12580.5	11999.6	13354.1	14265.8	15539.3
55°	17103.2	17069.9	16843.7	16974.7	16610.5	14889.4	14510.9	14049.1	15715.4	16712.8	18626.6
57.5°	17862.6	17874.5	18105.4	18745.6	19002.8	17317.5	16974.7	16617.6	18369.6	19076.5	21373.6
60°	18545.7	18600.5	19264.6	20473.9	21171.3	20300.1	19995.4	19647.8	20804.7	21085.6	23758.8
62.5°	18760.0	18928.9	20088.3	21897.3	23285.1	23665.9	23287.5	22521.0	23123.2	23013.8	25375.1
65°	17691.2	17922.1	20000.2	22430.5	25172.7	26860.5	26620.0	25196.5	25099.0	24439.6	25639.3
67.5°	14877.5	15108.5	17776.8	21311.8	25953.6	29626.5	29386.1	27148.5	26298.7	24572.9	23639.8
70°	10885.6	11030.8	13582.6	17943.5	24384.9	30554.9	30638.2	28100.7	25870.2	22761.4	19409.8
72.5°	6272.4	6593.7	8381.4	12623.3	19921.6	28207.8	28786.2	26120.2	23161.3	18988.5	13570.7
75°	2697.0	2704.2	3875.3	6962.7	13492.1	22673.3	23232.7	21652.1	18188.7	13130.3	7246.0
77.5°	1283.0	1306.8	1704.4	3108.8	7426.8	15665.4	17174.6	15296.5	11633.0	6308.1	2737.4
80°	833.1	849.8	1042.6	1542.5	3642.0	9083.6	10135.8	8824.2	5132.2	2254.3	1180.7
82.5°	504.6	509.4	697.5	942.7	2004.3	4113.3	4848.9	3830.0	2190.0	1349.7	695.1
85°	307.1	309.4	423.7	583.2	1216.4	1421.1	1459.2	1447.3	1285.5	883.1	371.4
87.5°	147.6	152.4	219.0	276.2	478.5	440.4	416.6	483.2	607.0	476.1	159.5
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°	4465.6	4465.6	4465.6	4465.6	4465.6	4465.6	4465.6	4465.6	4465.6	4465.6	4465.6
2.5°	4460.9	4453.7	4437.1	4429.9	4425.2	4427.6	4425.2	4425.2	4427.6	4427.6	4427.6
5°	4482.3	4470.4	4444.2	4444.2	4458.5	4491.8	4522.8	4546.6	4572.7	4570.4	4570.4
7.5°	4575.1	4553.7	4522.8	4532.3	4568.0	4620.3	4675.1	4727.5	4779.8	4784.6	4782.3
10°	4710.8	4689.4	4656.0	4668.0	4725.1	4803.6	4872.7	4948.9	5006.0	5022.6	5017.9
12.5°	4865.6	4822.7	4794.2	4827.4	4917.9	5022.6	5089.3	5146.4	5186.9	5210.7	5201.2
15°	5022.6	4982.2	4948.9	5017.9	5127.4	5225.0	5258.3	5267.9	5275.0	5298.8	5294.0
17.5°	5175.0	5120.3	5108.4	5198.8	5303.6	5346.4	5327.4	5286.9	5256.0	5275.0	5272.6
20°	5310.7	5267.9	5263.1	5353.5	5394.0	5353.5	5272.6	5201.2	5146.4	5151.2	5148.9
22.5°	5439.2	5405.9	5410.7	5448.7	5384.5	5246.4	5113.1	5015.5	4956.0	4967.9	4975.0
25°	5582.1	5548.7	5560.6	5498.7	5286.9	5046.4	4853.7	4770.3	4746.5	4770.3	4787.0
27.5°	5767.7	5746.3	5739.2	5501.1	5113.1	4751.3	4532.3	4501.3	4522.8	4575.1	4601.3
30°	5967.6	5967.6	5929.6	5460.6	4875.0	4396.6	4206.2	4210.9	4284.7	4358.5	4384.7
32.5°	6160.5	6201.0	6082.0	5351.2	4568.0	4051.5	3906.2	3911.0	3975.3	4065.7	4089.5
35°	6320.0	6436.7	6212.9	5151.2	4206.2	3761.1	3651.5	3587.2	3589.7	3658.6	3677.8
37.5°	6539.0	6755.6	6289.1	4853.7	3820.6	3513.5	3389.7	3277.8	3204.0	3175.5	3175.5
40°	6919.8	7238.8	6308.1	4413.3	3456.3	3277.8	3101.7	2968.4	2825.5	2697.0	2673.2
42.5°	7565.0	7967.2	6270.0	3906.2	3127.9	3018.4	2847.0	2682.7	2485.2	2304.2	2290.0
45°	8707.5	8914.6	6167.6	3380.2	2835.1	2768.4	2601.8	2423.2	2213.8	2051.9	2040.0
47.5°	10538.1	10245.2	6031.9	2913.6	2568.5	2549.4	2420.9	2213.8	2004.3	1892.4	1880.5
50°	13211.2	12340.0	6012.9	2575.6	2354.2	2363.7	2259.0	2068.6	1885.3	1792.4	1778.2
52.5°	16429.5	14870.4	6139.0	2337.6	2166.2	2201.9	2149.5	1973.3	1811.5	1732.9	1718.7
55°	19552.6	17146.1	6215.2	2151.9	1990.0	2056.7	2063.8	1916.2	1768.6	1690.1	1680.6
57.5°	22087.8	18860.0	5877.2	1982.9	1837.7	1940.0	1992.4	1882.9	1747.2	1687.7	1678.2
60°	23851.7	19669.3	4915.5	1832.9	1725.8	1847.2	1966.2	1885.3	1799.6	1806.7	1811.5
62.5°	24413.4	19309.9	3687.2	1721.0	1649.6	1816.2	2009.1	1982.9	1894.8	1949.5	1959.1
65°	23482.7	17824.4	2673.2	1632.9	1583.0	1837.7	2137.6	2054.3	1861.5	1901.9	1901.9
67.5°	20366.8	15356.0	2080.5	1552.0	1506.8	1878.1	2266.2	2047.2	1782.9	1830.5	1787.7
70°	16155.8	11878.2	1732.9	1461.5	1425.8	1818.6	2278.1	1973.3	1690.1	1699.6	1618.7
72.5°	10721.3	7810.1	1490.1	1375.9	1302.1	1635.4	2180.4	1878.1	1599.7	1544.9	1464.0
75°	5253.5	3894.3	1299.7	1268.8	1140.2	1423.5	2047.2	1787.7	1502.0	1416.4	1371.1
77.5°	2035.3	1656.7	1109.3	1133.1	992.6	1254.4	1871.0	1659.2	1373.5	1256.9	1221.2
80°	987.8	940.2	909.3	945.0	816.5	1068.8	1709.1	1547.3	1254.4	1126.0	1073.6
82.5°	614.1	580.8	697.5	735.6	628.4	975.9	1621.0	1452.1	1104.5	933.1	890.3
85°	311.9	333.2	466.6	502.3	449.9	776.0	1335.4	1090.2	797.4	661.7	666.5
87.5°	119.0	159.5	245.2	264.3	240.5	409.4	735.6	635.6	511.8	347.6	321.3
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)