

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: P647087

Luminaire Tested: **GALN-SA7C-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P647087
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-SA7C-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 38370.1 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 377
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

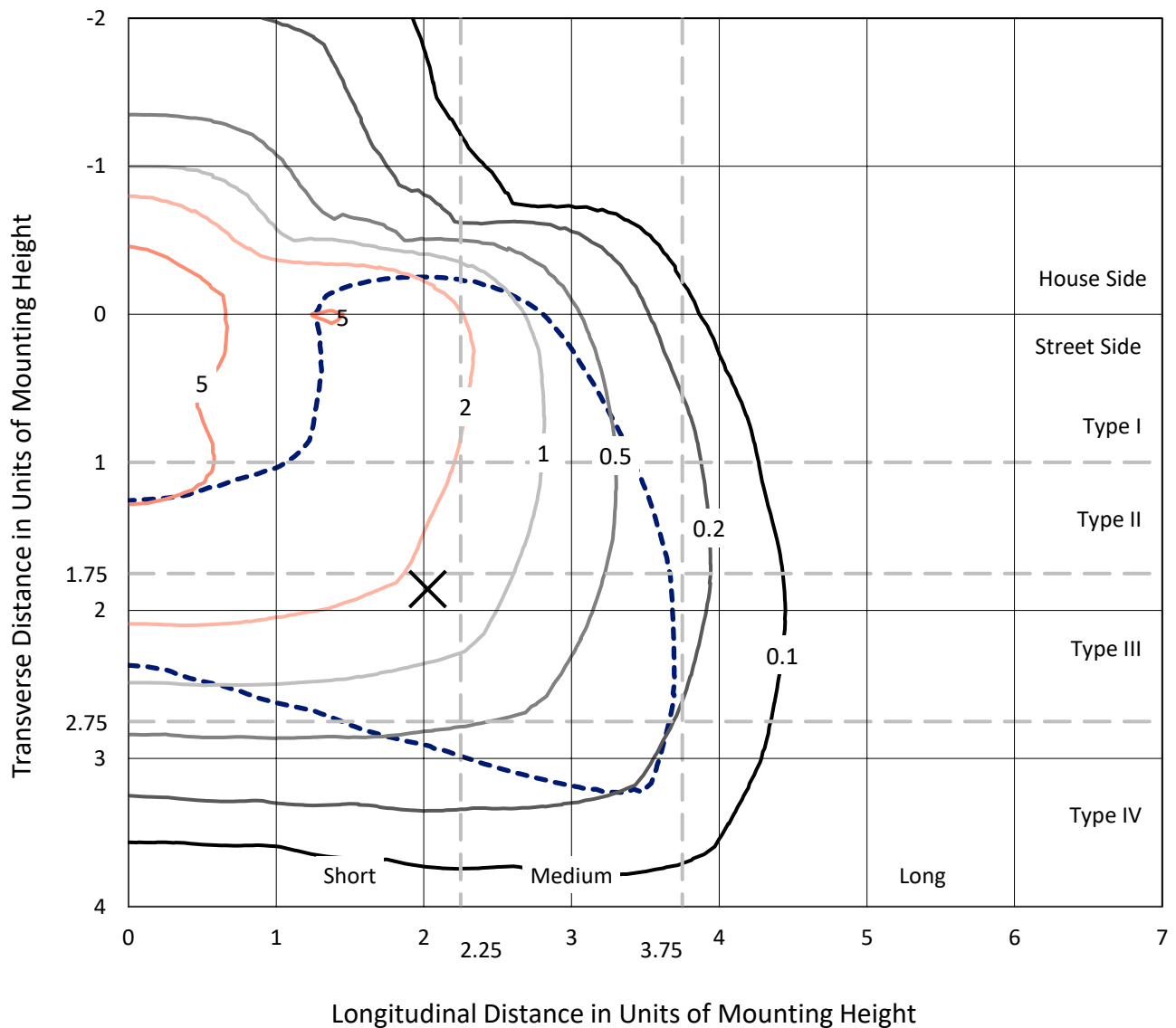




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Iso-Footcandle Lines of Horizontal Illumination

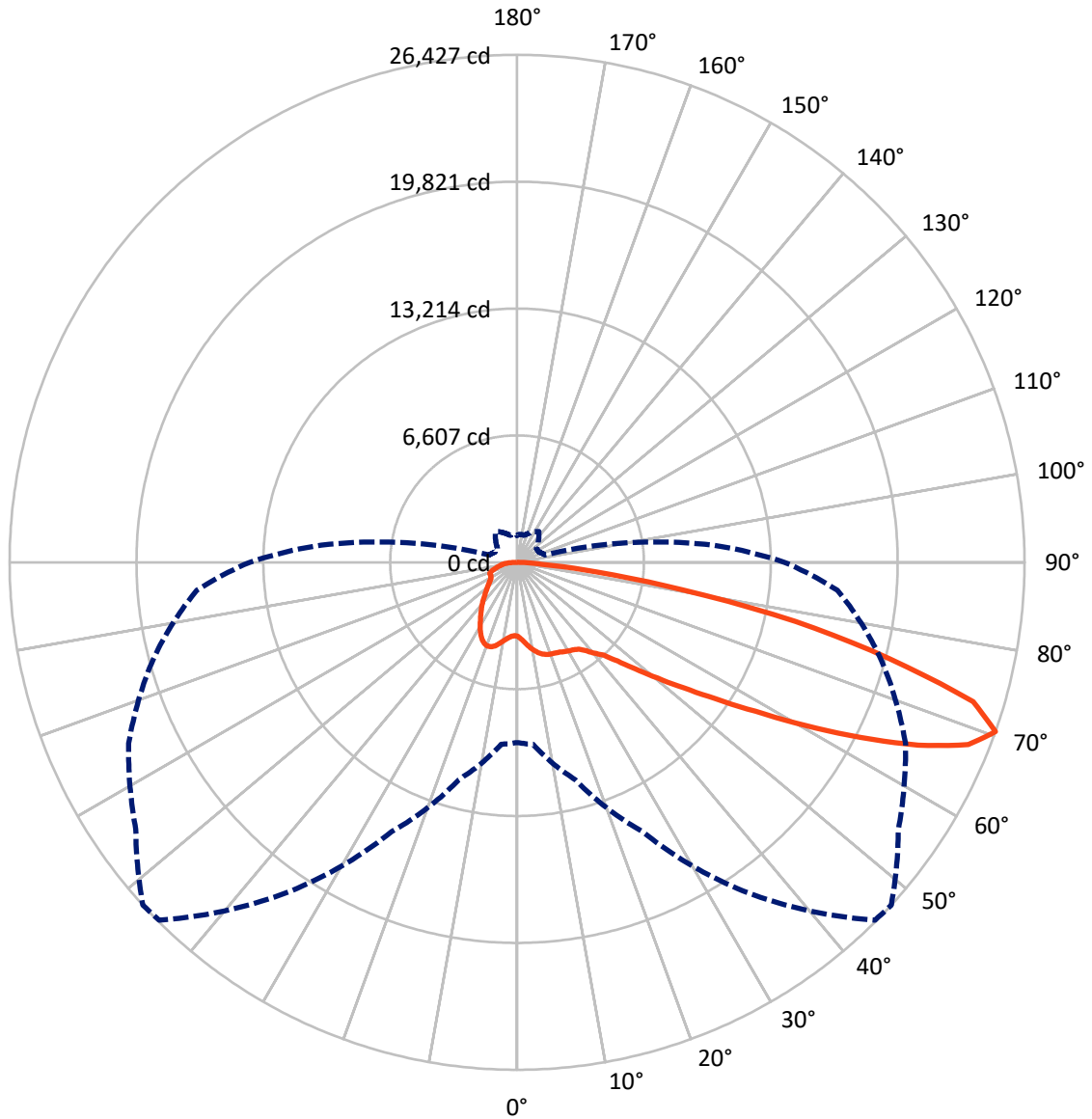
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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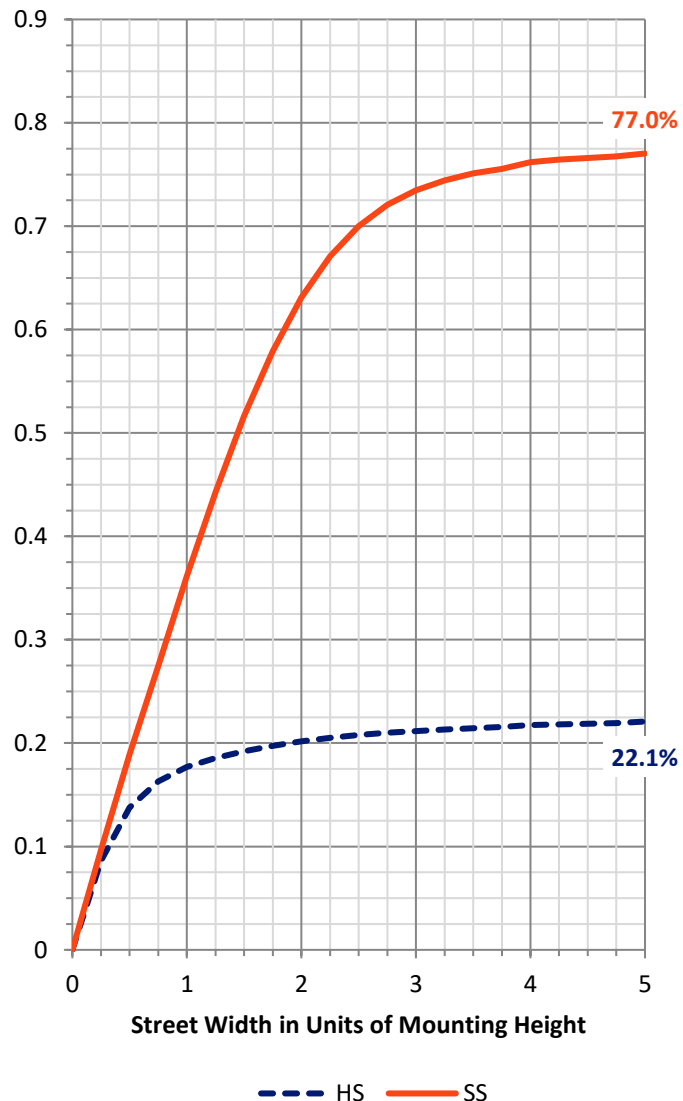
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8687.7	0.0	8687.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	29682.4	0.0	29682.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	38370.1	0.0	38370.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.0	1.0
10°-20°	1327.4	3.5
20°-30°	2207.4	5.8
30°-40°	3128.7	8.2
40°-50°	4618.6	12.0
50°-60°	7999.6	20.8
60°-70°	11299.6	29.4
70°-80°	6495.6	16.9
80°-90°	896.3	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°	38370.1	100.0
0°-180°	38370.1	100.0

Coefficient of Utilization

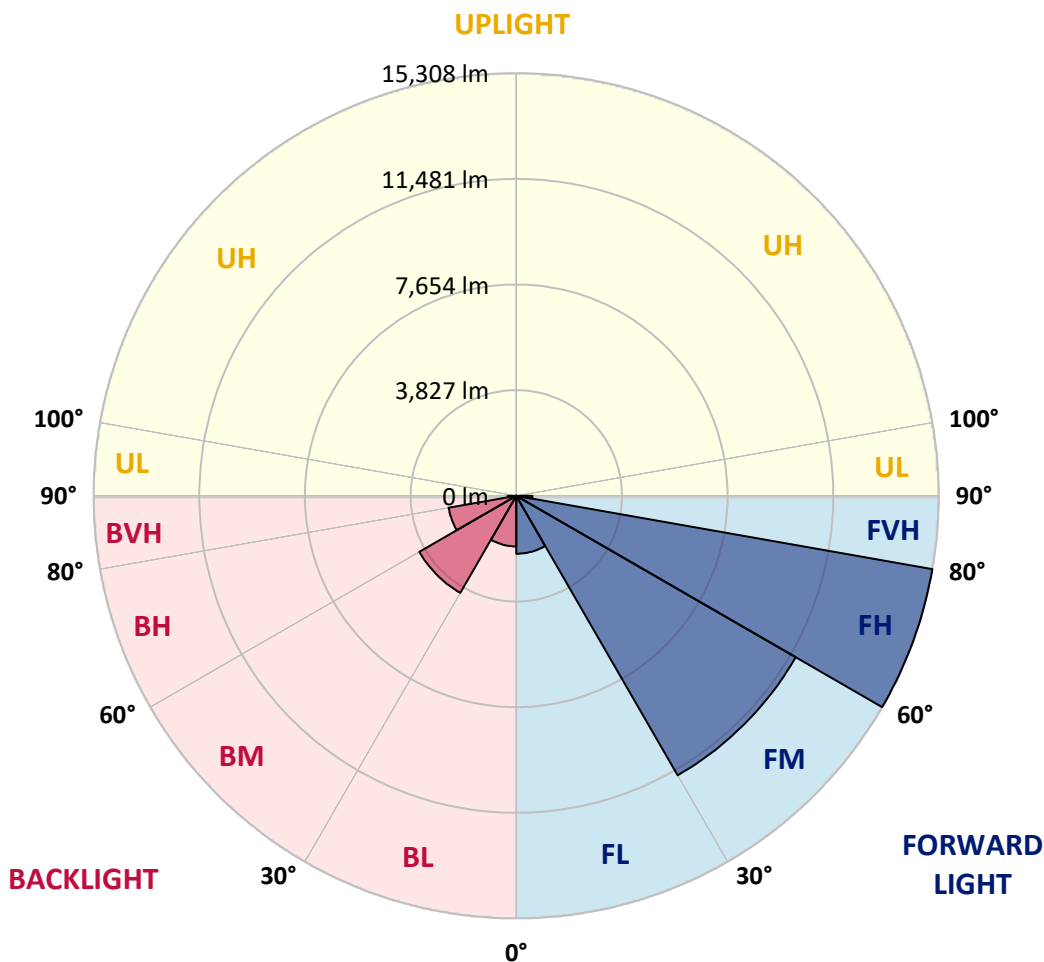


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2098.2	5.5			
FM (30°-60°)	11690.6	30.5			
FH (60°-80°)	15308.1	39.9			G5
FVH (80°-90°)	585.5	1.5			G4/750
BL (0°-30°)	1833.6	4.8	B3/2500		
BM (30°-60°)	4056.2	10.6	B3/5000		
BH (60°-80°)	2487.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	310.8	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-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°	3851.9	3851.9	3851.9	3851.9	3851.9	3851.9	3851.9	3851.9	3851.9	3851.9	3851.9
2.5°	4100.3	4086.0	4083.9	4053.1	4036.7	4005.9	3993.5	3964.8	3930.0	3895.0	3862.1
5°	4422.7	4422.7	4408.4	4365.2	4297.4	4227.7	4196.9	4141.4	4042.9	3962.8	3895.0
7.5°	4753.3	4757.4	4728.6	4665.0	4568.5	4455.6	4426.8	4344.7	4205.0	4088.0	3987.4
10°	5038.7	5038.7	4999.7	4913.4	4792.3	4669.1	4640.4	4548.0	4391.9	4246.1	4114.7
12.5°	5256.4	5256.4	5205.0	5092.1	4960.6	4849.7	4816.9	4728.6	4582.8	4420.7	4254.4
15°	5398.0	5387.7	5330.3	5203.0	5075.6	4979.1	4956.5	4882.6	4749.2	4584.9	4398.0
17.5°	5404.2	5400.0	5344.6	5237.9	5127.0	5061.2	5046.9	4997.6	4892.9	4736.8	4539.8
20°	5285.1	5293.3	5256.4	5180.3	5127.0	5098.2	5092.1	5075.6	5001.7	4855.9	4658.8
22.5°	5157.8	5172.1	5137.3	5096.2	5092.1	5120.8	5124.9	5129.0	5081.8	4940.1	4759.5
25°	5127.0	5137.3	5102.3	5065.4	5087.9	5164.0	5180.3	5196.8	5159.8	5040.7	4878.6
27.5°	5283.0	5274.8	5207.0	5127.0	5141.3	5244.0	5266.6	5285.1	5266.6	5164.0	5026.4
30°	5724.4	5697.7	5562.3	5328.2	5254.2	5326.1	5348.8	5400.0	5400.0	5324.1	5186.5
32.5°	6463.7	6412.3	6163.9	5703.9	5447.3	5404.2	5426.7	5510.9	5554.1	5494.5	5344.6
35°	7360.9	7307.5	6952.3	6334.3	5800.5	5560.2	5554.1	5648.5	5763.5	5630.0	5435.0
37.5°	8262.3	8206.9	7779.7	7085.8	6315.8	5888.7	5851.8	5884.6	5933.9	5689.6	5560.2
40°	9163.7	9098.0	8724.3	7925.5	6946.1	6324.0	6227.5	6079.7	6059.2	5884.6	5802.5
42.5°	10056.9	9997.3	9808.4	8868.0	7701.7	6749.1	6601.2	6346.6	6424.6	6319.9	6248.0
45°	10958.2	10962.3	10761.1	9925.4	8613.4	7533.4	7334.2	6935.9	7120.7	7081.7	7122.7
47.5°	11756.9	11746.6	11674.8	10952.1	9744.7	8543.5	8287.0	7824.9	8141.2	8284.8	8599.0
50°	12531.0	12524.9	12528.9	12116.2	11058.8	9744.7	9461.4	8976.8	9689.3	10188.2	10750.8
52.5°	13639.8	13674.6	13426.2	13317.4	12656.3	11163.5	10851.4	10350.5	11518.7	12305.2	13403.6
55°	14752.6	14723.8	14528.8	14641.7	14327.6	12843.1	12516.6	12118.3	13555.5	14415.9	16066.7
57.5°	15407.6	15417.9	15617.0	16169.3	16391.1	14937.4	14641.7	14333.8	15844.9	16454.7	18436.1
60°	15996.8	16044.1	16617.0	17660.0	18261.6	17510.2	17247.3	16947.6	17945.4	18187.7	20493.5
62.5°	16181.7	16327.4	17327.4	18887.8	20084.9	20413.4	20086.9	19425.8	19945.3	19850.9	21887.7
65°	15259.7	15458.9	17251.4	19347.8	21713.1	23168.9	22961.5	21733.7	21649.5	21080.7	22115.6
67.5°	12832.8	13032.0	15333.6	18382.7	22386.6	25554.8	25347.4	23417.3	22684.3	21195.7	20390.8
70°	9389.5	9514.8	11715.9	15477.4	21033.5	26355.5	26427.4	24238.6	22314.7	19633.2	16742.2
72.5°	5410.3	5687.5	7229.5	10888.4	17183.6	24331.0	24829.9	22530.4	19978.2	16378.8	11705.6
75°	2326.4	2332.5	3342.7	6005.8	11637.8	19557.2	20039.7	18676.4	15688.9	11325.7	6250.1
77.5°	1106.7	1127.2	1470.2	2681.5	6406.1	13512.5	14814.2	13194.2	10034.2	5441.1	2361.2
80°	718.6	733.0	899.4	1330.5	3141.5	7835.2	8742.7	7611.4	4426.8	1944.4	1018.4
82.5°	435.3	439.4	601.6	813.1	1728.9	3548.0	4182.5	3303.7	1889.0	1164.2	599.5
85°	264.9	266.9	365.5	503.1	1049.2	1225.8	1258.7	1248.4	1108.7	761.8	320.3
87.5°	127.3	131.4	188.9	238.2	412.7	379.8	359.3	416.8	523.6	410.7	137.6
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°	3851.9	3851.9	3851.9	3851.9	3851.9	3851.9	3851.9	3851.9	3851.9	3851.9	3851.9
2.5°	3847.8	3841.6	3827.2	3821.1	3817.0	3819.1	3817.0	3817.0	3819.1	3819.1	3819.1
5°	3866.3	3856.0	3833.4	3833.4	3845.7	3874.5	3901.1	3921.7	3944.3	3942.2	3942.2
7.5°	3946.3	3927.8	3901.1	3909.4	3940.2	3985.4	4032.6	4077.8	4123.0	4127.0	4125.0
10°	4063.4	4044.9	4016.2	4026.4	4075.7	4143.5	4203.0	4268.7	4318.0	4332.3	4328.3
12.5°	4196.9	4159.9	4135.3	4164.0	4242.0	4332.3	4389.9	4439.1	4474.1	4494.6	4486.4
15°	4332.3	4297.4	4268.7	4328.3	4422.7	4506.9	4535.6	4543.8	4550.0	4570.5	4566.5
17.5°	4463.8	4416.5	4406.3	4484.3	4574.7	4611.6	4595.2	4560.3	4533.6	4550.0	4548.0
20°	4580.8	4543.8	4539.8	4617.7	4652.7	4617.7	4548.0	4486.4	4439.1	4443.2	4441.2
22.5°	4691.7	4662.9	4667.1	4699.9	4644.4	4525.3	4410.4	4326.2	4274.9	4285.1	4291.3
25°	4814.9	4786.2	4796.4	4743.0	4560.3	4352.9	4186.5	4114.7	4094.2	4114.7	4129.1
27.5°	4975.0	4956.5	4950.4	4745.1	4410.4	4098.3	3909.4	3882.7	3901.1	3946.3	3968.9
30°	5147.5	5147.5	5114.6	4710.1	4205.0	3792.4	3628.1	3632.2	3695.8	3759.5	3782.1
32.5°	5313.8	5348.8	5246.0	4615.7	3940.2	3494.6	3369.4	3373.5	3428.9	3507.0	3527.5
35°	5451.4	5552.0	5359.0	4443.2	3628.1	3244.1	3149.7	3094.3	3096.3	3155.9	3172.2
37.5°	5640.3	5827.2	5424.7	4186.5	3295.5	3030.6	2923.8	2827.3	2763.7	2739.0	2739.0
40°	5968.8	6244.0	5441.1	3806.7	2981.4	2827.3	2675.4	2560.4	2437.2	2326.4	2305.8
42.5°	6525.2	6872.2	5408.3	3369.4	2698.0	2603.6	2455.7	2314.0	2143.6	1987.6	1975.2
45°	7510.8	7689.5	5319.9	2915.6	2445.4	2387.9	2244.2	2090.2	1909.5	1769.9	1759.6
47.5°	9089.8	8837.2	5203.0	2513.2	2215.4	2199.1	2088.2	1909.5	1728.9	1632.3	1622.1
50°	11395.5	10644.0	5186.5	2221.6	2030.6	2038.9	1948.6	1784.3	1626.2	1546.1	1533.7
52.5°	14171.5	12826.6	5295.4	2016.3	1868.5	1899.2	1854.1	1702.2	1562.6	1494.7	1482.5
55°	16865.4	14789.5	5361.0	1856.1	1716.5	1774.0	1780.2	1652.8	1525.6	1457.8	1449.6
57.5°	19052.1	16267.9	5069.5	1710.4	1585.1	1673.4	1718.6	1624.1	1507.1	1455.8	1447.5
60°	20573.6	16966.0	4239.9	1581.0	1488.6	1593.3	1696.0	1626.2	1552.2	1558.4	1562.6
62.5°	21058.2	16656.0	3180.5	1484.5	1422.9	1566.6	1732.9	1710.4	1634.4	1681.6	1689.8
65°	20255.3	15374.8	2305.8	1408.5	1365.4	1585.1	1843.8	1771.9	1605.6	1640.5	1640.5
67.5°	17567.6	13245.5	1794.6	1338.7	1299.7	1620.0	1954.7	1765.8	1537.9	1578.9	1542.0
70°	13935.4	10245.7	1494.7	1260.7	1229.9	1568.7	1964.9	1702.2	1457.8	1466.0	1396.2
72.5°	9247.9	6736.7	1285.4	1186.8	1123.1	1410.6	1880.8	1620.0	1379.8	1332.6	1262.7
75°	4531.5	3359.1	1121.1	1094.4	983.5	1227.8	1765.8	1542.0	1295.6	1221.7	1182.6
77.5°	1755.6	1429.1	956.8	977.3	856.2	1082.0	1613.8	1431.1	1184.8	1084.1	1053.3
80°	852.1	811.0	784.3	815.1	704.2	921.9	1474.2	1334.6	1082.0	971.2	926.1
82.5°	529.8	501.0	601.6	634.5	542.1	841.8	1398.3	1252.5	952.7	804.8	767.9
85°	269.0	287.4	402.5	433.2	388.1	669.4	1151.9	940.4	687.9	570.8	574.9
87.5°	102.7	137.6	211.5	227.9	207.4	353.1	634.5	548.3	441.5	299.8	277.2
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)