

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: P646967

Luminaire Tested: **GALN-SA5C-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646967
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-835-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23504.1 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

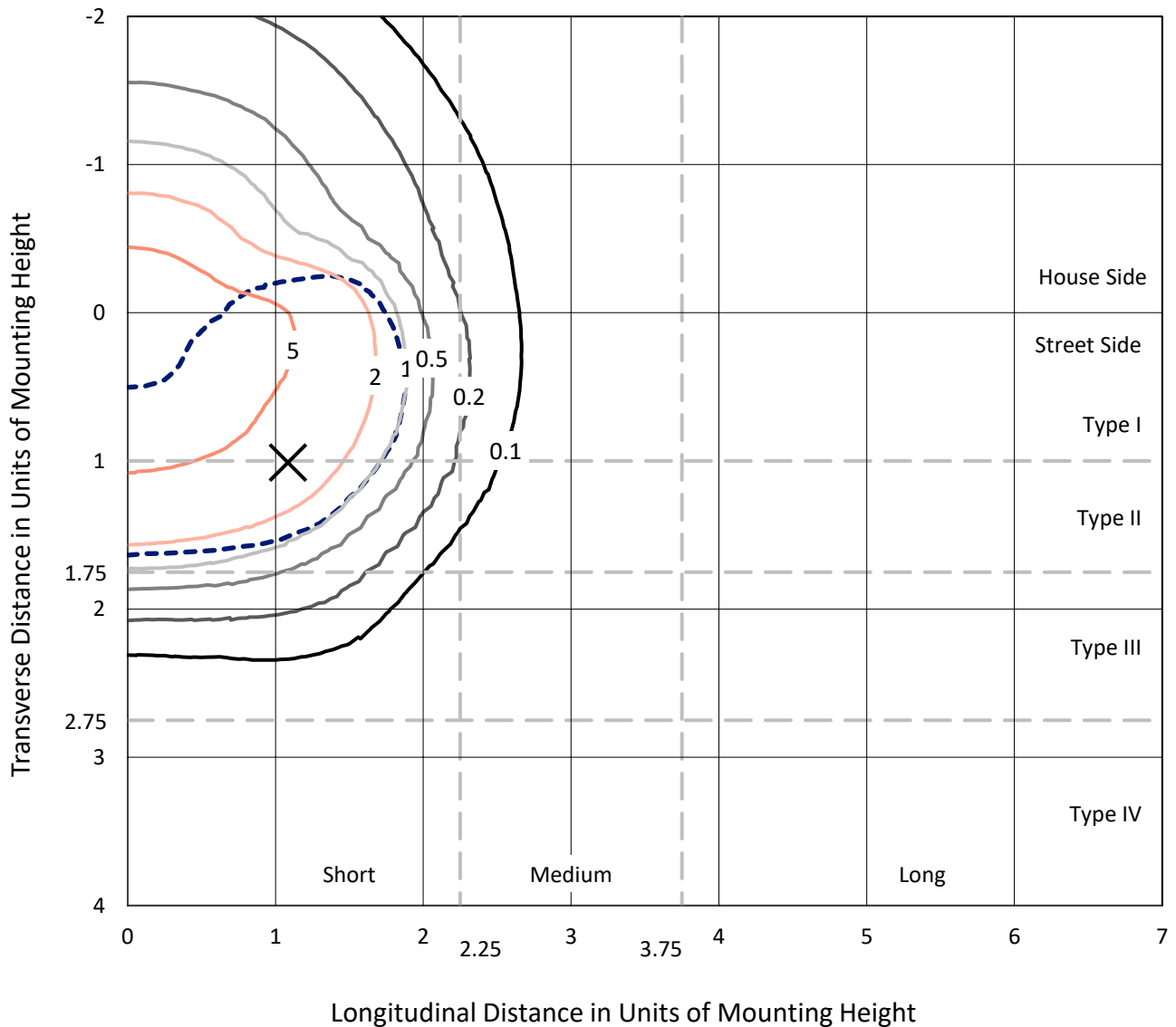
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

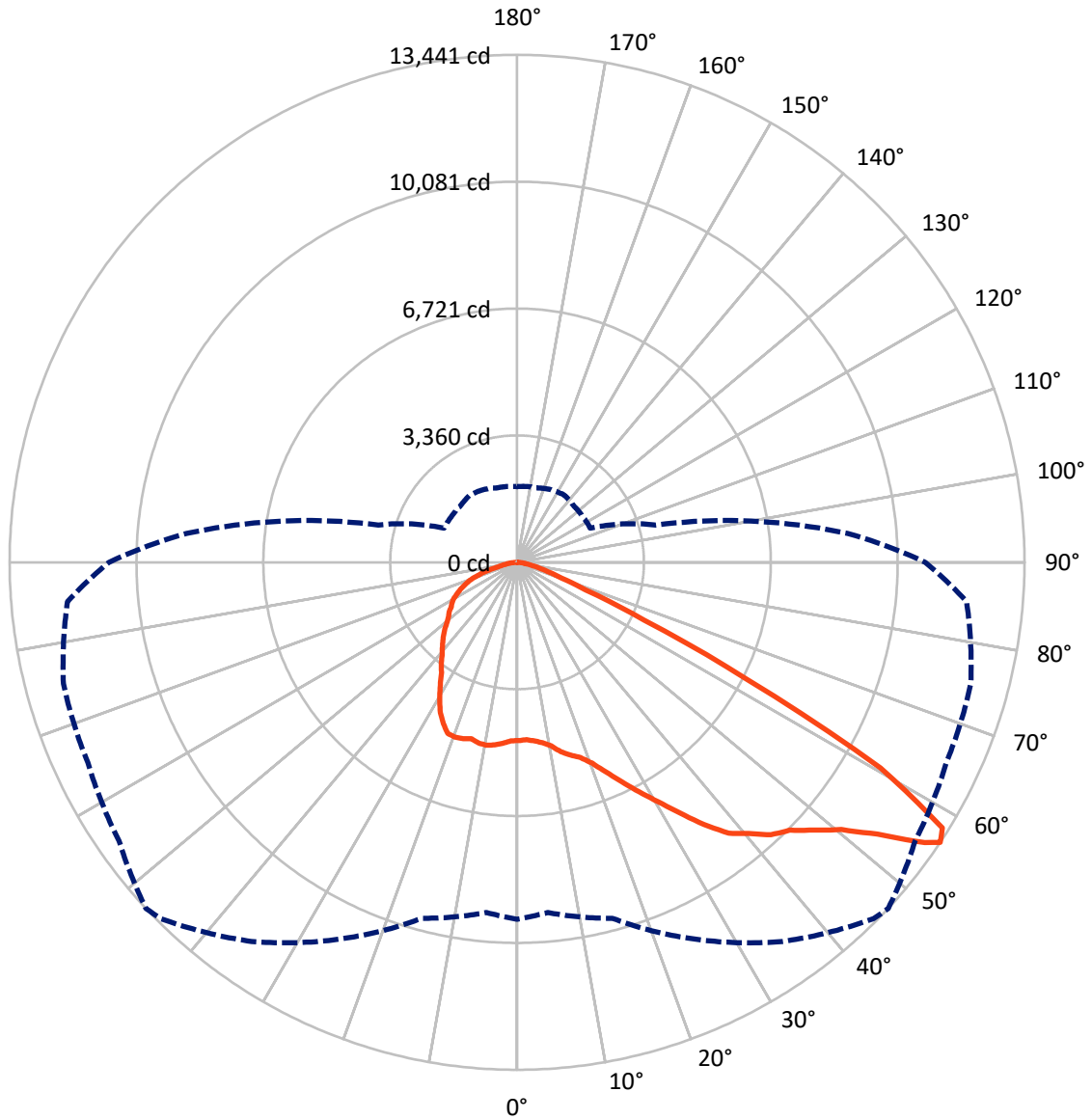
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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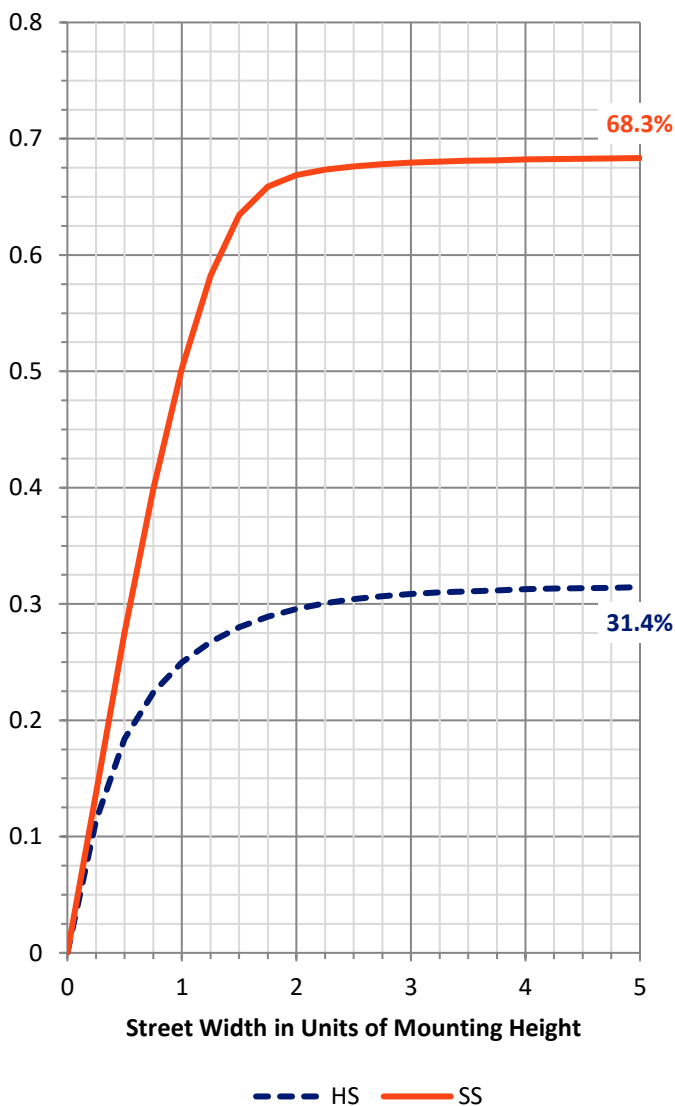
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7448.2	0.0	7448.2
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	16055.9	0.0	16055.9
	% Fixture	68.3	0.0	68.3
Total	Lumens	23504.1	0.0	23504.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.0	2.0
10°-20°	1451.1	6.2
20°-30°	2565.3	10.9
30°-40°	3852.9	16.4
40°-50°	5287.8	22.5
50°-60°	6299.7	26.8
60°-70°	2695.9	11.5
70°-80°	762.9	3.2
80°-90°	128.4	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°	23504.1	100.0
0°-180°	23504.1	100.0

Coefficient of Utilization



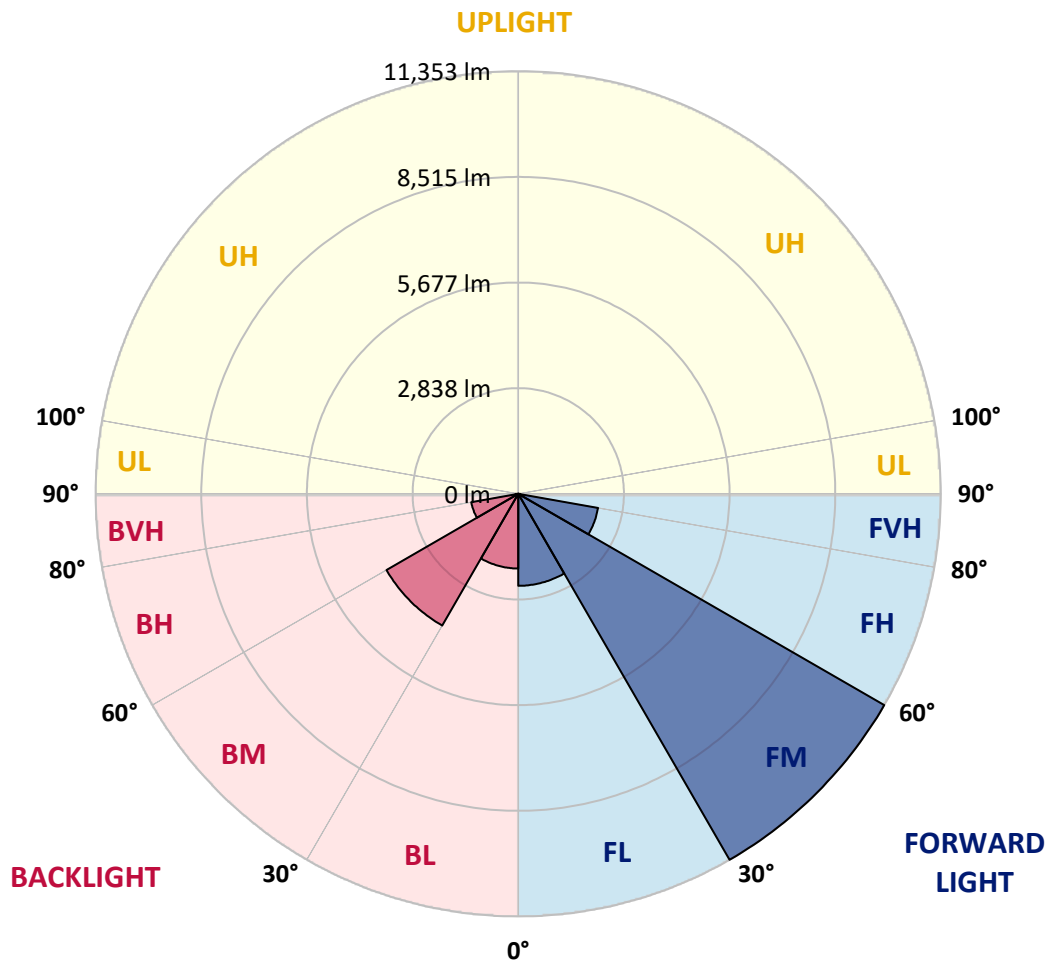
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2471.1	10.5			
FM (30°-60°)	11353.0	48.3			
FH (60°-80°)	2177.3	9.3			G2/5000
FVH (80°-90°)	54.5	0.2			G1/100
BL (0°-30°)	2005.4	8.5	B3/2500		
BM (30°-60°)	4087.4	17.4	B3/5000		
BH (60°-80°)	1281.5	5.5	B3/2500		G3/2500
BVH (80°-90°)	73.9	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°	47°	55°	65°	75°	85°
0°	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3
2.5°	4703.2	4694.2	4688.3	4736.2	4718.3	4721.3	4703.2	4721.3	4733.2	4706.3	4745.2
5°	4694.2	4721.3	4697.3	4712.3	4751.2	4739.3	4751.2	4787.2	4778.2	4769.3	4757.2
7.5°	4778.2	4781.2	4799.2	4805.2	4817.2	4805.2	4823.2	4856.2	4847.2	4796.2	4802.2
10°	4898.1	4904.1	4907.1	4940.1	4961.1	4964.1	4943.1	4913.1	4910.1	4979.0	4931.1
12.5°	5036.0	5021.0	5057.0	5069.0	5092.9	5120.0	5146.9	5083.9	5122.9	5125.9	5069.0
15°	5236.9	5251.8	5209.8	5209.8	5218.9	5221.8	5296.8	5266.8	5260.8	5227.9	5251.8
17.5°	5536.6	5434.7	5431.7	5389.7	5383.8	5407.7	5434.7	5458.7	5539.6	5473.6	5344.8
20°	5755.4	5779.4	5692.5	5641.5	5650.5	5704.5	5677.5	5785.4	5842.4	5734.5	5608.6
22.5°	6142.2	6061.2	6082.2	5968.3	5977.3	6034.2	6031.2	6142.2	6175.1	6004.3	5821.4
25°	6402.9	6381.9	6399.9	6310.0	6322.0	6367.0	6438.9	6621.8	6567.8	6378.9	5956.3
27.5°	6783.6	6741.6	6726.7	6693.7	6681.7	6801.6	6885.5	7080.4	7041.4	6765.7	6196.1
30°	7173.3	7146.4	7161.3	7026.4	7074.4	7329.2	7353.2	7620.0	7602.0	7116.4	6462.9
32.5°	7443.1	7458.1	7485.1	7410.2	7623.0	7826.8	7907.8	8210.5	8225.5	7718.9	6978.5
35°	7877.8	7826.8	7841.8	7928.7	8027.6	8399.3	8531.3	8732.1	8858.0	8351.4	7473.1
37.5°	8150.6	8204.5	8141.6	8279.4	8537.2	8983.9	9103.8	9310.7	9442.5	8974.9	8147.5
40°	8576.2	8489.3	8534.2	8633.1	8896.9	9478.4	9445.5	9658.4	9700.3	9505.5	8777.0
42.5°	9034.8	8992.9	8930.0	9154.8	9376.6	9799.2	9865.2	9766.3	9979.1	10024.0	9676.3
45°	9583.4	9634.3	9643.3	9649.4	9844.2	10212.9	10123.0	10036.0	10281.9	10608.6	10233.9
47.5°	10093.0	9931.1	10048.0	10209.9	10485.7	10488.7	10593.6	10386.7	10647.5	10938.4	10737.5
50°	10263.9	10185.9	10341.8	10647.5	11073.2	11118.2	11130.2	10836.4	10971.3	11202.1	10911.3
52.5°	10197.9	10170.9	10569.6	11043.3	11666.8	11894.6	11954.5	11591.8	11666.8	11561.9	11295.0
55°	9883.2	9964.1	10365.8	11331.0	12287.2	12991.7	13105.6	12647.0	12170.3	12251.3	11957.5
56°	9451.5	9310.7	9760.3	11004.3	12260.3	13348.4	13441.4	12868.8	12545.1	12440.1	11951.6
57.5°	8018.6	7835.8	8426.3	9901.2	11579.8	13213.5	13282.5	12961.7	12482.1	12269.3	11079.2
60°	4694.2	4784.2	5533.6	6828.6	8932.9	10833.4	11064.3	11298.1	10977.3	10024.0	8246.5
62.5°	2266.2	2209.2	2745.8	3914.9	5443.7	6915.5	6846.6	7503.0	7862.8	7122.3	5206.9
65°	1187.0	1181.1	1498.8	2137.3	2991.6	3633.1	3696.1	4049.8	4544.4	3669.1	2643.9
67.5°	872.3	896.3	1055.2	1501.8	1924.5	1963.5	1954.4	2131.3	2179.2	1843.6	1624.7
70°	683.5	695.5	812.4	1142.1	1432.9	1282.9	1256.0	1277.0	1417.9	1477.8	1405.9
72.5°	494.6	506.6	605.5	770.4	896.3	875.3	893.3	1010.2	1184.1	1247.0	1172.1
75°	329.7	338.7	392.7	470.7	530.6	572.5	605.5	740.4	902.3	938.3	902.3
77.5°	227.9	236.8	272.8	332.8	338.7	365.7	377.7	440.7	539.6	584.5	560.5
80°	128.9	128.9	146.9	170.9	209.8	245.8	251.8	302.8	347.7	377.7	383.7
82.5°	60.0	63.0	77.9	104.9	137.9	170.9	176.9	209.8	242.8	272.8	281.8
85°	30.0	33.0	44.9	63.0	83.9	101.9	98.9	101.9	107.9	101.9	104.9
87.5°	9.0	9.0	12.0	15.0	12.0	15.0	15.0	18.0	21.0	24.0	27.0
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°	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3
2.5°	4748.3	4757.2	4697.3	4754.2	4733.2	4730.3	4772.2	4766.2	4781.2	4775.2	4739.3
5°	4751.2	4730.3	4793.2	4736.2	4763.2	4820.1	4781.2	4871.1	4826.2	4856.2	4790.2
7.5°	4844.2	4850.1	4838.2	4862.1	4850.1	4877.2	4856.2	4877.2	4841.1	4844.2	4904.1
10°	4925.1	4907.1	4928.1	4898.1	4919.1	4910.1	4862.1	4847.2	4859.1	4844.2	4883.1
12.5°	5075.0	5042.0	5027.0	4991.1	4967.0	4877.2	4802.2	4760.2	4817.2	4826.2	4808.2
15°	5227.9	5230.8	5161.9	5081.0	4931.1	4796.2	4814.2	4829.2	4829.2	4853.2	4808.2
17.5°	5323.8	5323.8	5260.8	5099.0	4946.1	4868.1	4850.1	4802.2	4760.2	4754.2	4751.2
20°	5491.6	5440.7	5296.8	5096.0	4940.1	4904.1	4769.3	4655.3	4568.4	4538.4	4535.4
22.5°	5683.5	5554.6	5353.8	5101.9	4931.1	4880.1	4628.3	4457.5	4301.6	4235.6	4244.6
25°	5860.4	5653.5	5386.7	5075.0	4898.1	4652.4	4370.5	4133.7	3971.8	3917.9	3890.9
27.5°	5983.3	5758.4	5386.7	5099.0	4775.2	4397.5	4109.7	3806.9	3666.1	3630.1	3636.1
30°	6148.1	5890.4	5479.7	5048.0	4529.4	4067.8	3723.1	3525.2	3441.3	3411.3	3432.3
32.5°	6534.8	6235.0	5608.6	4925.1	4238.6	3738.0	3459.3	3348.3	3225.4	3165.5	3144.5
35°	6954.4	6561.8	5734.5	4718.3	3911.9	3438.3	3264.4	3162.5	3015.6	2949.6	2961.6
37.5°	7548.0	6981.5	5743.5	4376.5	3558.2	3270.4	3111.6	2952.7	2832.7	2730.9	2700.9
40°	8348.3	7554.0	5722.5	4016.8	3273.4	3072.6	2955.7	2757.8	2622.9	2551.0	2566.0
42.5°	9052.8	8225.5	5635.6	3609.2	3015.6	2937.7	2805.8	2610.9	2479.1	2404.1	2398.1
45°	9646.3	8720.1	5470.7	3261.4	2799.8	2787.8	2634.9	2485.0	2380.1	2311.2	2341.2
47.5°	10194.9	9118.7	5221.8	2913.7	2601.9	2625.9	2479.1	2386.1	2320.2	2257.2	2254.2
50°	10392.8	9112.8	5003.1	2625.9	2443.0	2431.1	2425.1	2326.1	2257.2	2203.3	2227.2
52.5°	10722.5	9214.7	4766.2	2428.1	2299.2	2302.2	2323.2	2251.2	2173.3	2140.3	2170.2
55°	11196.1	9229.7	4244.6	2197.3	2179.2	2200.2	2200.2	2152.3	2086.4	2059.4	2044.4
56°	10809.5	8783.1	3806.9	2137.3	2119.3	2119.3	2176.3	2122.3	2041.4	2020.4	2002.4
57.5°	9970.1	7694.9	3186.5	2065.4	2038.4	2080.4	2110.3	2053.3	1978.4	1948.4	1966.4
60°	6876.5	5206.9	2395.1	1909.5	1909.5	1978.4	2002.4	1918.5	1885.5	1882.5	1858.5
62.5°	4013.8	3033.6	1873.5	1768.6	1774.6	1831.5	1849.5	1801.6	1759.6	1810.5	1834.6
65°	2128.4	1810.5	1606.7	1618.7	1621.7	1666.7	1744.6	1741.6	1738.7	1753.6	1756.6
67.5°	1540.8	1504.8	1459.8	1447.8	1453.9	1486.8	1564.7	1624.7	1621.7	1585.7	1558.8
70°	1372.9	1321.9	1295.0	1298.0	1274.0	1312.9	1375.9	1414.9	1345.9	1303.9	1286.0
72.5°	1142.1	1127.1	1109.1	1112.1	1064.2	1055.2	983.2	983.2	965.2	953.2	974.2
75°	872.3	866.3	875.3	860.3	809.4	755.4	713.5	674.5	614.5	590.5	578.6
77.5°	551.5	569.6	590.5	557.6	536.6	497.6	455.6	416.6	368.7	341.7	341.7
80°	374.7	389.7	404.7	398.7	374.7	338.7	305.8	263.8	230.8	209.8	206.9
82.5°	284.8	296.8	317.7	293.8	269.8	239.8	212.8	182.8	152.8	128.9	128.9
85°	101.9	116.9	128.9	140.9	149.9	152.8	131.9	107.9	86.9	69.0	65.9
87.5°	27.0	30.0	33.0	30.0	30.0	30.0	33.0	30.0	27.0	21.0	21.0
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)