

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: P652587

Luminaire Tested: **GALN-SA8B-840-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P652587
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-SA8B-840-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38670.9 lumens
Efficiency: N/A
Efficacy: 119.0 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

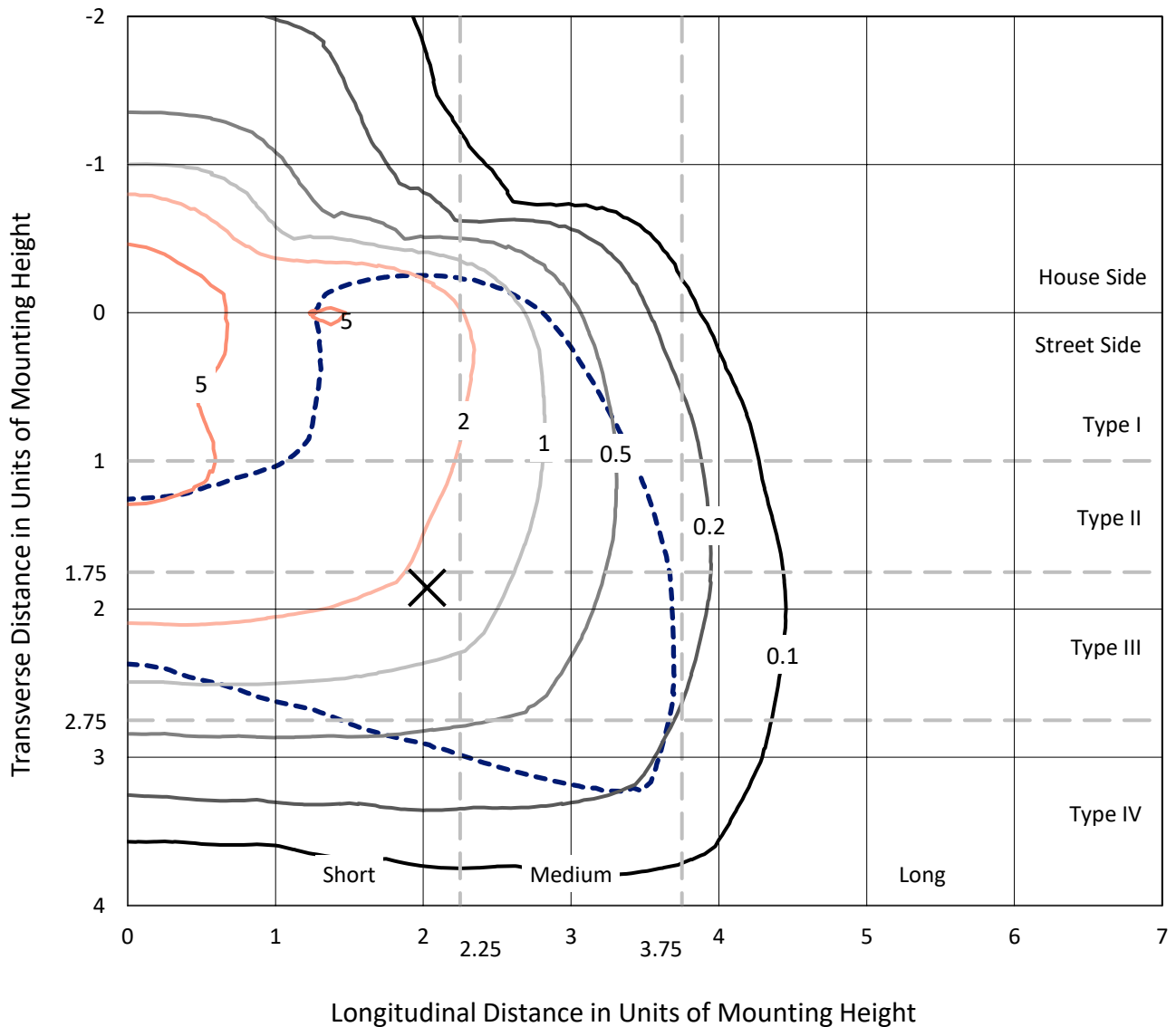
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

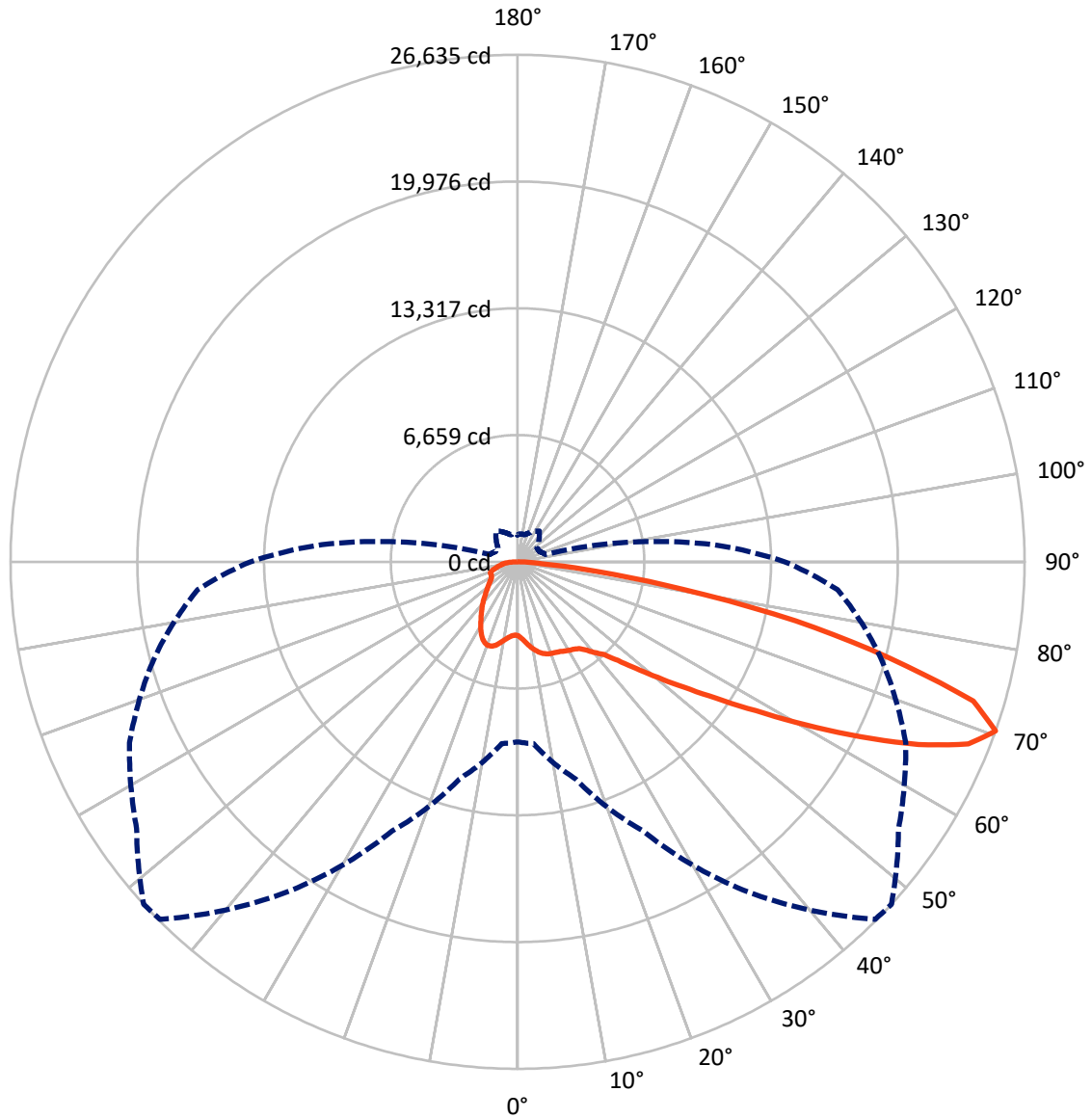
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type 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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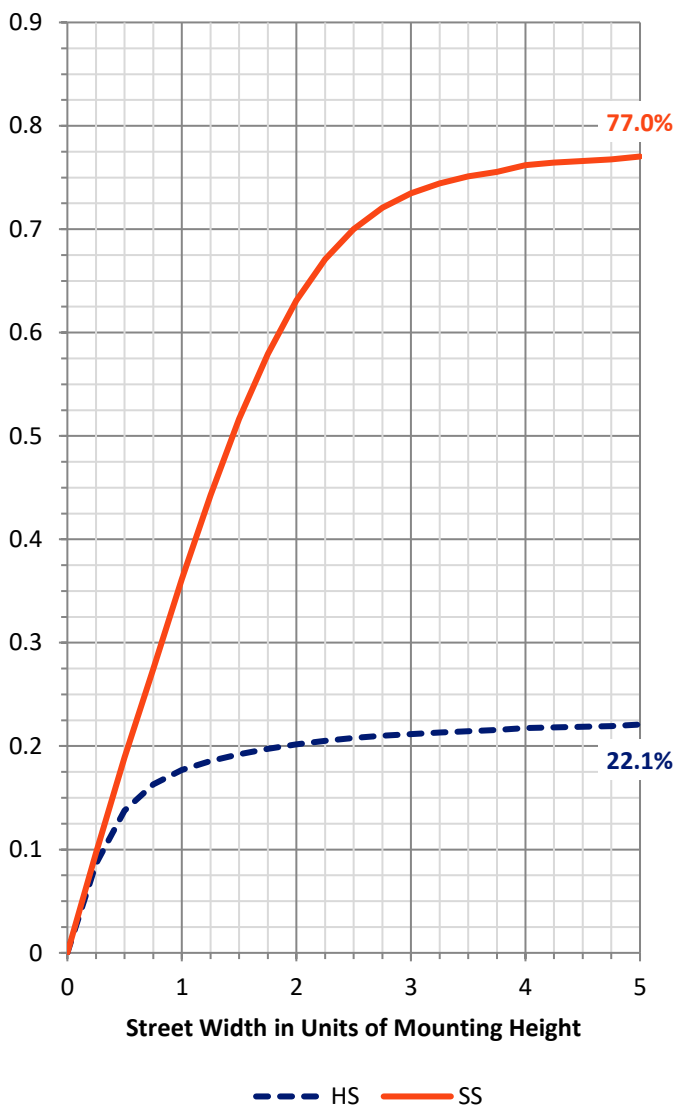
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8755.8	0.0	8755.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	29915.0	0.0	29915.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	38670.9	0.0	38670.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.2	1.0
10°-20°	1337.8	3.5
20°-30°	2224.7	5.8
30°-40°	3153.2	8.2
40°-50°	4654.8	12.0
50°-60°	8062.3	20.8
60°-70°	11388.2	29.4
70°-80°	6546.5	16.9
80°-90°	903.3	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°	38670.9	100.0
0°-180°	38670.9	100.0

Coefficient of Utilization

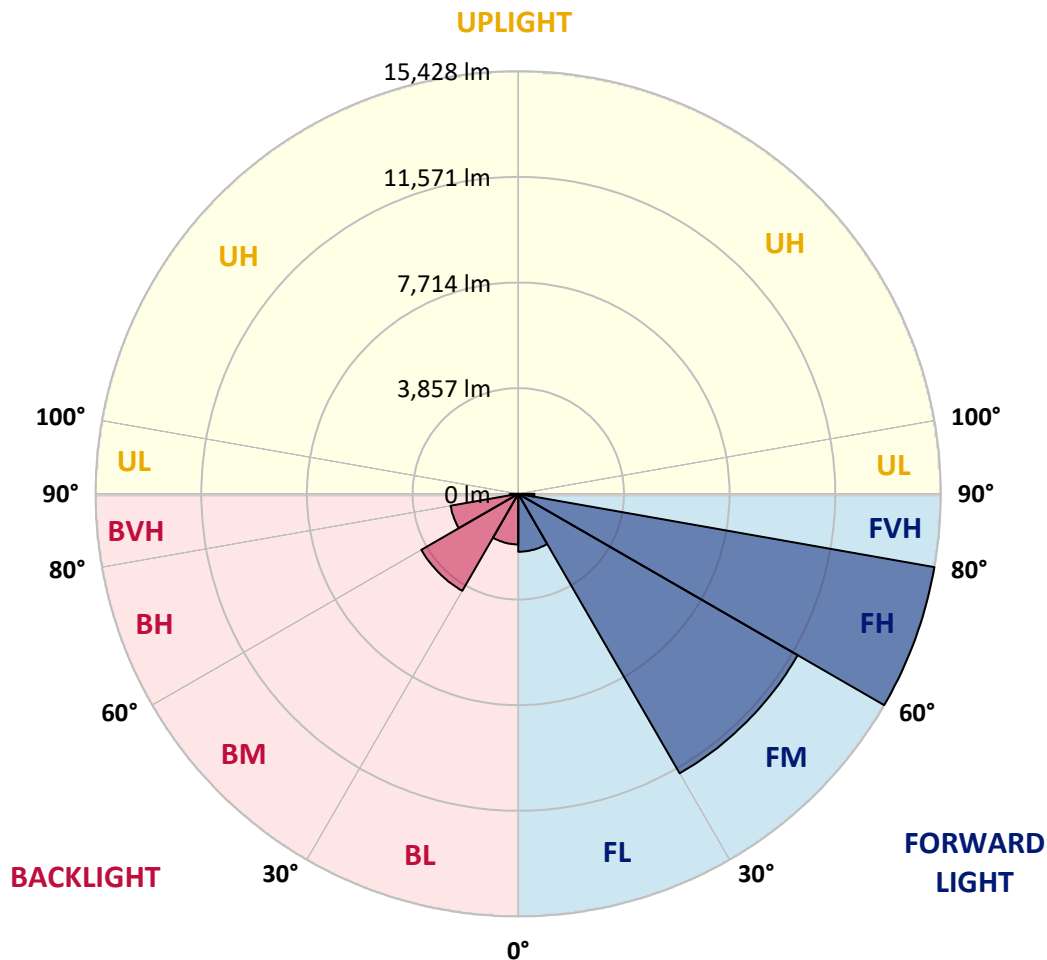


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2114.7	5.5			
FM (30°-60°)	11782.3	30.5			
FH (60°-80°)	15428.1	39.9			G5
FVH (80°-90°)	590.0	1.5			G4/750
BL (0°-30°)	1848.0	4.8	B3/2500		
BM (30°-60°)	4087.9	10.6	B3/5000		
BH (60°-80°)	2506.7	6.5	B4/5000		G4/5000
BVH (80°-90°)	313.2	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°	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1
2.5°	4132.5	4118.0	4115.9	4084.9	4068.3	4037.3	4024.9	3995.9	3960.7	3925.5	3892.4
5°	4457.4	4457.4	4442.9	4399.4	4331.2	4260.8	4229.7	4173.9	4074.6	3993.8	3925.5
7.5°	4790.5	4794.7	4765.7	4701.5	4604.3	4490.4	4461.5	4378.8	4238.1	4120.1	4018.6
10°	5078.2	5078.2	5038.9	4952.0	4829.9	4705.6	4676.7	4583.6	4426.4	4279.4	4147.0
12.5°	5297.5	5297.5	5245.8	5132.0	4999.6	4887.8	4854.7	4765.7	4618.8	4455.3	4287.7
15°	5440.3	5429.9	5372.1	5243.7	5115.4	5018.2	4995.4	4920.9	4786.4	4620.9	4432.6
17.5°	5446.5	5442.4	5386.5	5278.9	5167.2	5100.9	5086.5	5036.7	4931.3	4773.9	4575.3
20°	5326.5	5334.8	5297.5	5220.9	5167.2	5138.2	5132.0	5115.4	5041.0	4894.0	4695.3
22.5°	5198.2	5212.7	5177.5	5136.1	5132.0	5161.0	5165.1	5169.2	5121.6	4978.8	4796.7
25°	5167.2	5177.5	5142.3	5105.0	5127.8	5204.4	5220.9	5237.5	5200.2	5080.2	4916.7
27.5°	5324.5	5316.1	5247.8	5167.2	5181.7	5285.1	5307.9	5326.5	5307.9	5204.4	5065.8
30°	5769.3	5742.4	5605.9	5370.0	5295.4	5367.9	5390.6	5442.4	5442.4	5365.8	5227.2
32.5°	6514.3	6462.6	6212.1	5748.7	5490.0	5446.5	5469.3	5554.1	5597.6	5537.6	5386.5
35°	7418.6	7364.8	7006.8	6383.9	5845.9	5603.8	5597.6	5692.7	5808.6	5674.1	5477.5
37.5°	8327.1	8271.2	7840.7	7141.3	6365.3	5934.9	5897.6	5930.7	5980.4	5734.2	5603.8
40°	9235.4	9169.3	8792.7	7987.6	7000.6	6373.6	6276.3	6127.4	6106.7	5930.7	5848.0
42.5°	10135.6	10075.6	9885.3	8937.5	7762.1	6801.9	6653.0	6396.3	6474.9	6369.5	6297.0
45°	11044.1	11048.2	10845.5	10003.2	8680.9	7592.5	7391.7	6990.2	7176.5	7137.1	7178.5
47.5°	11849.1	11838.8	11766.3	11037.9	9821.1	8610.6	8351.9	7886.3	8205.0	8349.8	8666.4
50°	12629.2	12623.0	12627.1	12211.2	11145.5	9821.1	9535.5	9047.1	9765.3	10268.1	10835.1
52.5°	13746.6	13781.8	13531.4	13421.8	12755.4	11251.0	10936.4	10431.6	11609.0	12401.6	13508.6
55°	14868.2	14839.3	14642.7	14756.5	14439.9	12943.7	12614.7	12213.3	13661.8	14528.9	16192.6
57.5°	15528.4	15538.7	15739.4	16296.1	16519.6	15054.5	14756.5	14446.1	15969.2	16583.8	18580.6
60°	16122.2	16169.8	16747.2	17798.4	18404.8	17647.4	17382.5	17080.4	18086.0	18330.3	20654.1
62.5°	16308.5	16455.4	17463.2	19035.9	20242.3	20573.4	20244.4	19578.1	20101.6	20006.4	22059.2
65°	15379.4	15580.1	17386.7	19499.4	21883.3	23350.4	23141.5	21904.0	21819.2	21245.9	22288.9
67.5°	12933.4	13134.1	15453.9	18526.8	22562.1	25755.0	25546.0	23600.9	22862.1	21361.8	20550.7
70°	9463.1	9589.3	11807.6	15598.7	21198.3	26562.1	26634.6	24428.6	22489.6	19787.0	16873.4
72.5°	5452.7	5732.1	7286.2	10973.7	17318.4	24521.7	25024.5	22706.9	20134.7	16507.1	11797.3
75°	2344.5	2350.8	3368.9	6052.8	11729.0	19710.5	20196.8	18822.8	15811.9	11414.5	6299.1
77.5°	1115.4	1136.1	1481.7	2702.6	6456.4	13618.3	14930.4	13297.6	10112.9	5483.7	2379.8
80°	724.3	738.7	906.3	1341.0	3166.1	7896.7	8811.2	7671.1	4461.5	1959.7	1026.4
82.5°	438.7	442.9	606.3	819.5	1742.4	3575.8	4215.3	3329.6	1903.8	1173.3	604.3
85°	266.9	269.0	368.4	507.0	1057.5	1235.4	1268.5	1258.1	1117.4	767.7	322.8
87.5°	128.3	132.5	190.4	240.0	416.0	382.8	362.1	420.1	527.6	413.9	138.7
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°	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1
2.5°	3877.9	3871.7	3857.2	3851.0	3846.9	3849.0	3846.9	3846.9	3849.0	3849.0	3849.0
5°	3896.6	3886.3	3863.5	3863.5	3875.9	3904.8	3931.8	3952.4	3975.2	3973.1	3973.1
7.5°	3977.3	3958.7	3931.8	3940.0	3971.0	4016.6	4064.2	4109.7	4155.2	4159.4	4157.3
10°	4095.2	4076.6	4047.6	4058.0	4107.6	4175.9	4235.9	4302.1	4351.8	4366.3	4362.2
12.5°	4229.7	4192.5	4167.7	4196.6	4275.2	4366.3	4424.2	4474.0	4509.1	4529.8	4521.6
15°	4366.3	4331.2	4302.1	4362.2	4457.4	4542.2	4571.2	4579.5	4585.6	4606.3	4602.2
17.5°	4498.8	4451.2	4440.8	4519.4	4610.5	4647.8	4631.2	4596.0	4569.2	4585.6	4583.6
20°	4616.7	4579.5	4575.3	4653.9	4689.2	4653.9	4583.6	4521.6	4474.0	4478.1	4476.0
22.5°	4728.4	4699.5	4703.6	4736.8	4680.8	4560.8	4444.9	4360.1	4308.4	4318.7	4324.9
25°	4852.6	4823.6	4834.0	4780.2	4596.0	4387.0	4219.4	4147.0	4126.3	4147.0	4161.4
27.5°	5014.0	4995.4	4989.1	4782.3	4444.9	4130.4	3940.0	3913.1	3931.8	3977.3	4000.0
30°	5187.9	5187.9	5154.7	4747.1	4238.1	3822.1	3656.5	3660.7	3724.8	3789.0	3811.7
32.5°	5355.5	5390.6	5287.2	4651.9	3971.0	3522.0	3395.8	3399.9	3455.8	3534.5	3555.2
35°	5494.1	5595.5	5401.0	4478.1	3656.5	3269.6	3174.4	3118.5	3120.5	3180.6	3197.1
37.5°	5684.5	5872.8	5467.2	4219.4	3321.3	3054.3	2946.8	2849.5	2785.3	2760.5	2760.5
40°	6015.6	6292.9	5483.7	3836.6	3004.7	2849.5	2696.3	2580.4	2456.3	2344.5	2323.9
42.5°	6576.4	6926.1	5450.7	3395.8	2719.1	2623.9	2474.9	2332.2	2160.4	2003.1	1990.7
45°	7569.7	7749.7	5361.7	2938.5	2464.6	2406.6	2261.8	2106.6	1924.5	1783.8	1773.4
47.5°	9161.0	8906.4	5243.7	2532.8	2232.9	2216.3	2104.5	1924.5	1742.4	1645.2	1634.8
50°	11484.9	10727.5	5227.2	2239.0	2046.6	2054.9	1963.8	1798.2	1638.9	1558.2	1545.8
52.5°	14282.6	12927.2	5336.8	2032.1	1883.1	1914.1	1868.6	1715.5	1574.8	1506.5	1494.0
55°	16997.6	14905.5	5403.1	1870.7	1729.9	1787.9	1794.1	1665.9	1537.5	1469.2	1461.0
57.5°	19201.5	16395.4	5109.2	1723.8	1597.6	1686.5	1732.0	1636.8	1518.9	1467.1	1458.9
60°	20734.9	17099.0	4273.2	1593.4	1500.3	1605.8	1709.2	1638.9	1564.4	1570.7	1574.8
62.5°	21223.2	16786.5	3205.4	1496.1	1434.1	1578.9	1746.5	1723.8	1647.2	1694.8	1703.1
65°	20414.1	15495.3	2323.9	1419.6	1376.1	1597.6	1858.3	1785.9	1618.3	1653.4	1653.4
67.5°	17705.3	13349.4	1808.6	1349.2	1309.9	1632.7	1970.0	1779.6	1550.0	1591.3	1554.1
70°	14044.6	10326.1	1506.5	1270.6	1239.5	1581.0	1980.4	1715.5	1469.2	1477.6	1407.2
72.5°	9320.3	6789.5	1295.4	1196.1	1131.9	1421.6	1895.5	1632.7	1390.6	1343.0	1272.7
75°	4567.1	3385.4	1129.9	1103.0	991.2	1237.4	1779.6	1554.1	1305.7	1231.2	1191.9
77.5°	1769.3	1440.3	964.3	985.0	863.0	1090.5	1626.5	1442.3	1194.1	1092.6	1061.6
80°	858.7	817.4	790.5	821.5	709.8	929.1	1485.8	1345.1	1090.5	978.8	933.3
82.5°	533.9	504.9	606.3	639.4	546.3	848.4	1409.3	1262.3	960.2	811.1	774.0
85°	271.1	289.7	405.6	436.6	391.1	674.6	1160.9	947.7	693.2	575.2	579.4
87.5°	103.4	138.7	213.1	229.7	209.0	355.9	639.4	552.5	444.9	302.1	279.4
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)