

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: P650990

Luminaire Tested: **GALN-SA6C-840-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-840-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34983.9 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

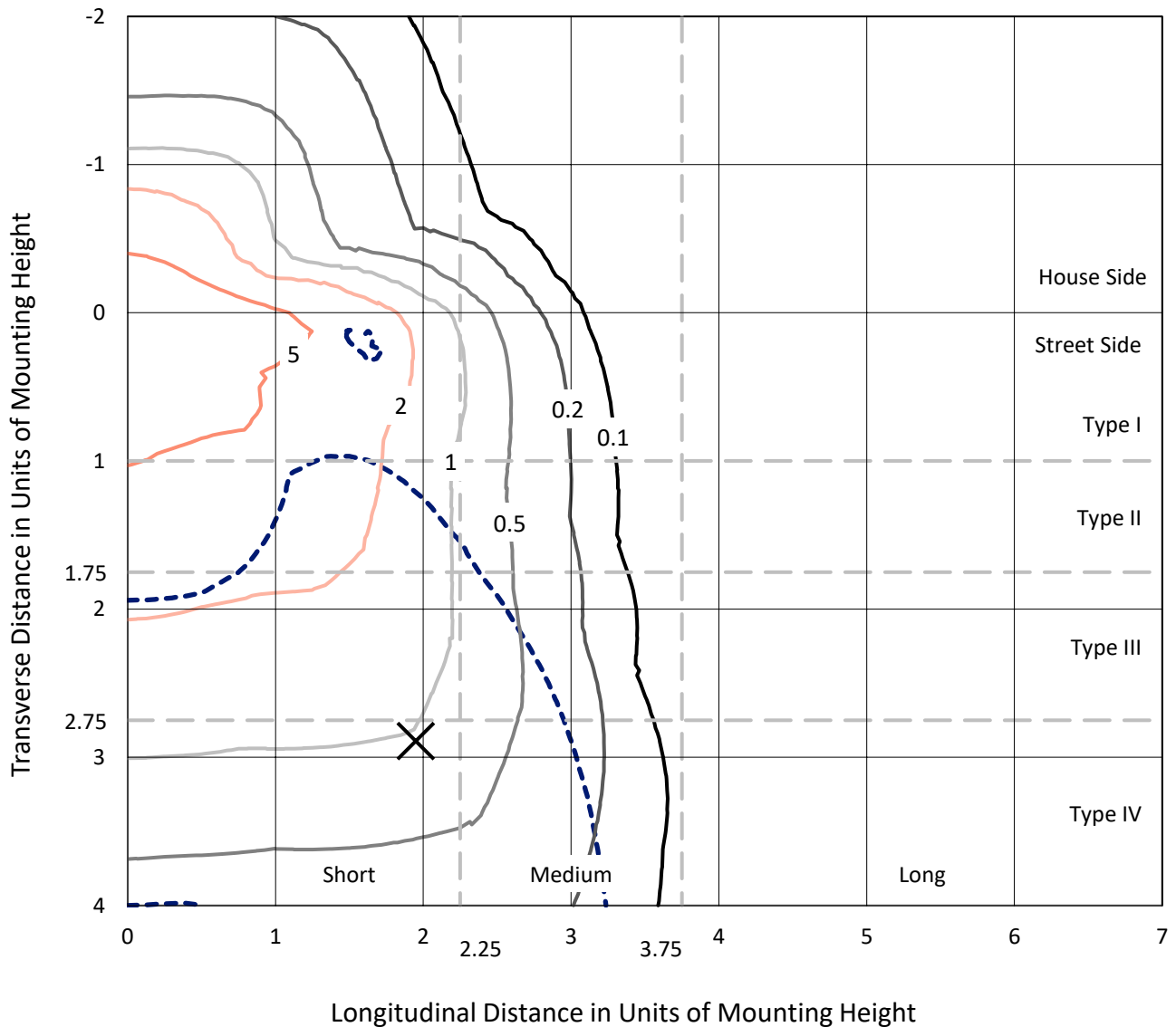
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

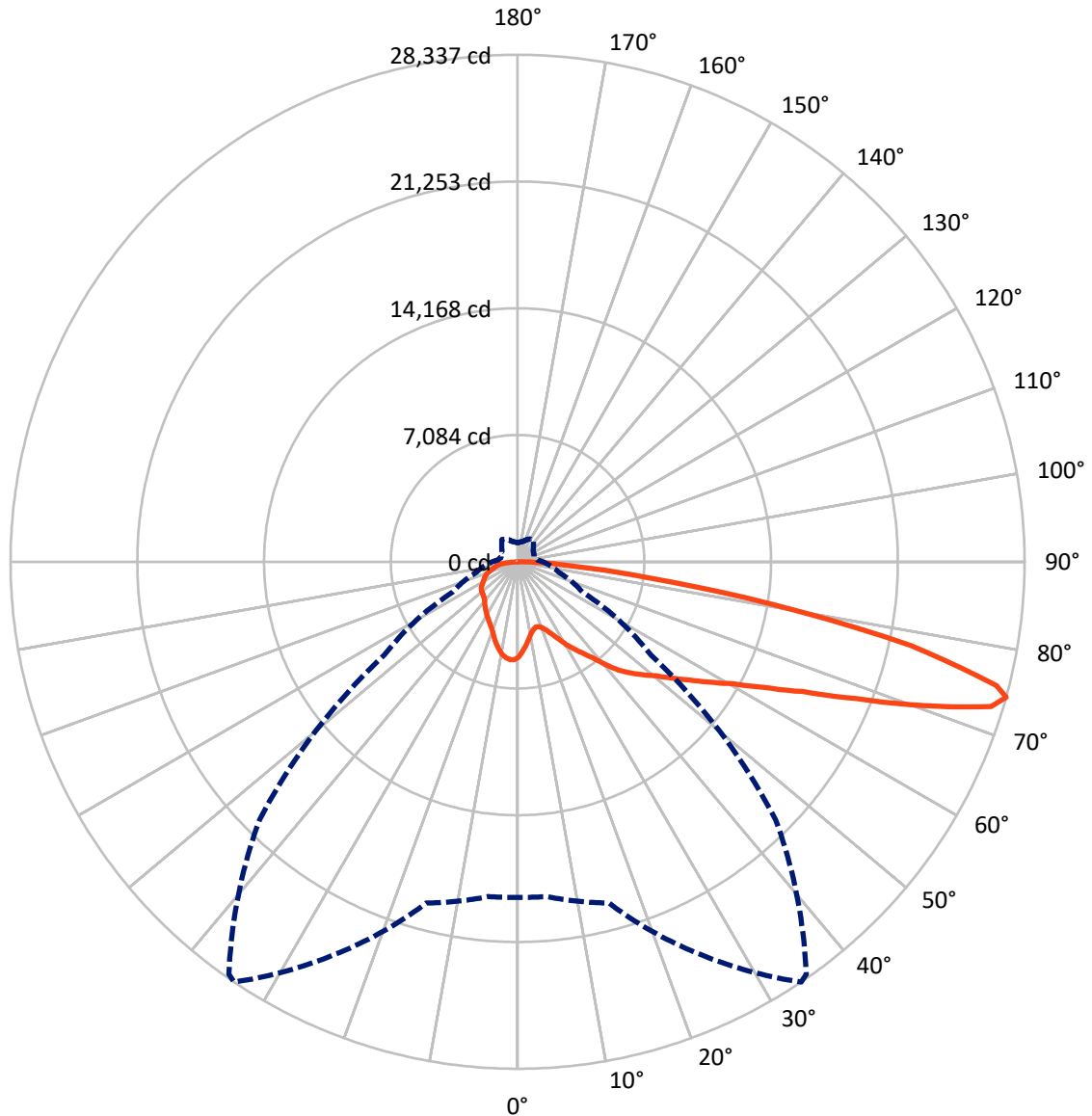
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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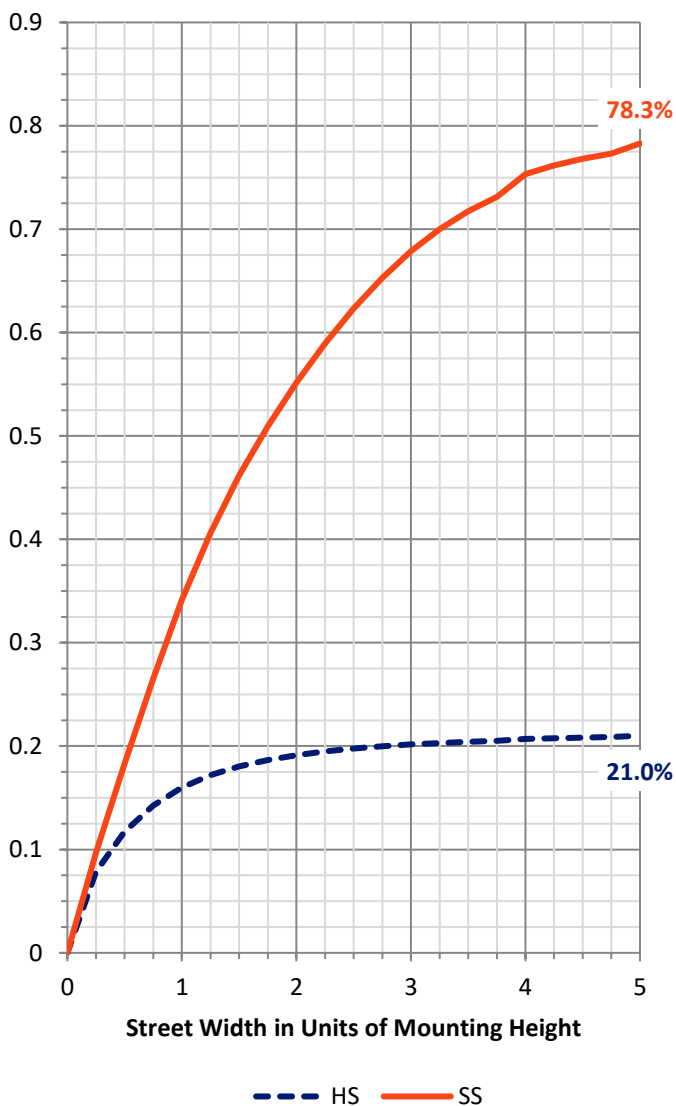
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7444.8	0.0	7444.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	27539.1	0.0	27539.1
	% Fixture	78.7	0.0	78.7
Total	Lumens	34983.9	0.0	34983.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.8	1.4
10°-20°	1329.8	3.8
20°-30°	2192.5	6.3
30°-40°	3284.1	9.4
40°-50°	4774.1	13.6
50°-60°	6668.3	19.1
60°-70°	8348.4	23.9
70°-80°	6903.5	19.7
80°-90°	997.5	2.9
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°	34983.9	100.0
0°-180°	34983.9	100.0

Coefficient of Utilization

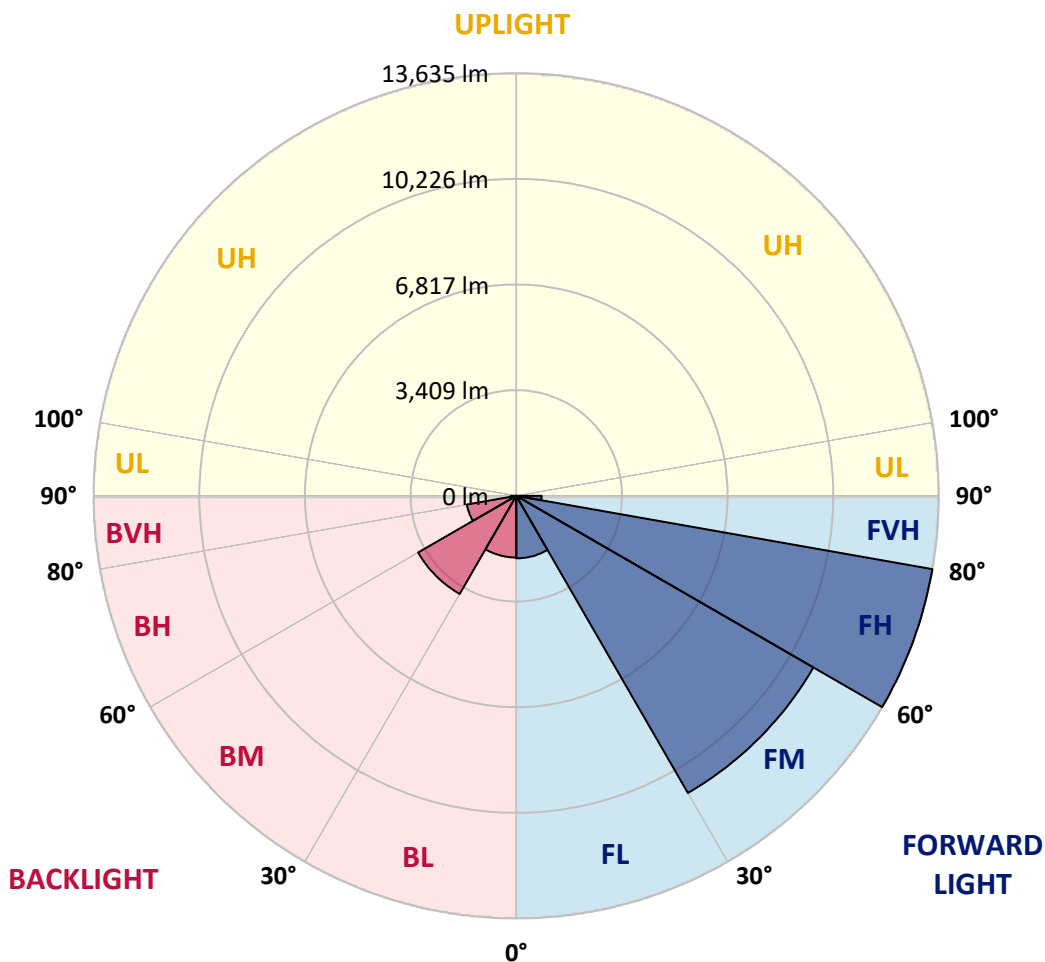


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2016.7	5.8			
FM (30°-60°)	11070.4	31.6			
FH (60°-80°)	13634.9	39.0			G5
FVH (80°-90°)	817.2	2.3			G5
BL (0°-30°)	1991.4	5.7	B3/2500		
BM (30°-60°)	3656.2	10.5	B3/5000		
BH (60°-80°)	1617.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	180.3	0.5			G2/225
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°	34°	35°	45°	55°	65°	75°	85°
0°	5341.4	5341.4	5341.4	5341.4	5341.4	5341.4	5341.4	5341.4	5341.4	5341.4	5341.4
2.5°	4936.3	4961.5	4975.0	5023.5	5035.2	5050.6	5091.3	5145.6	5215.4	5277.4	5331.7
5°	4525.4	4564.2	4587.4	4630.0	4713.4	4721.2	4829.7	4953.7	5095.2	5227.0	5335.6
7.5°	4135.9	4178.5	4197.9	4275.4	4385.9	4403.3	4562.3	4758.0	4994.4	5194.1	5360.7
10°	3843.2	3864.6	3907.2	3965.3	4097.1	4108.7	4316.1	4577.7	4883.9	5178.5	5403.3
12.5°	3684.3	3695.9	3705.6	3767.6	3897.4	3914.9	4132.0	4428.5	4796.7	5190.1	5473.1
15°	3707.5	3711.4	3668.8	3680.4	3785.1	3810.2	4025.4	4329.6	4742.5	5219.2	5577.8
17.5°	3903.3	3889.7	3785.1	3730.8	3804.4	3816.1	4004.1	4291.0	4717.3	5273.5	5686.3
20°	4211.5	4192.0	4011.8	3891.6	3934.3	3944.0	4073.9	4320.0	4742.5	5362.6	5855.0
22.5°	4595.2	4587.4	4314.2	4168.8	4166.9	4166.9	4234.7	4424.7	4818.1	5484.7	6031.3
25°	5132.0	5091.3	4734.7	4546.7	4494.4	4490.5	4482.8	4597.2	4915.0	5614.6	6240.6
27.5°	5682.5	5612.7	5294.9	5006.1	4893.7	4880.1	4829.7	4841.3	5039.0	5761.9	6479.0
30°	6176.6	6132.1	5833.6	5513.8	5380.1	5349.1	5209.6	5145.6	5246.4	6027.4	6858.9
32.5°	6554.6	6527.4	6294.9	6004.2	5806.5	5800.7	5597.2	5544.9	5570.0	6349.1	7293.0
35°	6860.8	6870.5	6752.3	6500.3	6273.6	6240.6	6105.0	6039.1	5965.4	6814.3	7839.5
37.5°	7279.4	7300.7	7293.0	7075.9	6798.8	6806.5	6775.5	6667.0	6471.2	7333.7	8446.2
40°	7740.7	7756.2	7754.3	7670.9	7525.6	7533.3	7521.7	7397.7	7105.0	7994.5	9120.6
42.5°	8378.3	8304.7	8112.8	8196.1	8281.4	8318.2	8397.7	8279.5	7878.3	8700.1	9754.3
45°	9091.5	8952.0	8517.9	8556.7	8872.6	8942.3	9380.3	9217.5	8717.5	9510.2	10500.6
47.5°	9541.1	9403.6	9037.3	9029.5	9448.1	9516.0	10291.2	10231.1	9481.1	10384.2	11411.4
50°	9942.4	9923.0	9510.2	9609.0	10017.9	10118.7	11283.5	11227.3	10242.8	11415.3	12403.7
52.5°	10537.3	10380.4	10050.9	10254.4	10795.1	10926.9	12268.1	12103.3	10942.4	12326.2	13366.9
55°	10804.8	10768.0	10748.6	10924.9	11667.3	11762.2	13225.5	12847.5	11539.4	13097.6	14099.5
57.5°	11519.9	11452.1	11644.0	11764.2	12694.5	12839.8	14225.5	13624.7	12062.6	13710.0	14456.1
60°	12446.4	12409.5	12585.9	12803.0	13841.8	14062.7	15365.1	14287.5	12483.2	14018.1	14260.4
62.5°	13830.2	13826.3	13793.3	14258.5	15467.8	15671.4	16673.3	14932.9	12549.1	13787.5	13248.7
65°	15814.8	15744.9	15458.2	15965.9	17491.2	17729.5	18035.7	15293.4	12151.8	12603.3	11155.6
67.5°	17890.4	17886.6	17654.0	18312.9	20396.4	20642.5	19739.4	15213.9	11049.0	10209.8	7922.9
70°	19611.4	19528.1	19824.6	21580.6	24107.8	24392.7	21229.8	14277.8	8800.8	6742.5	4707.6
72.5°	20024.3	20028.2	20644.4	24100.0	27671.9	27716.5	21766.6	11572.2	5889.9	3719.2	2354.8
74°	18752.9	18785.8	19741.3	24226.0	28336.7	28135.2	20394.4	9095.4	3982.7	2428.4	1697.7
75°	17117.1	16909.7	18291.6	23386.9	27646.7	27429.6	18787.8	7298.8	3039.0	1940.0	1486.5
77.5°	9151.6	9362.9	11494.8	17452.4	22460.4	22210.4	12739.0	3500.2	1641.5	1350.8	1069.8
80°	3257.9	3593.2	5050.6	9132.3	14399.9	14477.5	6079.8	1604.7	1155.1	996.2	755.9
82.5°	1329.5	1366.4	2168.7	4052.5	7312.4	7382.1	2482.7	953.5	825.6	686.1	451.5
85°	519.4	534.9	959.3	1821.8	3120.3	3323.8	858.6	503.9	507.8	393.4	230.6
87.5°	174.4	197.7	393.4	606.6	1060.2	1038.8	250.0	149.2	182.2	170.6	71.7
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°	5341.4	5341.4	5341.4	5341.4	5341.4	5341.4	5341.4	5341.4	5341.4	5341.4	5341.4
2.5°	5358.8	5395.6	5420.8	5447.9	5473.1	5480.9	5475.1	5492.5	5494.4	5496.4	5498.4
5°	5389.8	5440.2	5488.6	5515.8	5527.4	5517.7	5484.7	5467.3	5451.8	5440.2	5444.0
7.5°	5432.4	5504.2	5548.7	5560.4	5529.3	5484.7	5403.3	5339.4	5298.7	5271.6	5269.6
10°	5498.4	5568.1	5604.9	5572.0	5486.7	5378.2	5250.3	5130.1	5039.0	5011.9	5009.9
12.5°	5581.6	5661.1	5659.2	5562.3	5413.1	5219.2	5011.9	4872.3	4748.3	4686.3	4711.5
15°	5690.2	5750.3	5694.1	5519.7	5283.2	5017.7	4761.8	4571.9	4432.4	4366.5	4370.3
17.5°	5816.2	5868.5	5719.3	5444.0	5101.0	4759.9	4463.4	4283.1	4172.7	4124.3	4120.4
20°	5973.2	5988.7	5719.3	5312.3	4866.5	4459.5	4176.6	4050.6	3988.6	3963.4	3971.1
22.5°	6141.7	6110.8	5688.3	5126.2	4558.4	4145.5	3955.6	3899.4	3868.4	3864.6	3868.4
25°	6331.7	6244.5	5624.3	4874.3	4236.6	3874.2	3763.7	3773.5	3779.3	3779.3	3792.8
27.5°	6564.3	6389.8	5517.7	4556.5	3860.7	3622.3	3591.2	3659.1	3690.1	3695.9	3705.6
30°	6870.5	6548.8	5341.4	4159.1	3540.9	3395.5	3449.8	3540.9	3575.8	3597.0	3593.2
32.5°	7234.9	6723.2	5102.9	3761.8	3283.1	3236.6	3302.5	3395.5	3434.3	3445.9	3430.4
35°	7663.2	6920.9	4789.0	3389.7	3058.3	3085.5	3162.9	3192.0	3226.9	3226.9	3234.7
37.5°	8124.4	7079.8	4405.2	3048.6	2883.9	2982.7	3039.0	3011.8	2996.3	2976.9	2986.6
40°	8593.4	7198.0	3907.2	2711.4	2709.4	2876.1	2891.6	2814.1	2752.1	2732.7	2723.0
42.5°	9002.4	7271.7	3457.5	2449.7	2544.7	2771.4	2783.1	2659.1	2560.2	2502.1	2482.7
45°	9485.0	7357.0	3017.6	2232.7	2391.6	2688.1	2717.2	2550.5	2405.2	2283.1	2252.0
47.5°	10145.8	7550.8	2670.7	2064.1	2281.1	2635.8	2676.5	2461.4	2269.5	2110.6	2085.3
50°	10892.0	7816.3	2401.3	1949.7	2195.9	2589.3	2639.6	2370.3	2143.5	1967.2	1947.8
52.5°	11576.2	7959.7	2168.7	1847.0	2112.5	2504.0	2591.2	2304.3	2019.5	1823.7	1806.3
55°	11950.2	7727.1	1940.0	1746.3	1998.1	2393.6	2523.4	2213.3	1899.3	1748.2	1723.0
57.5°	12000.6	7246.5	1732.6	1637.7	1878.0	2257.8	2397.4	2102.8	1821.8	1695.8	1674.5
60°	11611.0	6529.4	1571.7	1548.5	1755.9	2104.8	2255.9	2006.0	1742.3	1637.7	1616.3
62.5°	10642.0	5750.3	1459.4	1467.1	1631.9	1943.9	2151.3	1912.9	1666.8	1573.8	1554.3
65°	8975.2	4746.4	1350.8	1383.8	1521.4	1817.9	2056.3	1835.4	1591.2	1525.2	1507.8
67.5°	6234.8	3426.5	1261.7	1296.6	1416.7	1690.0	1945.8	1752.1	1505.9	1471.0	1443.8
70°	3451.7	2108.6	1157.0	1197.8	1308.2	1546.6	1821.8	1626.1	1381.8	1366.4	1327.6
72.5°	1814.0	1343.1	1038.8	1083.4	1160.9	1362.5	1631.9	1488.5	1259.7	1193.9	1143.5
74°	1416.7	1100.9	959.3	1005.8	1058.2	1253.9	1519.4	1389.6	1172.5	1095.0	1056.3
75°	1234.6	980.7	891.5	951.6	998.1	1180.3	1432.2	1319.9	1124.1	1050.4	1015.6
77.5°	872.1	734.5	728.7	800.5	825.6	1034.9	1290.8	1201.6	1002.0	924.4	891.5
80°	612.4	550.4	577.5	622.1	657.0	914.8	1197.8	1038.8	821.7	730.7	719.1
82.5°	399.2	360.5	412.8	453.6	465.2	674.5	967.1	788.8	598.9	486.4	451.5
85°	184.1	180.2	236.4	230.6	228.7	329.5	573.6	461.3	345.0	257.8	242.3
87.5°	46.5	44.6	58.1	48.4	58.1	50.4	52.3	13.5	1.9	0.0	0.0
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)