

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: P648017

Luminaire Tested: **GALN-SA6A-835-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-835-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21729 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

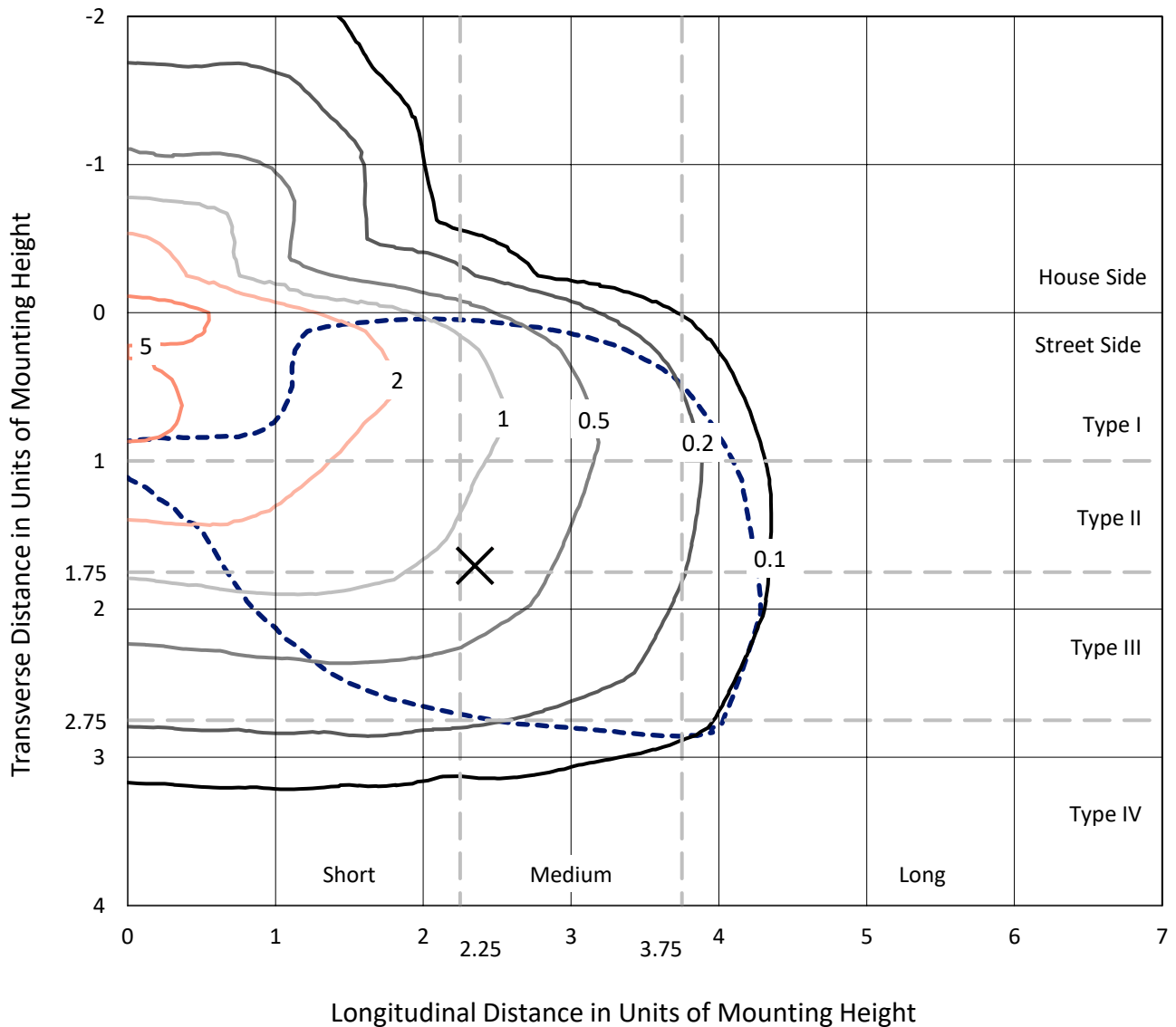
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648017
 CATALOG NUMBER: GALN-SA6A-835-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

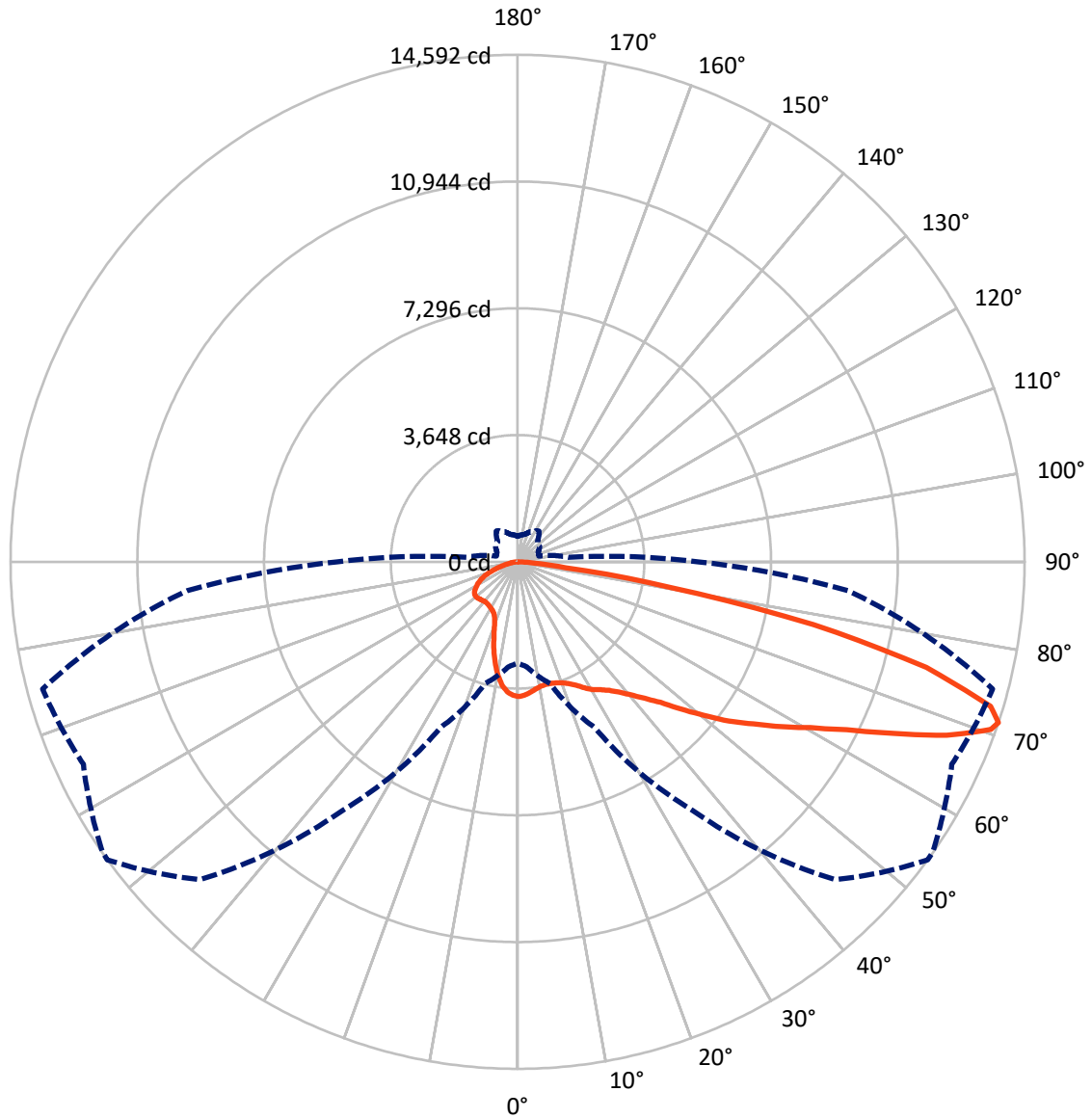
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Medium - N/A

REPORT NUMBER: P648017
CATALOG NUMBER: GALN-SA6A-835-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P648017
 CATALOG NUMBER: GALN-SA6A-835-U-T3R

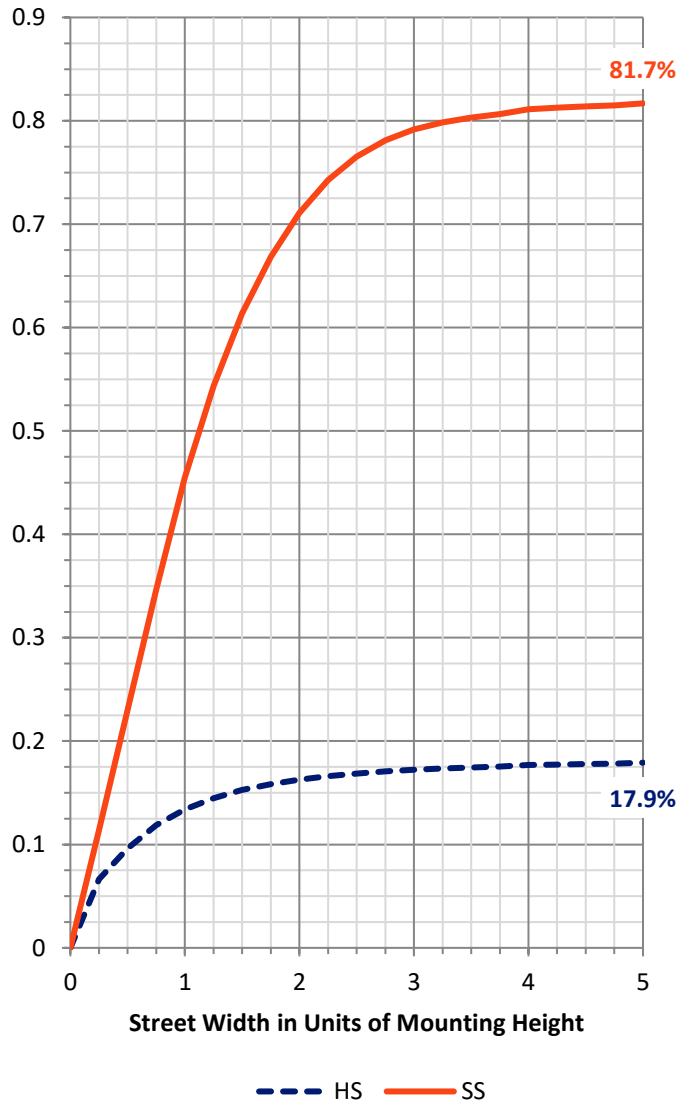
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3923.0	0.0	3923.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17806.0	0.0	17806.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	21729.0	0.0	21729.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.5	1.6
10°-20°	912.2	4.2
20°-30°	1518.9	7.0
30°-40°	2246.0	10.3
40°-50°	3163.5	14.6
50°-60°	4236.1	19.5
60°-70°	5339.3	24.6
70°-80°	3646.7	16.8
80°-90°	320.7	1.5
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°	21729.0	100.0
0°-180°	21729.0	100.0

Coefficient of Utilization

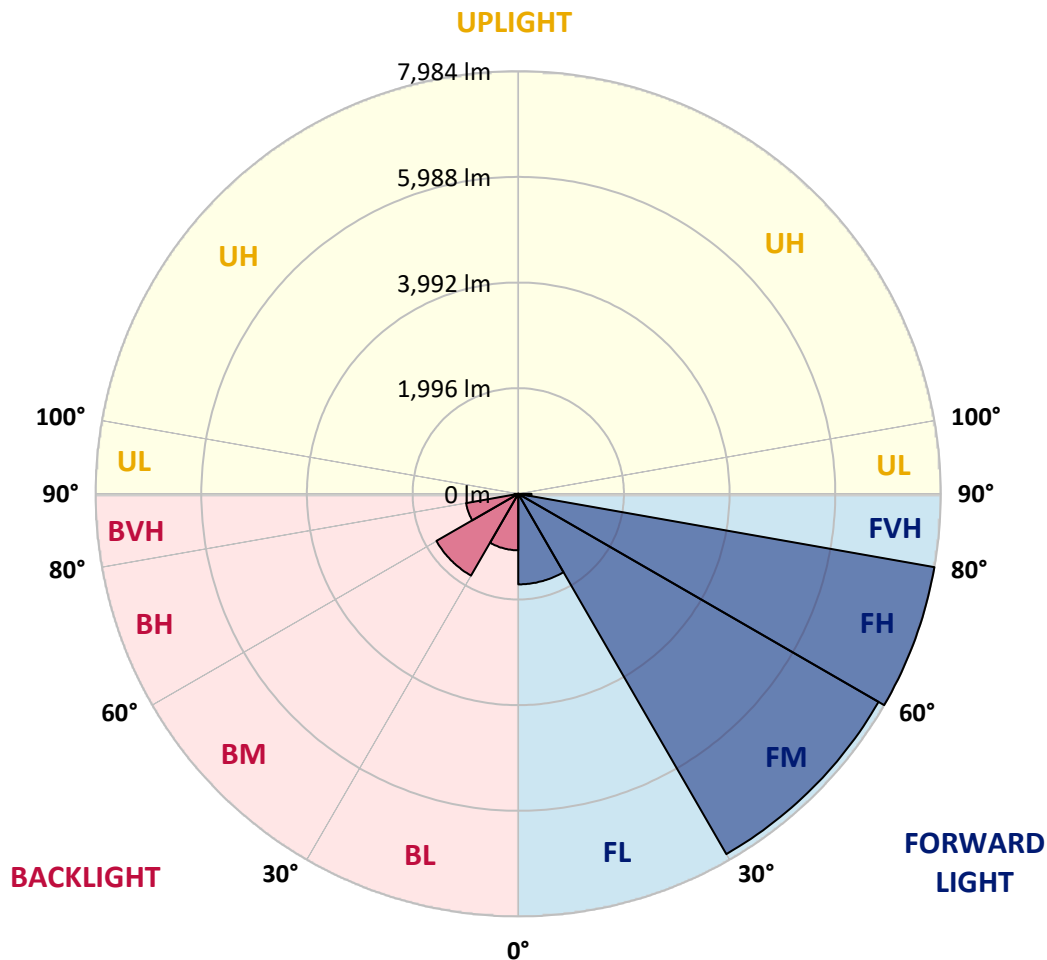


REPORT NUMBER: P648017
 CATALOG NUMBER: GALN-SA6A-835-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1710.4	7.9			
FM (30°-60°)	7860.8	36.2			
FH (60°-80°)	7984.1	36.7			G4/12000
FVH (80°-90°)	250.7	1.2			G3/500
BL (0°-30°)	1066.2	4.9	B3/2500		
BM (30°-60°)	1784.9	8.2	B2/2500		
BH (60°-80°)	1001.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	70.0	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-G4
 Type IV Medium





REPORT NUMBER: P648017

CATALOG NUMBER: GALN-SA6A-835-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3876.8	3876.8	3876.8	3876.8	3876.8	3876.8	3876.8	3876.8	3876.8	3876.8	3876.8
2.5°	3745.3	3762.9	3767.6	3779.4	3804.0	3823.9	3843.9	3841.6	3869.7	3881.5	3892.1
5°	3578.6	3583.3	3600.9	3624.4	3667.9	3723.0	3777.0	3778.2	3847.4	3902.6	3929.6
7.5°	3456.6	3471.8	3483.6	3508.2	3554.0	3613.9	3699.5	3706.6	3829.8	3939.0	3996.5
10°	3376.8	3394.4	3407.3	3437.8	3483.6	3550.5	3643.2	3656.1	3816.9	3996.5	4097.4
12.5°	3304.0	3321.6	3333.4	3373.2	3433.1	3515.3	3619.7	3635.0	3821.6	4063.4	4207.8
15°	3348.6	3362.7	3358.0	3369.7	3409.7	3503.5	3629.1	3644.4	3839.2	4128.0	4316.9
17.5°	3547.0	3558.7	3520.0	3475.3	3456.6	3525.8	3658.5	3674.9	3874.4	4194.8	4428.4
20°	3839.2	3870.9	3786.4	3686.7	3596.2	3605.6	3719.5	3737.1	3923.7	4261.8	4542.3
22.5°	4219.5	4243.0	4139.7	3975.4	3808.7	3723.0	3811.0	3821.6	3997.7	4348.6	4666.7
25°	4666.7	4680.8	4537.6	4326.3	4085.7	3923.7	3936.6	3955.4	4119.8	4447.2	4777.0
27.5°	5100.9	5145.6	4980.0	4721.9	4404.9	4135.0	4109.2	4120.9	4252.4	4502.4	4853.3
30°	5616.2	5612.7	5437.9	5138.5	4732.5	4365.1	4272.4	4270.0	4324.0	4529.3	4908.5
32.5°	6027.1	6075.1	5903.8	5577.5	5106.8	4603.3	4385.0	4380.3	4379.2	4576.3	4990.6
35°	6494.2	6501.2	6343.9	6015.3	5511.8	4902.6	4542.3	4518.8	4491.8	4677.3	5102.1
37.5°	6912.0	6944.9	6800.5	6432.0	5909.7	5213.6	4758.2	4742.9	4660.8	4852.2	5280.6
40°	7238.3	7263.0	7176.1	6825.2	6301.7	5549.4	5032.9	5004.7	4904.9	5138.5	5518.8
42.5°	7345.1	7395.6	7429.7	7257.1	6752.4	5947.2	5370.9	5335.7	5259.4	5572.8	5793.5
45°	7353.3	7433.2	7612.7	7620.9	7205.4	6423.7	5765.3	5740.6	5734.8	6129.2	6179.6
47.5°	7291.1	7372.1	7673.7	7836.9	7609.2	6905.0	6334.5	6295.8	6299.3	6817.0	6612.7
50°	7140.9	7237.1	7603.3	7975.4	7924.9	7405.0	6935.5	6922.6	6995.3	7602.1	7062.3
52.5°	6858.0	6974.2	7530.6	8062.2	8159.6	7835.7	7618.6	7582.2	7766.5	8454.3	7554.0
55°	6075.1	6250.1	7264.1	8110.4	8382.6	8247.7	8233.6	8299.3	8543.5	9383.9	8095.1
57.5°	5666.7	5798.1	6685.5	8118.6	8664.4	8726.5	8952.0	8968.3	9395.6	10370.9	8706.6
60°	5443.7	5559.9	6368.6	8064.6	9057.6	9319.3	9686.6	9745.4	10227.8	11440.2	9340.4
62.5°	5248.8	5348.6	6178.4	7878.0	9501.2	10198.4	10638.5	10666.7	11172.6	12620.9	9966.0
65°	4789.9	4903.8	5795.8	7691.3	9883.9	11297.0	11901.4	11868.6	12178.5	13639.8	10358.1
67.5°	4171.4	4315.7	5081.0	7047.0	10072.8	12497.7	13324.0	13283.0	13171.5	14307.6	10470.7
70°	3381.5	3458.9	4166.7	5933.1	9318.1	13128.0	14447.3	14403.8	13786.4	14395.6	9937.8
71°	2909.6	3030.5	3628.0	5270.0	8690.2	12935.6	14591.6	14579.9	13787.6	14152.6	9536.5
72.5°	2271.2	2345.1	2873.2	4083.3	7386.2	11841.6	14234.8	14279.4	13488.3	13477.8	8709.0
75°	1436.6	1469.5	1802.9	2403.7	4052.8	8386.2	12151.5	12272.4	11976.6	11031.8	6476.6
77.5°	834.5	876.8	1079.8	1416.7	1751.2	4551.7	8694.9	8826.4	8321.6	6074.0	2651.4
80°	485.9	532.8	711.3	822.8	804.0	1689.0	4427.2	4651.4	3603.3	1534.1	744.2
82.5°	270.0	301.6	500.0	501.2	428.4	551.6	1393.2	1457.8	1028.2	618.6	304.0
85°	196.0	221.8	322.8	292.3	205.4	237.1	484.8	508.2	415.5	260.6	98.6
87.5°	69.2	98.6	177.2	140.9	56.4	49.3	139.7	113.8	105.6	72.7	22.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P648017
 CATALOG NUMBER: GALN-SA6A-835-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3876.8	3876.8	3876.8	3876.8	3876.8	3876.8	3876.8	3876.8	3876.8	3876.8	3876.8
2.5°	3897.9	3900.3	3888.5	3867.4	3846.3	3819.2	3788.8	3765.3	3754.7	3753.5	3752.4
5°	3940.1	3946.0	3901.5	3835.7	3762.9	3673.8	3597.4	3510.6	3488.3	3453.1	3463.6
7.5°	4008.3	4004.7	3916.7	3777.0	3606.8	3417.9	3258.2	3165.5	3069.3	3042.3	3043.4
10°	4105.7	4083.3	3916.7	3657.3	3373.2	3092.8	2869.7	2728.9	2652.6	2589.2	2565.7
12.5°	4208.9	4152.6	3879.1	3489.4	3072.8	2728.9	2489.5	2299.3	2250.0	2198.4	2199.5
15°	4307.5	4213.6	3805.2	3253.5	2748.9	2340.4	2108.0	1994.1	1978.9	1984.7	1983.6
17.5°	4396.7	4257.1	3692.5	2990.6	2370.9	2007.1	1883.8	1892.0	1933.1	1962.4	1966.0
20°	4487.1	4282.9	3524.7	2638.5	2014.1	1805.2	1809.9	1874.4	1936.6	1976.5	1982.4
22.5°	4572.8	4294.6	3327.5	2298.1	1755.9	1719.5	1788.8	1858.0	1919.1	1957.7	1963.6
25°	4629.1	4267.7	3048.1	1942.5	1629.1	1689.0	1761.8	1820.4	1872.1	1912.0	1921.4
27.5°	4644.4	4180.8	2701.9	1654.9	1570.5	1659.6	1726.5	1770.0	1809.9	1847.4	1854.5
30°	4636.1	4052.8	2321.6	1485.9	1536.4	1625.6	1677.3	1708.9	1757.1	1786.4	1792.3
32.5°	4623.3	3903.8	1924.9	1395.5	1508.2	1593.9	1624.4	1652.6	1651.4	1639.7	1647.9
35°	4627.9	3725.4	1603.3	1341.6	1483.6	1570.5	1596.2	1561.1	1460.1	1455.4	1450.7
37.5°	4652.6	3549.3	1369.7	1304.0	1470.6	1566.9	1581.0	1419.0	1329.8	1288.7	1278.2
40°	4716.0	3343.9	1216.0	1275.8	1469.5	1593.9	1511.7	1347.4	1176.1	1096.3	1090.4
42.5°	4800.5	3142.0	1122.0	1258.2	1483.6	1635.0	1483.6	1246.5	1059.9	1012.9	1005.8
45°	4926.1	2910.8	1070.4	1250.0	1504.7	1650.3	1474.2	1172.5	1012.9	975.4	975.4
47.5°	5068.1	2690.2	1042.3	1244.1	1531.7	1639.7	1390.8	1149.1	990.7	995.3	1017.6
50°	5209.0	2498.9	1021.1	1231.2	1555.2	1633.8	1356.8	1147.9	996.4	1056.3	1096.3
52.5°	5372.1	2363.9	995.3	1210.1	1555.2	1596.2	1346.3	1171.4	1012.9	1030.5	1048.1
55°	5569.2	2321.6	962.5	1164.3	1527.0	1502.3	1340.4	1205.4	1024.6	983.6	990.7
57.5°	5829.8	2389.7	930.8	1106.8	1462.5	1404.9	1338.1	1214.8	997.6	963.6	956.6
60°	6132.7	2524.6	921.4	1048.1	1374.4	1321.6	1324.0	1187.8	960.1	924.9	930.8
62.5°	6345.1	2605.7	915.5	1003.5	1278.2	1230.0	1289.9	1154.9	943.7	913.1	919.0
65°	6345.1	2507.1	861.5	935.5	1153.8	1119.7	1248.8	1113.8	922.5	887.3	881.4
67.5°	6104.5	2219.5	779.3	833.3	1016.4	994.2	1191.3	1064.6	890.8	863.9	849.8
70°	5477.7	1683.1	676.0	713.6	842.7	862.7	1117.3	997.6	838.0	805.2	784.0
71°	5201.9	1465.9	632.7	652.6	775.8	805.2	1082.2	969.5	814.6	767.6	730.1
72.5°	4670.2	1234.7	566.9	575.1	663.1	716.0	1008.2	915.5	769.9	703.1	660.8
75°	3548.2	901.4	456.6	451.9	490.6	568.1	853.3	815.7	674.9	584.5	559.8
77.5°	1532.9	490.6	341.5	345.1	333.3	430.7	671.3	700.7	578.6	475.4	453.0
80°	464.8	282.9	233.6	238.3	223.0	288.8	473.0	549.3	464.8	369.7	339.2
82.5°	238.3	169.0	159.7	157.3	142.0	163.2	286.4	375.6	332.1	231.2	204.2
85°	103.3	90.4	78.6	76.3	66.9	58.6	102.1	187.8	176.0	129.1	123.2
87.5°	25.8	23.5	15.3	14.1	8.2	1.2	0.0	0.0	0.0	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)