

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: P647512

Luminaire Tested: **GALN-SA6D-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-835-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31563.5 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

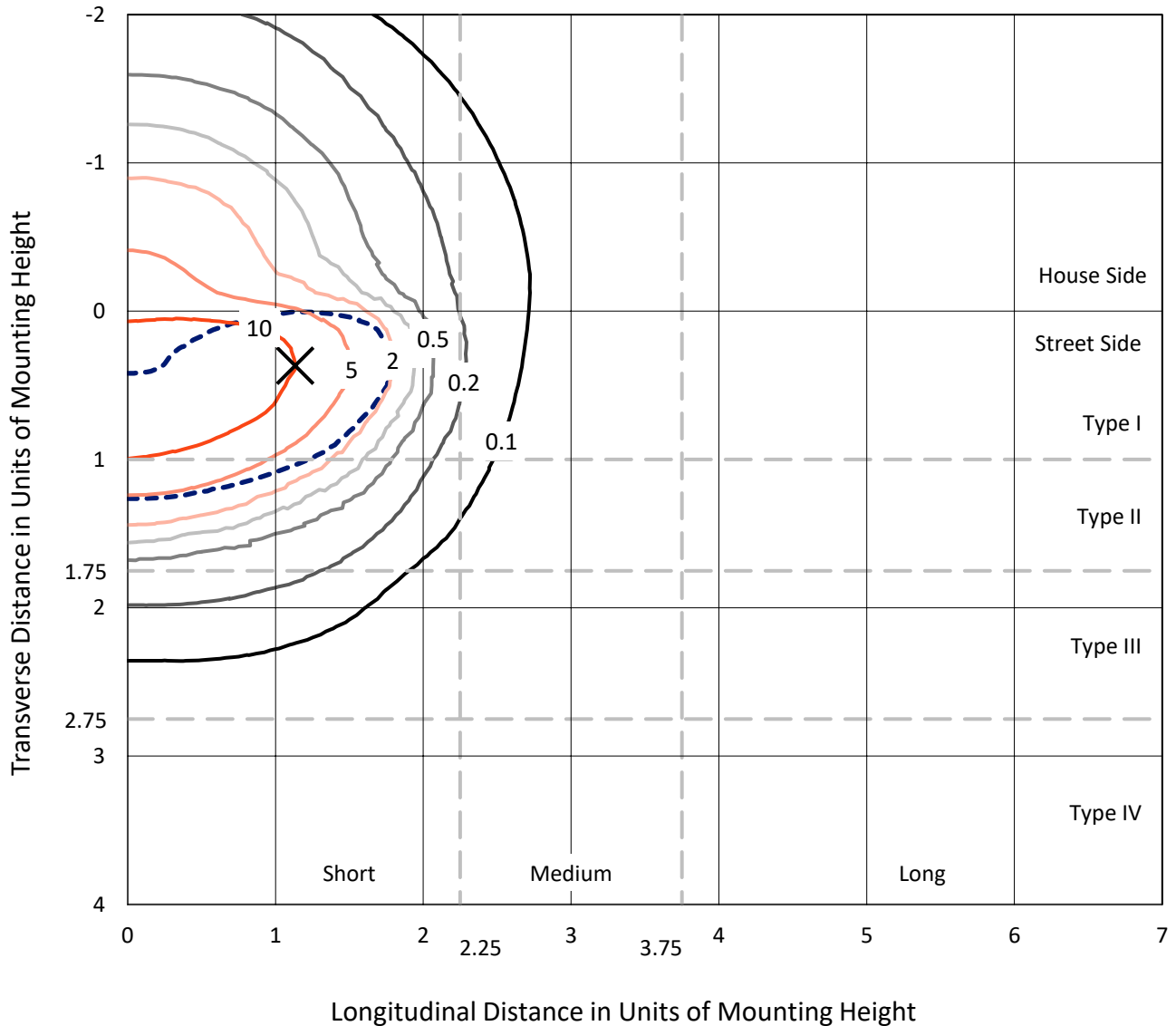
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647512
 CATALOG NUMBER: GALN-SA6D-835-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

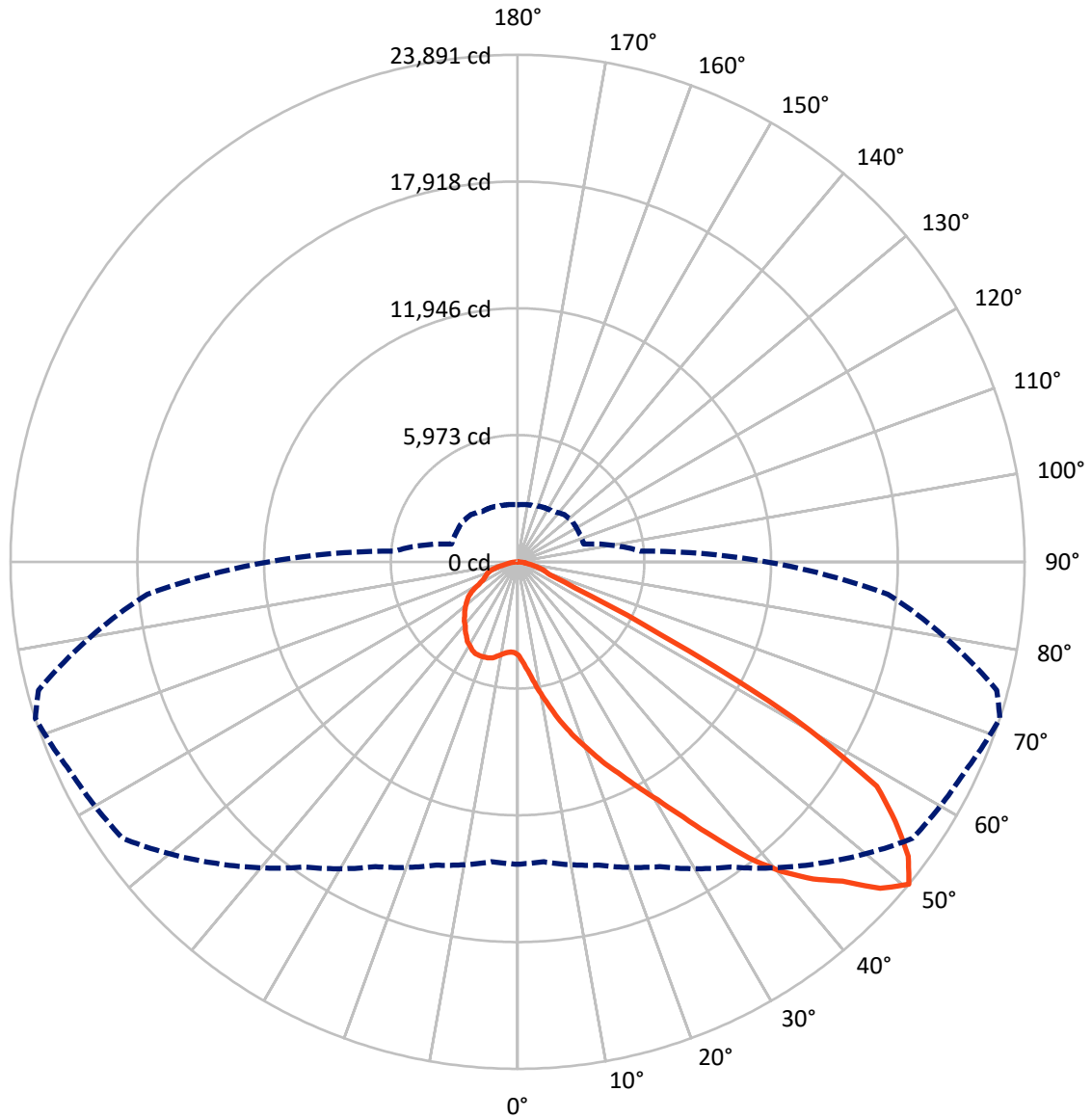
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type II - Short - N/A

REPORT NUMBER: P647512
CATALOG NUMBER: GALN-SA6D-835-U-T2R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P647512
 CATALOG NUMBER: GALN-SA6D-835-U-T2R-GRSWH

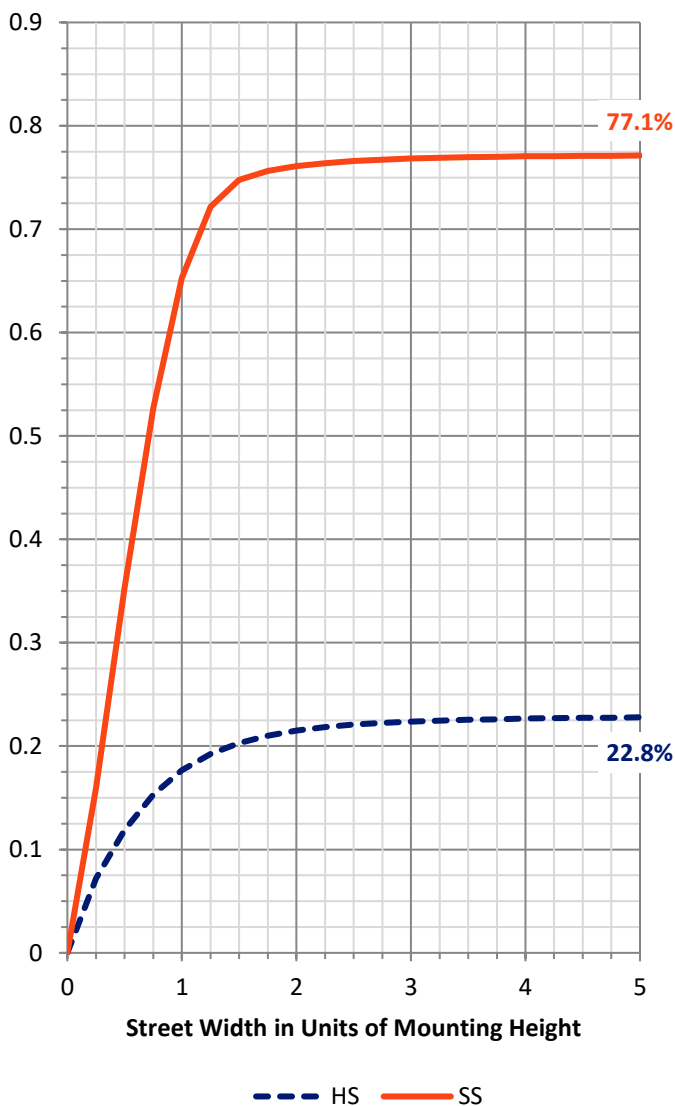
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7231.4	0.0	7231.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	24332.1	0.0	24332.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	31563.5	0.0	31563.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.8	1.6
10°-20°	1932.1	6.1
20°-30°	3746.2	11.9
30°-40°	6206.2	19.7
40°-50°	8683.8	27.5
50°-60°	7325.9	23.2
60°-70°	2232.9	7.1
70°-80°	783.4	2.5
80°-90°	136.2	0.4
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°	31563.5	100.0
0°-180°	31563.5	100.0

Coefficient of Utilization



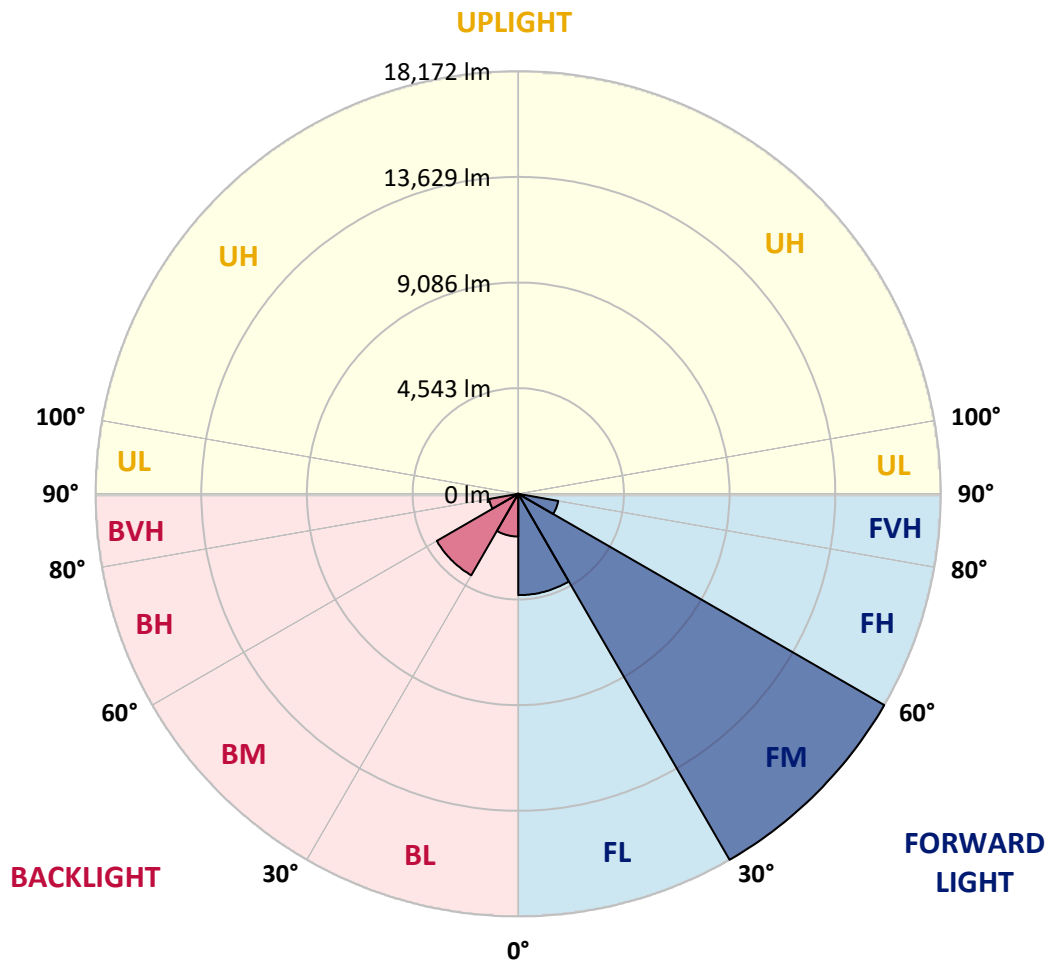
REPORT NUMBER: P647512
 CATALOG NUMBER: GALN-SA6D-835-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4356.9	13.8			
FM (30°-60°)	18172.0	57.6			
FH (60°-80°)	1742.3	5.5			G1/1800
FVH (80°-90°)	61.0	0.2			G1/100
BL (0°-30°)	1838.2	5.8	B3/2500		
BM (30°-60°)	4043.9	12.8	B3/5000		
BH (60°-80°)	1274.0	4.0	B3/2500		G3/2500
BVH (80°-90°)	75.2	0.2			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





REPORT NUMBER: P647512

CATALOG NUMBER: GALN-SA6D-835-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4393.9	4393.9	4393.9	4393.9	4393.9	4393.9	4393.9	4393.9	4393.9	4393.9	4393.9
2.5°	5651.5	5616.4	5510.9	5475.8	5350.8	5124.3	5046.2	4815.8	4718.0	4628.2	4522.8
5°	7147.5	6983.4	6971.7	6772.5	6483.5	6315.5	5815.6	5479.7	5171.2	5014.9	4725.9
7.5°	8100.4	8104.3	8104.3	7940.2	7709.8	7284.1	6835.0	6229.6	5764.8	5534.4	5042.3
10°	9006.5	8928.4	8885.5	8869.8	8713.6	8299.6	7819.2	7069.3	6432.7	6163.2	5280.5
12.5°	9647.1	9580.7	9678.3	9627.5	9514.3	9244.8	8791.8	7936.4	7139.6	6776.4	5663.3
15°	9951.7	9998.6	10076.7	10217.3	10166.6	10065.0	9565.0	8826.9	7901.3	7491.1	6003.0
17.5°	10420.4	10291.5	10385.2	10561.0	10701.6	10654.8	10369.7	9471.3	8655.0	8151.2	6460.1
20°	10748.5	10674.2	10721.1	10924.3	11029.7	11295.2	11146.9	10314.9	9377.6	8846.4	6999.0
22.5°	11685.9	11576.5	11424.2	11455.4	11494.4	11682.0	11717.1	11240.6	10217.3	9654.9	7510.7
25°	12841.9	12740.3	12560.7	12377.2	12263.9	12228.7	12349.8	11967.1	11021.9	10439.9	8061.4
27.5°	14115.2	13943.4	13830.1	13451.2	13146.6	13099.7	13041.1	12834.2	11974.9	11346.1	8682.4
30°	15353.3	15216.6	15064.3	14458.9	14142.5	14091.7	13802.7	13861.3	13009.9	12310.8	9385.4
32.5°	16290.6	16302.4	15954.8	15497.8	15201.0	14931.5	14826.0	14994.0	14337.8	13775.4	10170.5
35°	17048.3	17083.5	16751.5	16337.5	16017.3	16204.7	16157.9	16236.0	15923.6	15236.2	11084.4
37.5°	17786.5	17610.8	17255.4	17056.2	16888.2	17196.8	17595.2	17661.6	17720.2	16911.7	12146.8
40°	17907.6	17923.3	17716.2	17856.9	17645.9	18110.7	19036.4	18950.5	19188.7	18481.8	13298.9
42.5°	17735.8	17770.9	17852.9	18052.1	18559.8	19118.4	20493.2	20141.7	20430.7	19801.9	14419.8
45°	17454.6	17310.0	17411.6	18169.3	19048.1	20290.1	21825.0	21551.6	21457.9	20930.6	15755.6
47.5°	16111.0	16259.4	16575.8	17509.2	18829.3	20493.2	22770.2	22707.7	22989.0	22617.9	16970.3
50°	14248.0	14189.4	14798.7	15849.3	17552.2	20094.8	22719.4	23285.8	23891.1	23375.6	17513.1
52.5°	10670.3	10982.8	11506.2	12810.7	15240.0	17923.3	21610.3	22555.4	23047.5	22938.1	17075.7
55°	6745.2	6838.9	7155.2	8705.8	10893.0	14384.6	18524.8	20715.8	21594.6	22004.7	16673.4
57.5°	3276.9	3101.1	3487.8	4733.7	6292.1	9674.4	14287.0	18044.3	19954.2	20696.3	15798.5
60°	1710.7	1777.1	1929.4	2374.7	3253.4	5022.7	8905.0	12025.6	14943.2	16083.7	11974.9
62.5°	1417.8	1441.2	1542.7	1765.4	2163.7	2890.2	4546.3	5862.5	7620.0	8647.2	6811.6
65°	1202.9	1214.7	1324.1	1472.4	1726.3	2034.9	2339.5	2448.9	2964.4	3042.5	2421.5
67.5°	1003.7	1015.5	1132.7	1273.2	1437.3	1519.3	1597.4	1589.6	1648.2	1624.8	1620.9
70°	773.3	785.0	906.1	1054.5	1136.5	1089.7	1331.8	1386.5	1409.9	1429.5	1460.8
72.5°	558.5	581.9	675.7	781.1	738.2	847.5	1097.5	1179.5	1210.8	1222.5	1261.6
75°	406.2	414.0	437.5	406.2	468.7	589.8	773.3	874.8	913.9	925.7	984.2
77.5°	179.7	183.5	187.5	234.4	300.8	367.1	460.9	542.9	597.6	613.2	628.8
80°	93.7	97.6	121.1	160.1	214.8	269.5	335.9	382.7	417.9	421.8	437.5
82.5°	58.6	62.5	85.9	113.3	152.3	199.2	246.1	285.1	312.4	316.3	320.2
85°	27.3	35.2	50.7	70.3	101.6	128.9	132.8	113.3	121.1	125.0	117.1
87.5°	7.8	11.7	15.7	11.7	15.7	15.7	19.5	23.4	23.4	23.4	27.3
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: P647512

CATALOG NUMBER: GALN-SA6D-835-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4393.9	4393.9	4393.9	4393.9	4393.9	4393.9	4393.9	4393.9	4393.9	4393.9	4393.9
2.5°	4464.2	4429.0	4292.3	4241.6	4108.8	4132.2	4061.9	4058.1	4042.4	4038.5	4034.6
5°	4573.6	4464.2	4300.2	4175.2	4101.0	4093.1	4042.4	4042.4	4058.1	4069.7	4042.4
7.5°	4753.2	4628.2	4351.0	4233.8	4167.4	4155.7	4120.5	4093.1	4128.3	4116.6	4085.4
10°	4960.2	4741.5	4448.6	4347.1	4237.7	4210.3	4210.3	4222.1	4163.4	4183.0	4151.8
12.5°	5190.7	4897.7	4573.6	4456.4	4327.5	4311.9	4304.1	4218.2	4249.4	4233.8	4155.7
15°	5483.6	5077.4	4733.7	4534.5	4425.1	4354.9	4253.3	4237.7	4218.2	4179.1	4143.9
17.5°	5800.0	5272.7	4807.9	4557.9	4393.9	4343.1	4265.0	4183.0	4124.5	4132.2	4104.9
20°	6069.4	5452.3	4835.3	4581.4	4370.5	4272.8	4151.8	4101.0	4038.5	4034.6	4030.6
22.5°	6389.7	5694.5	4874.3	4518.9	4300.2	4198.6	4116.6	4026.8	3983.8	3929.1	3956.5
25°	6772.5	5788.2	4882.1	4483.8	4249.4	4069.7	4026.8	3929.1	3913.5	3835.4	3851.0
27.5°	7049.8	5839.0	4819.6	4374.4	4132.2	3995.5	3917.4	3847.1	3819.8	3761.2	3745.6
30°	7420.8	5917.1	4686.8	4237.7	4015.1	3862.8	3815.9	3800.2	3722.1	3659.7	3651.8
32.5°	7842.6	5967.9	4600.9	4097.0	3894.0	3776.8	3800.2	3726.1	3628.4	3573.7	3558.1
35°	8178.5	5987.4	4386.1	3936.9	3812.0	3737.7	3710.4	3694.8	3554.2	3503.4	3464.4
37.5°	8690.2	5944.5	4206.4	3823.7	3722.1	3694.8	3671.3	3565.9	3405.7	3331.6	3276.9
40°	9287.7	5932.8	3976.0	3663.6	3636.2	3667.4	3597.2	3433.1	3210.5	3128.5	3089.4
42.5°	9861.9	6014.8	3831.5	3577.6	3542.4	3554.2	3456.6	3210.5	3101.1	3054.2	2991.8
45°	10822.7	6186.6	3593.3	3444.8	3429.2	3421.4	3304.2	3046.4	2983.9	2925.4	2913.6
47.5°	11689.7	6073.3	3440.9	3308.1	3323.8	3280.8	3030.8	2948.8	2878.5	2819.9	2800.4
50°	11740.5	5803.8	3226.1	3202.7	3206.5	3132.4	2894.1	2839.5	2749.6	2710.6	2683.2
52.5°	11474.9	5362.5	3026.9	3034.8	3046.4	2925.4	2726.2	2687.1	2612.9	2558.2	2542.6
55°	10729.0	4675.1	2831.6	2862.9	2894.1	2663.7	2601.2	2503.6	2445.0	2366.9	2370.8
57.5°	9451.8	3765.1	2558.2	2609.0	2675.4	2421.5	2374.7	2253.6	2167.7	2105.2	2097.3
60°	6335.0	2679.3	2148.2	2167.7	2316.1	2214.6	2210.6	2089.5	1972.4	1917.7	1886.5
62.5°	3737.7	2046.6	1855.2	1835.7	1831.8	1890.4	1988.0	1945.1	1792.7	1687.3	1718.5
65°	1956.7	1769.3	1726.3	1660.0	1620.9	1605.2	1679.5	1699.0	1597.4	1484.2	1476.3
67.5°	1644.3	1644.3	1609.1	1585.7	1531.0	1464.6	1417.8	1355.3	1339.6	1308.4	1269.3
70°	1495.8	1534.9	1523.2	1468.5	1421.7	1347.5	1226.4	1124.9	1027.2	992.1	1015.5
72.5°	1304.5	1343.5	1343.5	1316.2	1253.7	1140.4	1023.3	906.1	824.1	761.6	753.8
75°	1003.7	1023.3	1070.1	1038.9	956.9	886.6	765.5	644.4	566.3	507.8	496.0
77.5°	640.6	671.8	671.8	667.9	609.3	542.9	464.8	378.8	320.2	277.3	265.6
80°	425.7	445.2	460.9	445.2	406.2	355.4	296.8	238.3	195.3	160.1	152.3
82.5°	312.4	335.9	347.6	332.0	292.9	253.8	210.9	168.0	125.0	97.6	89.8
85°	121.1	125.0	140.6	168.0	164.0	160.1	128.9	93.7	70.3	50.7	46.9
87.5°	31.2	27.3	31.2	31.2	27.3	23.4	23.4	23.4	23.4	11.7	15.7
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)