

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: P531050

Luminaire Tested: **GALN-SA6B-740-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531050
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-SA6B-740-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA 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: 29651 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

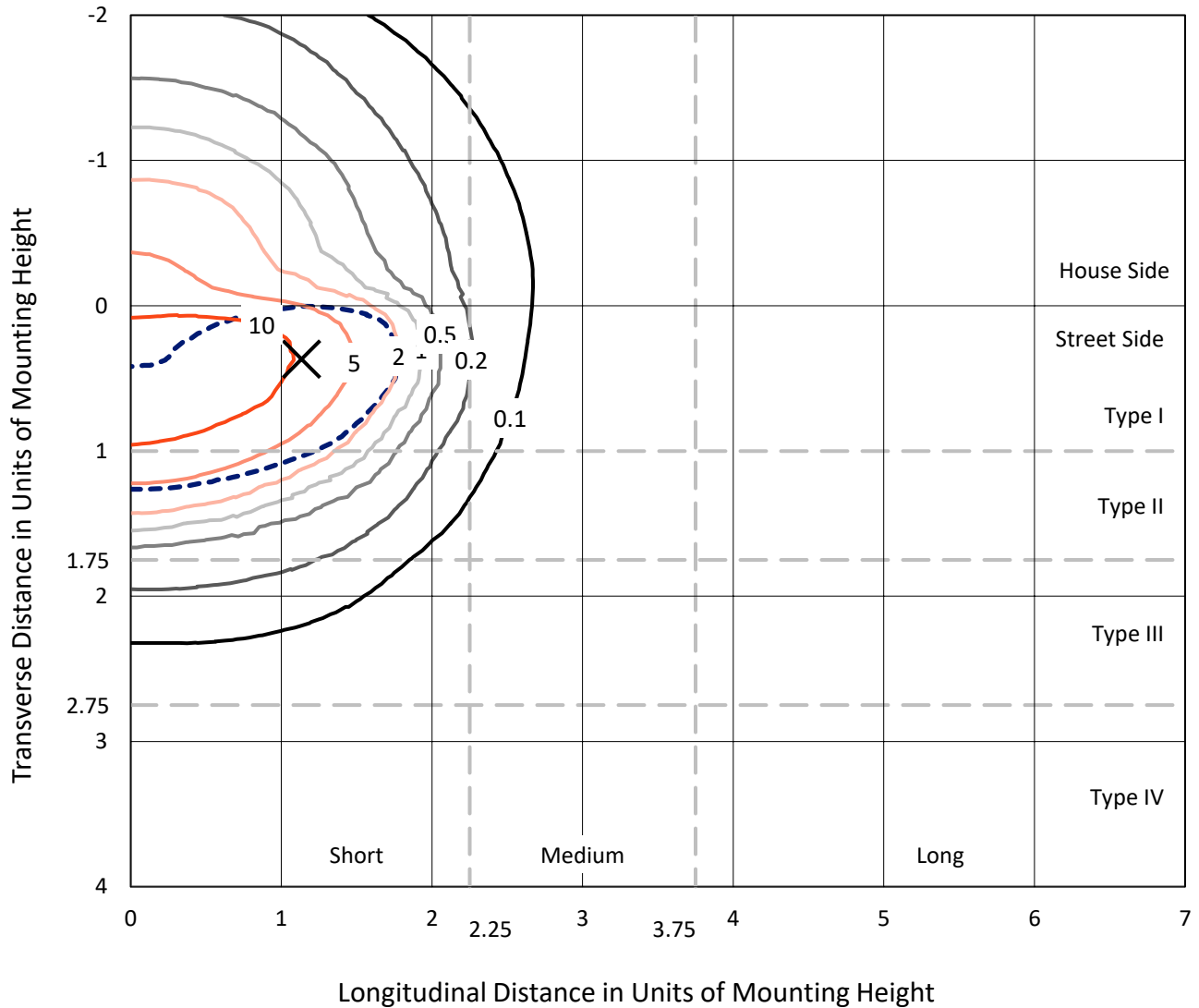
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531050
 CATALOG NUMBER: GALN-SA6B-740-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

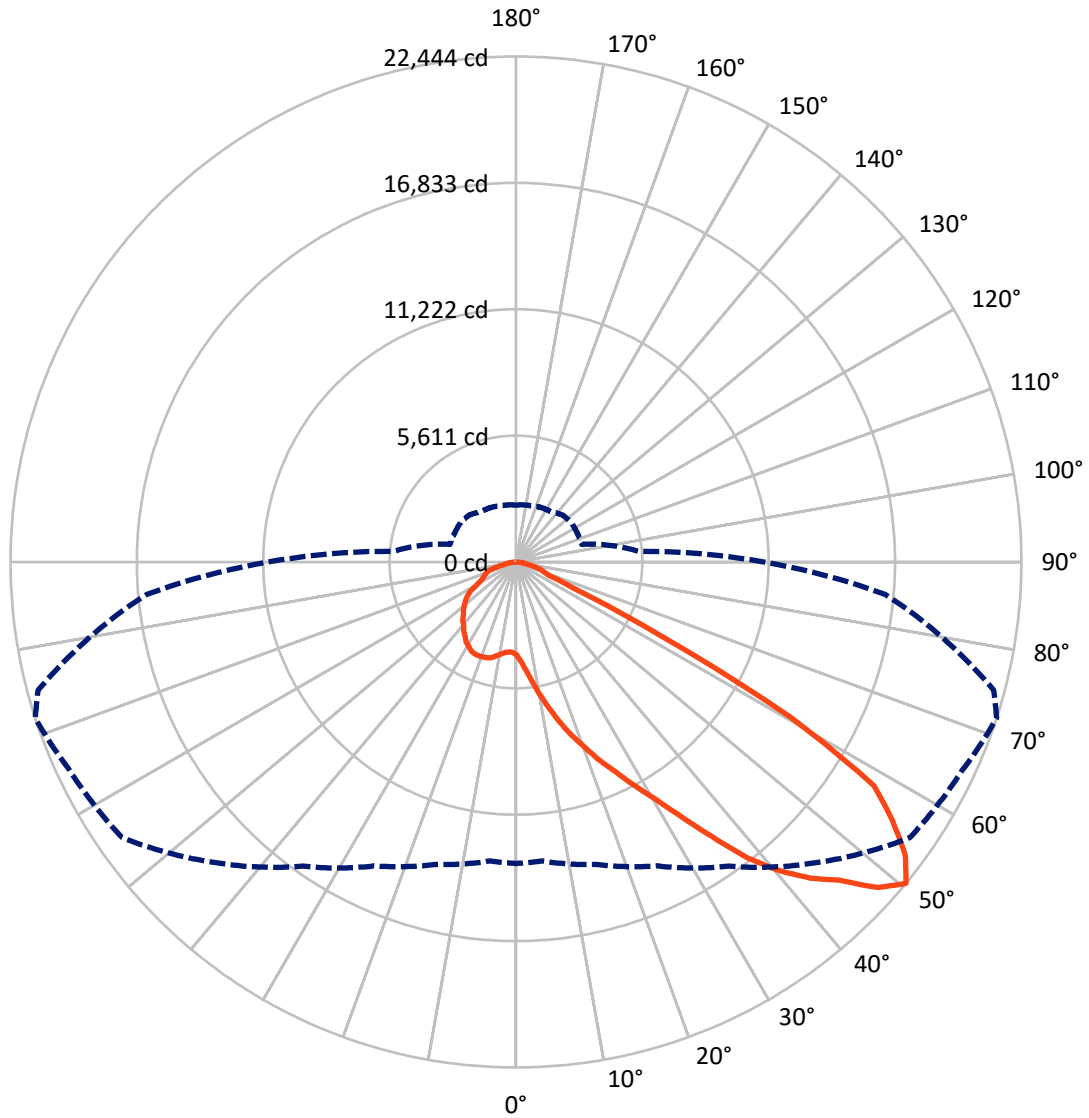
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - N/A

REPORT NUMBER: P531050
CATALOG NUMBER: GALN-SA6B-740-U-T2R-GRSWH

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA6B-740-U-T2R-GRSWH

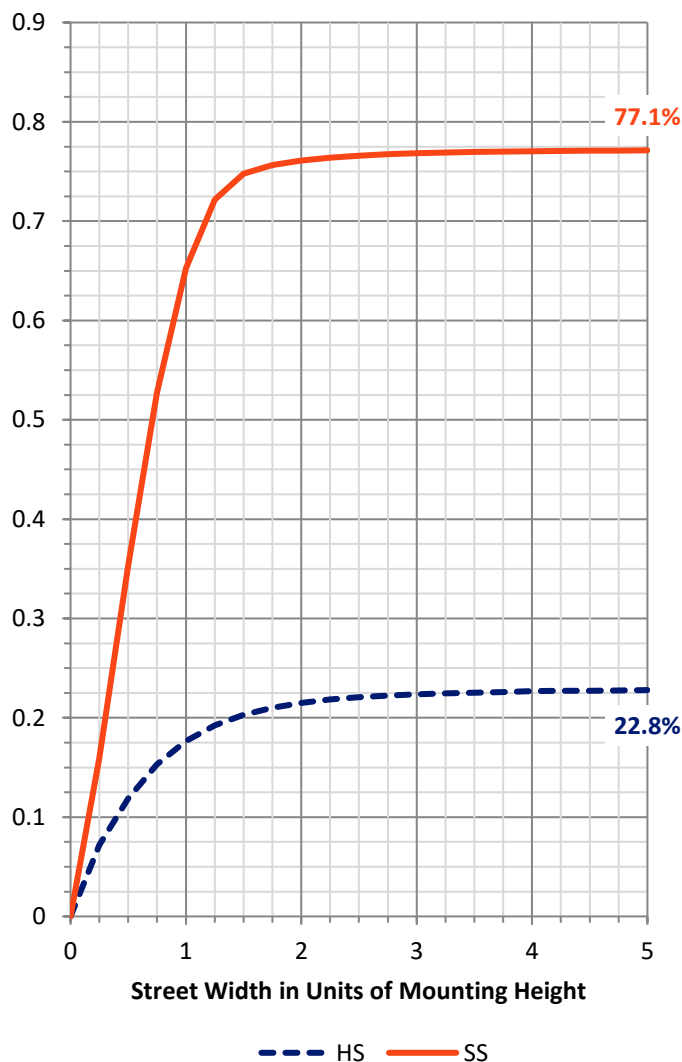
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6793.2	0.0	6793.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	22857.8	0.0	22857.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	29651.0	0.0	29651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.5	1.6
10°-20°	1815.0	6.1
20°-30°	3519.2	11.9
30°-40°	5830.1	19.7
40°-50°	8157.6	27.5
50°-60°	6882.0	23.2
60°-70°	2097.6	7.1
70°-80°	735.9	2.5
80°-90°	127.9	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°	29651.0	100.0
0°-180°	29651.0	100.0

Coefficient of Utilization



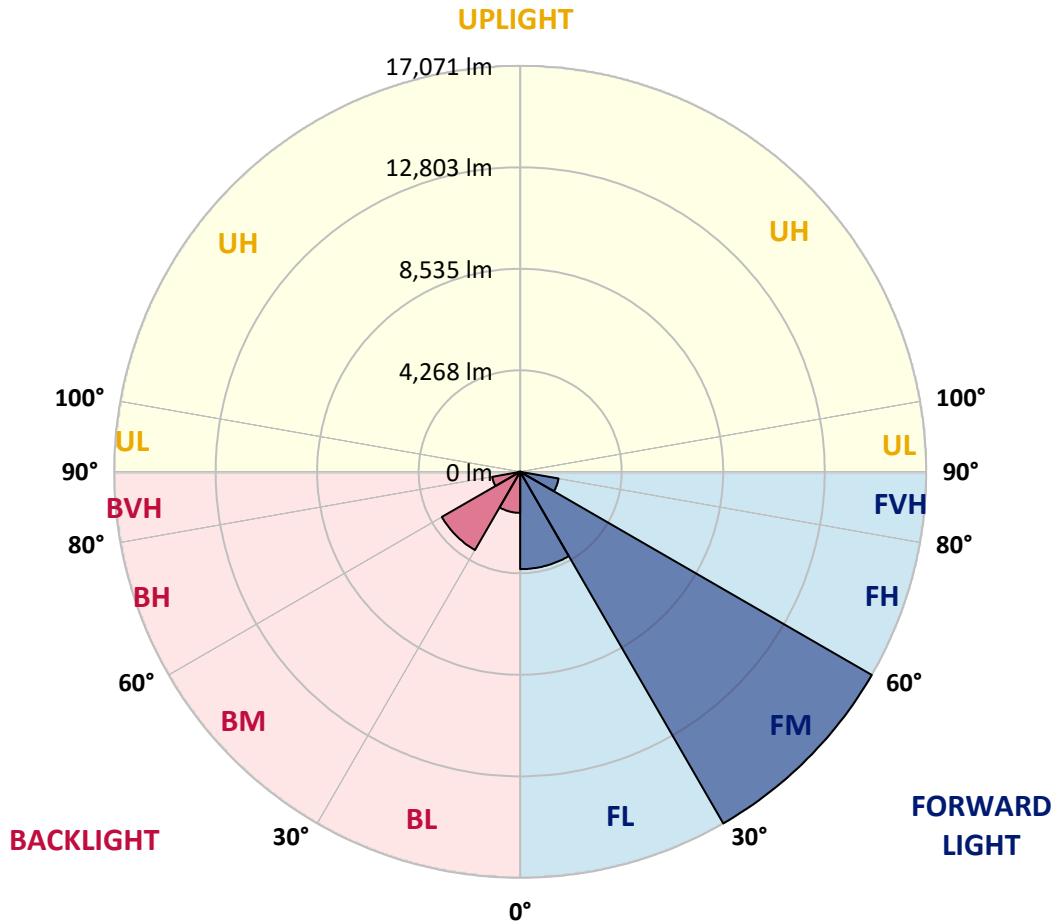
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 CATALOG NUMBER: GALN-SA6B-740-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4092.9	13.8			
FM (30°-60°)	17070.9	57.6			
FH (60°-80°)	1636.7	5.5			G1/1800
FVH (80°-90°)	57.3	0.2			G1/100
BL (0°-30°)	1726.9	5.8	B3/2500		
BM (30°-60°)	3798.9	12.8	B3/5000		
BH (60°-80°)	1196.8	4.0	B3/2500		G3/2500
BVH (80°-90°)	70.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4127.7	4127.7	4127.7	4127.7	4127.7	4127.7	4127.7	4127.7	4127.7	4127.7	4127.7
2.5°	5309.1	5276.1	5177.0	5144.0	5026.6	4813.8	4740.4	4523.9	4432.2	4347.8	4248.8
5°	6714.3	6560.2	6549.2	6362.1	6090.6	5932.8	5463.2	5147.7	4857.8	4711.0	4439.5
7.5°	7609.6	7613.3	7613.3	7459.2	7242.7	6842.8	6420.8	5852.1	5415.5	5199.0	4736.7
10°	8460.8	8387.4	8347.1	8332.4	8185.6	7796.7	7345.4	6641.0	6042.9	5789.7	4960.5
12.5°	9062.5	9000.2	9091.9	9044.2	8937.8	8684.6	8259.0	7455.5	6707.0	6365.8	5320.1
15°	9348.7	9392.7	9466.1	9598.2	9550.5	9455.1	8985.5	8292.0	7422.5	7037.2	5639.3
17.5°	9789.0	9667.9	9756.0	9921.1	10053.2	10009.1	9741.3	8897.4	8130.6	7657.3	6068.6
20°	10097.2	10027.5	10071.5	10262.3	10361.4	10610.9	10471.4	9689.9	8809.4	8310.4	6574.9
22.5°	10977.8	10875.0	10731.9	10761.3	10798.0	10974.1	11007.1	10559.5	9598.2	9069.9	7055.6
25°	12063.8	11968.4	11799.6	11627.2	11520.8	11487.8	11601.5	11241.9	10354.0	9807.3	7572.9
27.5°	13259.9	13098.5	12992.1	12636.2	12350.0	12306.0	12250.9	12056.5	11249.3	10658.6	8156.3
30°	14423.0	14294.6	14151.5	13582.8	13285.6	13237.9	12966.4	13021.4	12221.6	11564.8	8816.7
32.5°	15303.6	15314.6	14988.0	14558.8	14279.9	14026.7	13927.7	14085.5	13469.1	12940.7	9554.2
35°	16015.4	16048.4	15736.5	15347.6	15046.7	15222.9	15178.8	15252.2	14958.7	14312.9	10412.7
37.5°	16708.8	16543.7	16209.8	16022.7	15864.9	16154.8	16529.0	16591.4	16646.4	15887.0	11410.7
40°	16822.6	16837.2	16642.8	16774.9	16576.7	17013.3	17882.9	17802.2	18026.0	17361.9	12493.1
42.5°	16661.1	16694.1	16771.2	16958.3	17435.3	17960.0	19251.5	18921.2	19192.8	18602.0	13546.1
45°	16396.9	16261.2	16356.6	17068.4	17893.9	19060.7	20502.6	20245.8	20157.7	19662.4	14800.9
47.5°	15134.8	15274.2	15571.4	16448.3	17688.5	19251.5	21390.5	21331.8	21596.0	21247.4	15942.0
50°	13384.7	13329.6	13902.0	14889.0	16488.7	18877.2	21342.8	21874.8	22443.5	21959.2	16452.0
52.5°	10023.8	10317.3	10809.0	12034.5	14316.6	16837.2	20300.8	21188.7	21651.0	21548.3	16041.1
55°	6336.4	6424.5	6721.7	8178.3	10233.0	13513.1	17402.3	19460.6	20286.1	20671.4	15663.1
57.5°	3078.3	2913.2	3276.5	4446.9	5910.8	9088.2	13421.4	16951.0	18745.1	19442.3	14841.3
60°	1607.0	1669.4	1812.5	2230.8	3056.3	4718.4	8365.4	11297.0	14037.8	15109.1	11249.3
62.5°	1331.9	1353.9	1449.3	1658.4	2032.6	2715.1	4270.8	5507.2	7158.3	8123.3	6398.8
65°	1130.1	1141.1	1243.8	1383.2	1621.7	1911.6	2197.8	2300.5	2784.8	2858.2	2274.8
67.5°	942.9	954.0	1064.0	1196.1	1350.2	1427.3	1500.6	1493.3	1548.3	1526.3	1522.7
70°	726.5	737.5	851.2	990.6	1067.7	1023.7	1251.1	1302.5	1324.5	1342.9	1372.2
72.5°	524.7	546.7	634.7	733.8	693.4	796.2	1031.0	1108.1	1137.4	1148.4	1185.1
75°	381.6	388.9	410.9	381.6	440.3	554.0	726.5	821.9	858.6	869.6	924.6
77.5°	168.8	172.4	176.1	220.1	282.5	344.9	432.9	510.0	561.4	576.0	590.7
80°	88.1	91.7	113.7	150.4	201.8	253.2	315.5	359.6	392.6	396.3	410.9
82.5°	55.0	58.7	80.7	106.4	143.1	187.1	231.1	267.8	293.5	297.2	300.9
85°	25.7	33.0	47.7	66.0	95.4	121.1	124.7	106.4	113.7	117.4	110.1
87.5°	7.3	11.0	14.7	11.0	14.7	14.7	18.3	22.0	22.0	22.0	25.7
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: P531050

CATALOG NUMBER: GALN-SA6B-740-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4127.7	4127.7	4127.7	4127.7	4127.7	4127.7	4127.7	4127.7	4127.7	4127.7	4127.7
2.5°	4193.7	4160.7	4032.3	3984.6	3859.8	3881.8	3815.8	3812.1	3797.5	3793.8	3790.1
5°	4296.4	4193.7	4039.6	3922.2	3852.5	3845.2	3797.5	3797.5	3812.1	3823.1	3797.5
7.5°	4465.2	4347.8	4087.3	3977.2	3914.9	3903.9	3870.8	3845.2	3878.2	3867.2	3837.8
10°	4659.7	4454.2	4179.0	4083.6	3980.9	3955.2	3955.2	3966.2	3911.2	3929.5	3900.2
12.5°	4876.2	4601.0	4296.4	4186.4	4065.3	4050.6	4043.3	3962.6	3991.9	3977.2	3903.9
15°	5151.3	4769.8	4446.9	4259.8	4157.0	4091.0	3995.6	3980.9	3962.6	3925.9	3892.9
17.5°	5448.5	4953.2	4516.6	4281.8	4127.7	4080.0	4006.6	3929.5	3874.5	3881.8	3856.2
20°	5701.7	5122.0	4542.3	4303.8	4105.7	4013.9	3900.2	3852.5	3793.8	3790.1	3786.5
22.5°	6002.6	5349.5	4579.0	4245.1	4039.6	3944.2	3867.2	3782.8	3742.4	3691.1	3716.7
25°	6362.1	5437.5	4586.3	4212.1	3991.9	3823.1	3782.8	3691.1	3676.4	3603.0	3617.7
27.5°	6622.6	5485.2	4527.6	4109.3	3881.8	3753.4	3680.0	3614.0	3588.3	3533.3	3518.6
30°	6971.2	5558.6	4402.9	3980.9	3771.8	3628.7	3584.7	3570.0	3496.6	3437.9	3430.6
32.5°	7367.4	5606.3	4322.1	3848.8	3658.0	3548.0	3570.0	3500.3	3408.5	3357.2	3342.5
35°	7683.0	5624.6	4120.3	3698.4	3581.0	3511.3	3485.6	3470.9	3338.8	3291.1	3254.4
37.5°	8163.6	5584.3	3951.6	3592.0	3496.6	3470.9	3448.9	3349.8	3199.4	3129.7	3078.3
40°	8725.0	5573.3	3735.1	3441.6	3415.9	3445.2	3379.2	3225.1	3016.0	2938.9	2902.2
42.5°	9264.3	5650.3	3599.3	3360.8	3327.8	3338.8	3247.1	3016.0	2913.2	2869.2	2810.5
45°	10166.9	5811.8	3375.5	3236.1	3221.4	3214.1	3104.0	2861.9	2803.1	2748.1	2737.1
47.5°	10981.4	5705.4	3232.4	3107.7	3122.4	3082.0	2847.2	2770.1	2704.1	2649.0	2630.7
50°	11029.1	5452.2	3030.6	3008.6	3012.3	2942.6	2718.8	2667.4	2583.0	2546.3	2520.6
52.5°	10779.6	5037.6	2843.5	2850.8	2861.9	2748.1	2561.0	2524.3	2454.6	2403.2	2388.5
55°	10078.9	4391.8	2660.1	2689.4	2718.8	2502.3	2443.6	2351.9	2296.8	2223.4	2227.1
57.5°	8879.1	3537.0	2403.2	2450.9	2513.3	2274.8	2230.8	2117.0	2036.3	1977.6	1970.3
60°	5951.2	2517.0	2018.0	2036.3	2175.7	2080.3	2076.7	1962.9	1852.9	1801.5	1772.1
62.5°	3511.3	1922.6	1742.8	1724.4	1720.8	1775.8	1867.5	1827.2	1684.1	1585.0	1614.4
65°	1838.2	1662.1	1621.7	1559.3	1522.7	1508.0	1577.7	1596.0	1500.6	1394.2	1386.9
67.5°	1544.7	1544.7	1511.6	1489.6	1438.3	1375.9	1331.9	1273.2	1258.5	1229.1	1192.4
70°	1405.2	1441.9	1430.9	1379.6	1335.5	1265.8	1152.1	1056.7	965.0	931.9	954.0
72.5°	1225.5	1262.2	1262.2	1236.5	1177.8	1071.4	961.3	851.2	774.2	715.5	708.1
75°	942.9	961.3	1005.3	976.0	898.9	832.9	719.1	605.4	532.0	477.0	466.0
77.5°	601.7	631.1	631.1	627.4	572.4	510.0	436.6	355.9	300.9	260.5	249.5
80°	399.9	418.3	432.9	418.3	381.6	333.9	278.8	223.8	183.5	150.4	143.1
82.5°	293.5	315.5	326.5	311.9	275.2	238.5	198.1	157.8	117.4	91.7	84.4
85°	113.7	117.4	132.1	157.8	154.1	150.4	121.1	88.1	66.0	47.7	44.0
87.5°	29.4	25.7	29.4	29.4	25.7	22.0	22.0	22.0	22.0	11.0	14.7
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)