

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P643732

Luminaire Tested: GWS-SA6F-740-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-740-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49343.7 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

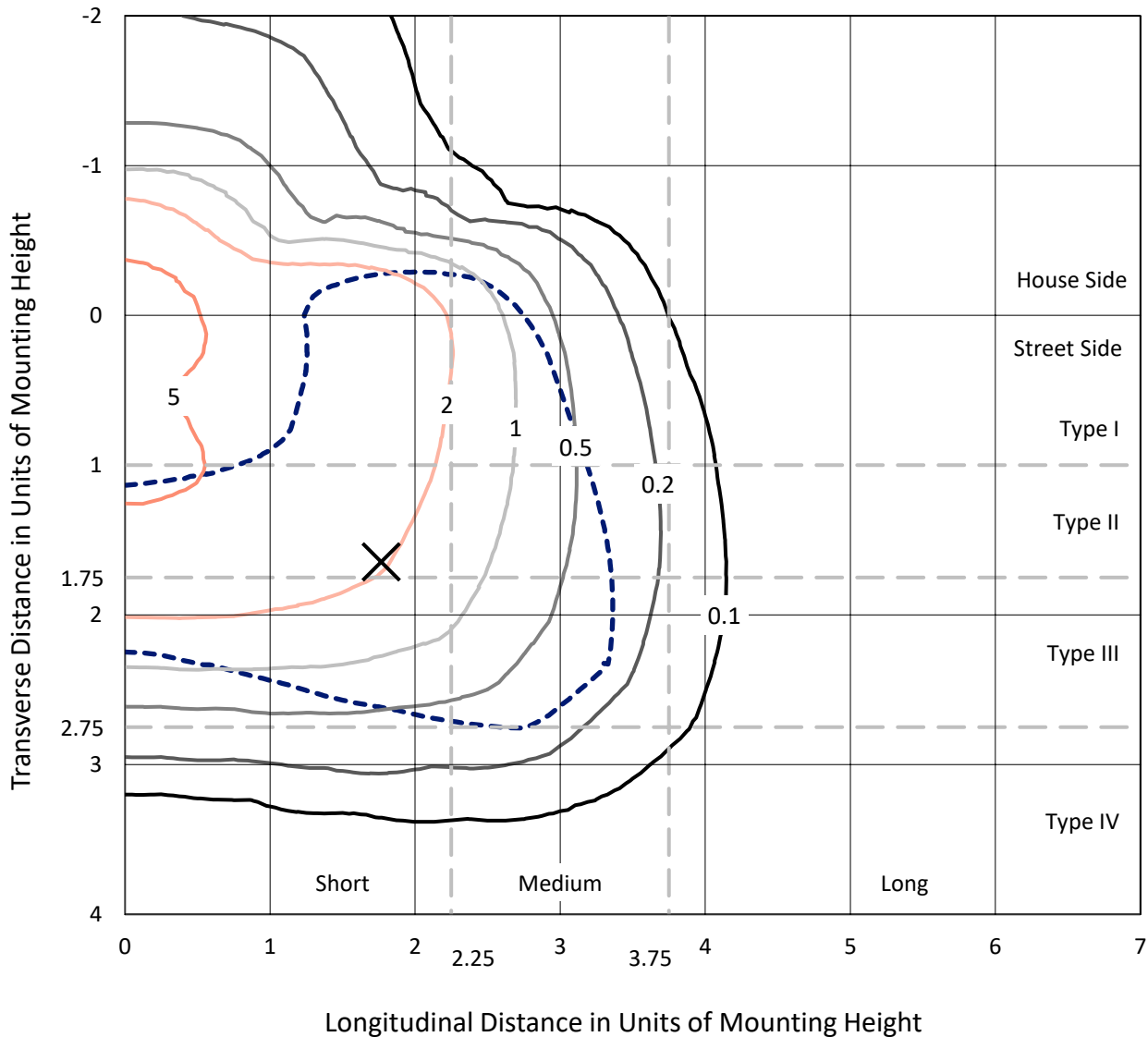
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643732
 CATALOG NUMBER: GWS-SA6F-740-U-T4W-W

Iso-Footcandle Lines of Horizontal Illumination

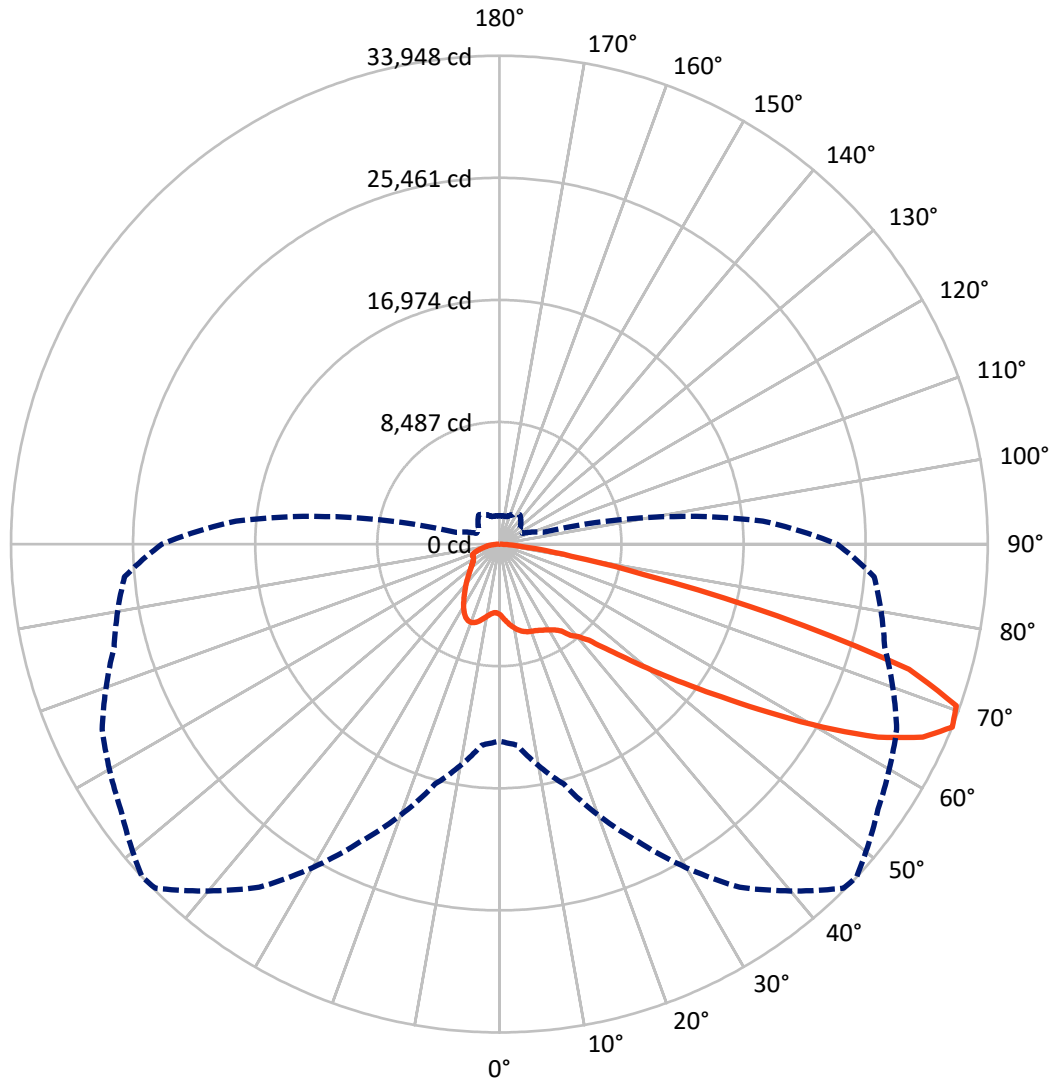
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

REPORT NUMBER: P643732
CATALOG NUMBER: GWS-SA6F-740-U-T4W-W

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P643732

CATALOG NUMBER: GWS-SA6F-740-U-T4W-W

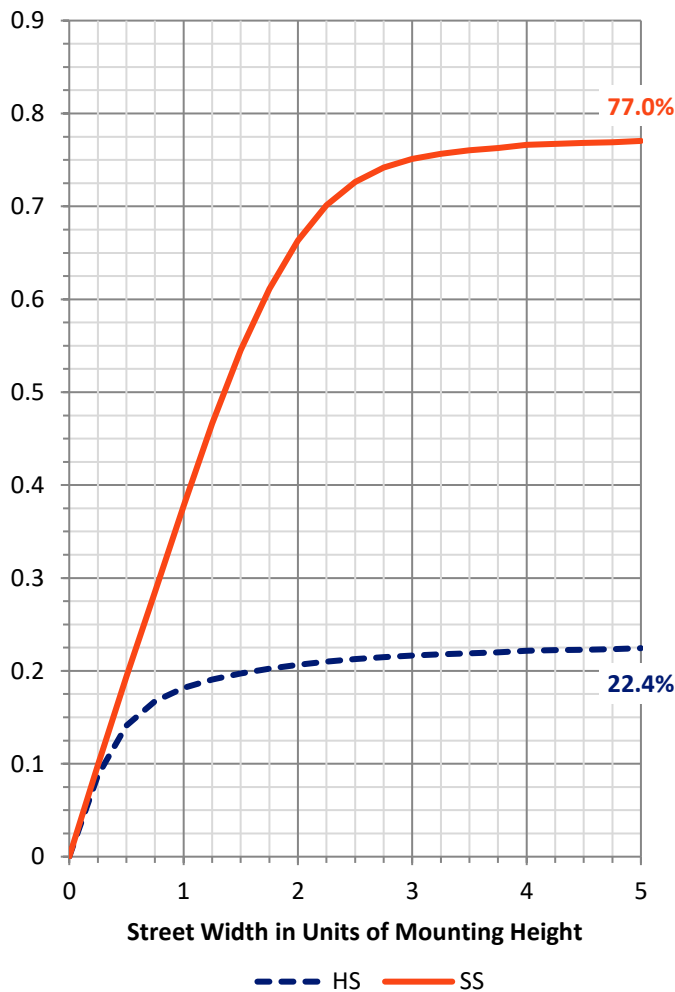
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11245.8	0.0	11245.8
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	38097.9	0.0	38097.9
	% Fixture	77.2	0.0	77.2
Total	Lumens	49343.7	0.0	49343.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.9	1.0
10°-20°	1665.5	3.4
20°-30°	2831.0	5.7
30°-40°	4147.1	8.4
40°-50°	6318.6	12.8
50°-60°	11305.3	22.9
60°-70°	15085.7	30.6
70°-80°	6822.1	13.8
80°-90°	668.4	1.4
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°	49343.7	100.0
0°-180°	49343.7	100.0

Coefficient of Utilization



REPORT NUMBER: P643732

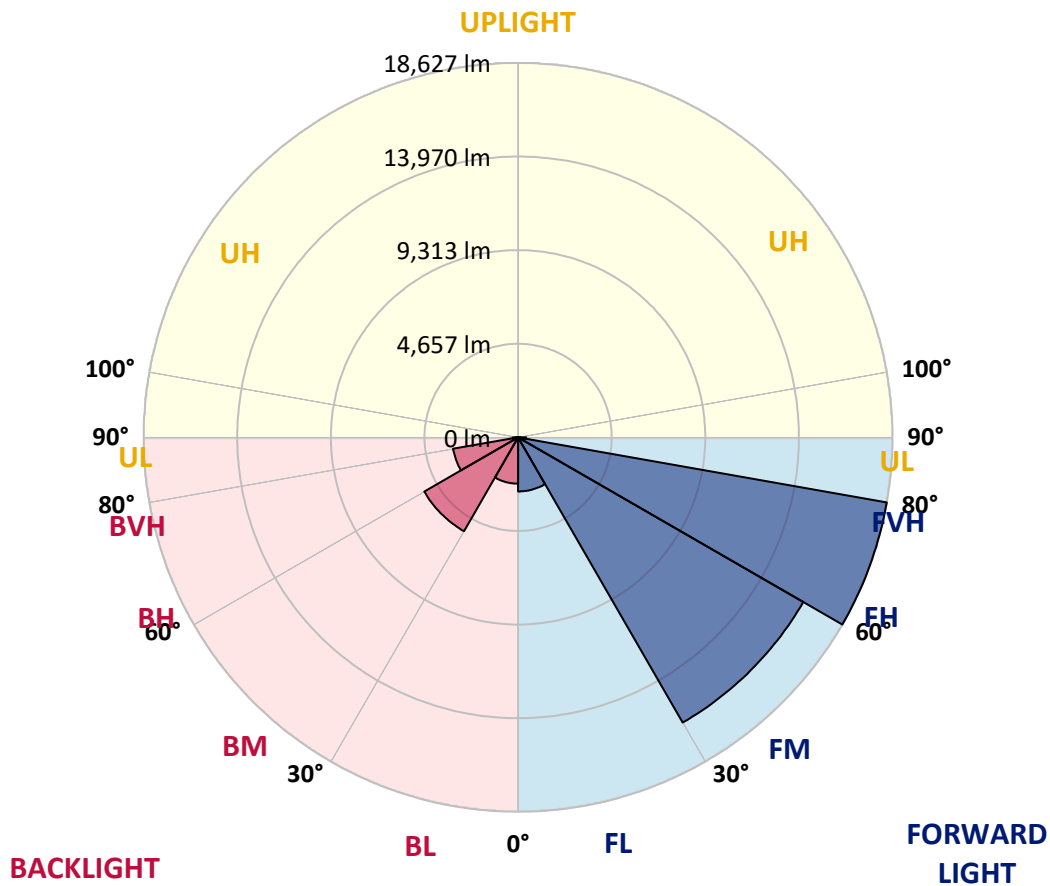
CATALOG NUMBER: GWS-SA6F-740-U-T4W-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2691.0	5.5			
FM (30°-60°)	16382.6	33.2			
FH (60°-80°)	18626.7	37.7			G5
FVH (80°-90°)	397.6	0.8			G3/500
BL (0°-30°)	2305.4	4.7	B3/2500		
BM (30°-60°)	5388.4	10.9	B4/8500		
BH (60°-80°)	3281.2	6.6	B4/5000		G4/5000
BVH (80°-90°)	270.8	0.5			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 III Short





REPORT NUMBER: P643732
 CATALOG NUMBER: GWS-SA6F-740-U-T4W-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4891.5	4891.5	4891.5	4891.5	4891.5	4891.5	4891.5	4891.5	4891.5	4891.5	4891.5
2.5°	5216.2	5234.0	5230.5	5201.9	5184.1	5152.0	5155.5	5105.6	5030.7	4980.7	4923.6
5°	5676.4	5705.0	5669.3	5622.9	5551.6	5448.1	5437.4	5323.2	5180.5	5080.6	4977.2
7.5°	6076.0	6093.9	6051.1	5972.6	5869.1	5730.0	5705.0	5569.4	5391.0	5234.0	5084.2
10°	6386.5	6407.9	6350.8	6247.3	6111.7	5972.6	5954.7	5815.6	5626.5	5441.0	5251.9
12.5°	6650.5	6657.6	6597.0	6457.8	6311.5	6168.8	6151.0	6022.5	5847.7	5658.6	5451.7
15°	6803.9	6807.5	6732.5	6579.1	6440.0	6315.1	6304.4	6193.8	6033.2	5854.8	5633.6
17.5°	6793.2	6800.3	6746.8	6611.2	6489.9	6415.0	6404.3	6332.9	6208.1	6047.5	5826.3
20°	6661.2	6668.3	6632.6	6543.4	6479.2	6457.8	6461.4	6440.0	6365.0	6233.0	6008.3
22.5°	6557.7	6568.4	6536.3	6472.1	6464.9	6514.9	6525.6	6536.3	6500.6	6382.9	6165.2
25°	6607.7	6625.5	6575.5	6486.4	6500.6	6611.2	6632.6	6668.3	6639.8	6539.9	6350.8
27.5°	6953.7	6964.4	6836.0	6654.0	6611.2	6729.0	6761.1	6818.2	6796.8	6704.0	6557.7
30°	7756.5	7749.4	7474.6	7028.7	6850.3	6896.7	6921.6	7003.7	7010.8	6950.2	6811.0
32.5°	8887.5	8851.8	8427.3	7717.3	7199.9	7085.7	7114.3	7224.9	7307.0	7242.7	7053.6
35°	10082.7	10050.6	9583.2	8751.9	7845.7	7449.7	7417.6	7503.2	7628.1	7449.7	7178.5
37.5°	11220.9	11170.9	10692.8	9665.3	8641.3	8088.3	8041.9	7956.3	7881.4	7538.9	7331.9
40°	12483.9	12426.8	12009.4	10846.3	9519.0	8577.1	8459.4	8120.4	8052.6	7835.0	7731.5
42.5°	13832.6	13832.6	13486.5	12341.2	10578.7	9276.4	9123.0	8612.8	8684.1	8541.4	8420.1
45°	15181.2	15220.4	14945.7	13846.8	11995.1	10596.5	10350.3	9626.1	9797.3	9733.1	9672.4
47.5°	16330.0	16405.0	16351.5	15384.6	13729.1	12202.0	11827.4	11074.6	11442.1	11595.5	11766.8
50°	17568.1	17650.2	17596.6	17214.9	15759.2	14146.5	13811.1	13033.4	13664.9	14125.1	14685.3
52.5°	19405.5	19523.3	19077.3	18931.0	18224.6	16355.0	16055.3	15170.5	16315.8	17079.3	18328.0
55°	20957.6	20954.0	20797.0	21132.4	20871.9	19055.9	18724.1	17921.3	19384.1	20194.0	22020.8
57.5°	21678.3	21763.9	22302.6	23251.7	23772.6	22356.1	22038.6	21218.0	22677.3	23098.3	25071.3
60°	22049.3	22156.3	23198.2	25074.8	26477.0	25959.7	25834.8	24789.4	25610.0	25560.1	27643.7
62.5°	21528.4	21742.5	23415.8	25909.7	28407.2	29581.0	29541.8	27961.2	28104.0	27615.2	29238.5
65°	19137.9	19369.9	21995.8	25492.3	29509.7	32335.4	32346.1	30833.4	30019.9	28614.2	28970.9
67.5°	13686.3	14018.1	17264.8	22809.3	29120.8	33823.2	33948.1	32135.6	30469.4	27729.3	26159.5
70°	7460.4	7703.0	10246.9	16579.8	25617.2	33466.4	33698.3	31507.7	28485.7	23986.7	20136.9
72.5°	3389.5	3468.0	4766.6	9098.0	17500.3	28806.8	29777.3	28118.2	23394.4	17717.9	12805.0
75°	1552.0	1587.7	2076.5	4352.8	9144.4	19277.1	19958.6	20943.3	16280.1	11188.8	6675.4
77.5°	974.0	984.7	1181.0	1990.9	4559.7	9622.5	10339.6	12469.6	9533.3	5537.3	2790.1
80°	574.4	585.1	735.0	1077.5	2140.7	4402.7	5084.2	4930.8	4481.2	2390.5	1270.2
82.5°	289.0	299.7	424.6	613.7	1166.7	1751.8	2062.2	2072.9	1669.8	1295.1	717.1
85°	103.5	107.0	139.1	242.6	495.9	578.0	645.8	788.5	817.0	752.8	346.1
87.5°	0.0	0.0	3.6	7.1	14.3	57.1	60.7	114.2	239.0	267.6	139.1
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: P643732
 CATALOG NUMBER: GWS-SA6F-740-U-T4W-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4891.5	4891.5	4891.5	4891.5	4891.5	4891.5	4891.5	4891.5	4891.5	4891.5	4891.5
2.5°	4905.8	4852.3	4834.4	4816.6	4788.1	4777.4	4755.9	4734.5	4734.5	4713.1	4702.4
5°	4930.8	4859.4	4813.0	4791.6	4773.8	4784.5	4784.5	4791.6	4816.6	4802.3	4809.5
7.5°	5020.0	4937.9	4873.7	4855.8	4855.8	4898.7	4927.2	4962.9	5009.3	5016.4	5016.4
10°	5177.0	5080.6	5012.8	5002.1	5020.0	5080.6	5123.4	5166.2	5223.3	5226.9	5234.0
12.5°	5348.2	5251.9	5184.1	5198.4	5216.2	5294.7	5341.1	5376.7	5433.8	5433.8	5430.3
15°	5526.6	5419.6	5362.5	5391.0	5444.5	5533.7	5540.9	5544.4	5573.0	5565.8	5562.3
17.5°	5712.1	5598.0	5555.1	5598.0	5655.0	5697.9	5662.2	5612.2	5601.5	5587.3	5580.1
20°	5894.1	5776.3	5758.5	5790.6	5808.5	5772.8	5662.2	5569.4	5526.6	5505.2	5498.1
22.5°	6051.1	5951.2	5940.5	5940.5	5851.3	5726.4	5562.3	5437.4	5380.3	5351.8	5344.6
25°	6236.6	6143.8	6126.0	6029.7	5801.3	5573.0	5351.8	5237.6	5191.2	5177.0	5180.5
27.5°	6454.2	6390.0	6332.9	6058.2	5658.6	5301.8	5052.1	5002.1	4984.3	5002.1	5012.8
30°	6721.8	6657.6	6529.2	6022.5	5430.3	4948.6	4709.6	4706.0	4759.5	4805.9	4813.0
32.5°	6939.5	6910.9	6700.4	5908.4	5109.2	4559.7	4356.3	4370.6	4466.9	4531.2	4541.9
35°	7110.7	7157.1	6843.1	5719.3	4727.4	4192.2	4031.7	4038.8	4092.3	4181.5	4185.1
37.5°	7353.3	7510.3	6971.6	5430.3	4288.6	3874.7	3728.4	3674.9	3667.7	3692.7	3699.9
40°	7842.1	8077.6	7064.3	5009.3	3864.0	3589.3	3425.1	3321.7	3232.5	3164.7	3143.3
42.5°	8580.7	8851.8	7117.9	4499.1	3485.8	3307.4	3121.9	2989.9	2832.9	2690.2	2640.2
45°	9936.5	10025.7	7117.9	3956.7	3150.4	3043.4	2857.8	2700.9	2501.1	2333.4	2297.7
47.5°	12105.7	11820.3	7125.0	3432.3	2854.3	2811.5	2650.9	2472.5	2251.3	2112.2	2090.8
50°	15373.9	14371.3	7271.3	2997.0	2608.1	2615.2	2497.5	2301.3	2101.5	1998.0	1980.2
52.5°	19077.3	17514.6	7663.7	2675.9	2401.2	2454.7	2390.5	2201.4	2023.0	1933.8	1915.9
55°	22559.5	20404.5	7999.1	2447.5	2226.3	2319.1	2315.5	2140.7	1980.2	1891.0	1880.3
57.5°	25520.8	22384.7	7949.2	2262.0	2076.5	2194.2	2247.7	2101.5	1951.6	1876.7	1866.0
60°	27361.8	23433.6	7239.2	2090.8	1962.3	2105.0	2208.5	2090.8	1965.9	1948.0	1951.6
62.5°	28161.0	23241.0	5876.2	1962.3	1887.4	2062.2	2251.3	2165.7	2097.9	2140.7	2165.7
65°	26919.4	21585.5	4324.2	1866.0	1816.0	2072.9	2351.2	2283.4	2097.9	2126.4	2137.1
67.5°	23472.9	18374.4	3125.4	1769.7	1726.8	2105.0	2493.9	2265.6	1976.6	1976.6	1955.2
70°	16915.2	13215.3	2269.2	1673.3	1637.6	2058.6	2501.1	2144.3	1837.4	1826.7	1773.2
72.5°	10179.1	7795.8	1769.7	1566.3	1502.1	1826.7	2344.1	2001.6	1701.9	1612.7	1548.4
75°	5287.6	3906.8	1484.2	1448.5	1288.0	1548.4	2144.3	1780.4	1455.7	1377.2	1341.5
77.5°	2265.6	1826.7	1273.7	1291.6	1070.4	1302.3	1730.4	1541.3	1291.6	1191.7	1159.6
80°	1116.7	1038.2	1006.1	1034.7	856.3	1006.1	1491.4	1348.6	1095.3	981.2	934.8
82.5°	638.6	606.5	724.3	735.0	610.1	842.0	1259.5	1141.7	906.2	781.4	706.4
85°	296.1	317.5	438.8	442.4	378.2	578.0	824.2	642.2	481.7	399.6	381.8
87.5°	117.7	139.1	192.7	189.1	110.6	107.0	71.4	39.2	32.1	28.5	25.0
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)