

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: P638690

Luminaire Tested: GWS-SA4F-735-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-735-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28582.1 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

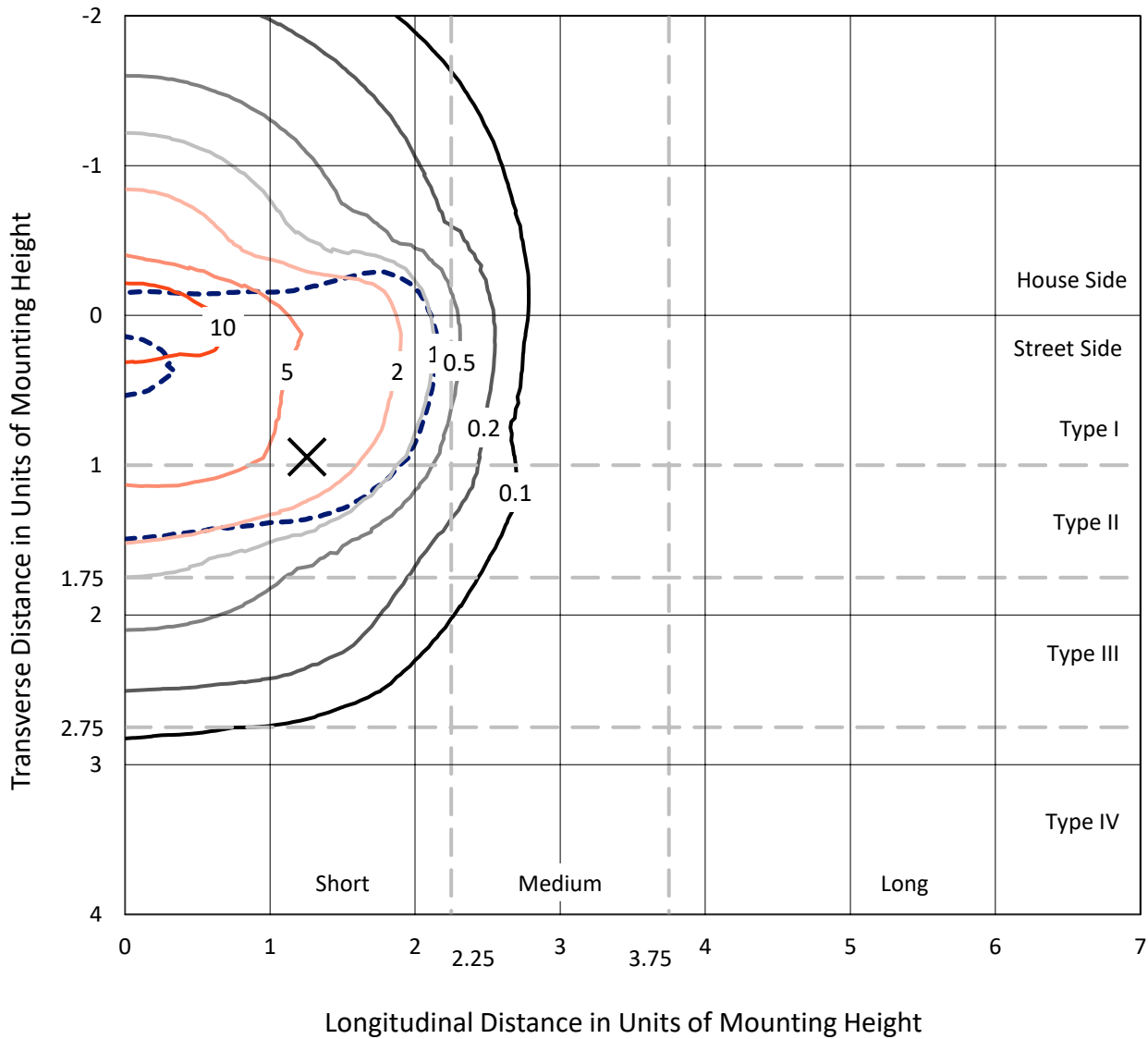
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638690
 CATALOG NUMBER: GWS-SA4F-735-U-SL2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

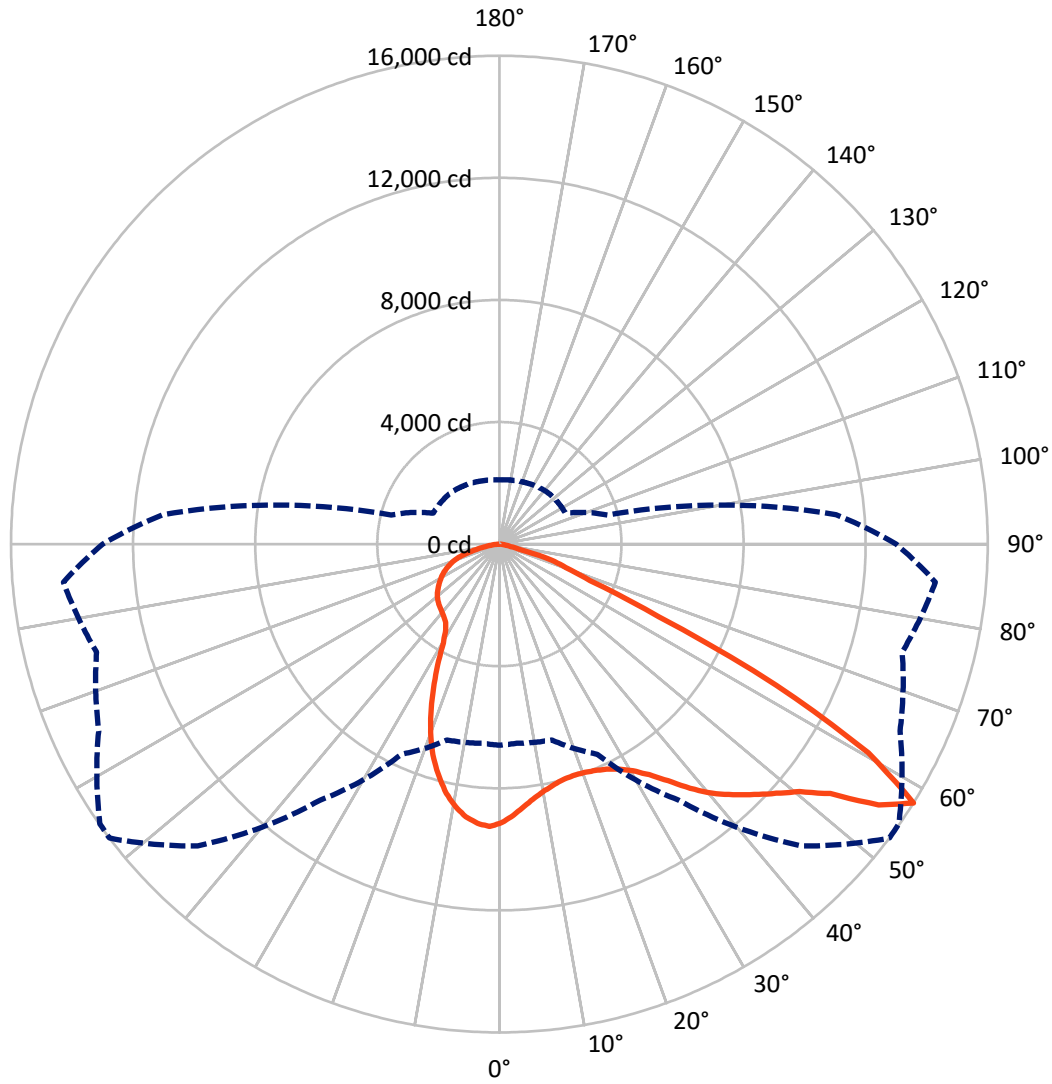
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type II - Short - N/A

REPORT NUMBER: P638690
CATALOG NUMBER: GWS-SA4F-735-U-SL2-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P638690

CATALOG NUMBER: GWS-SA4F-735-U-SL2-W-GRSWH

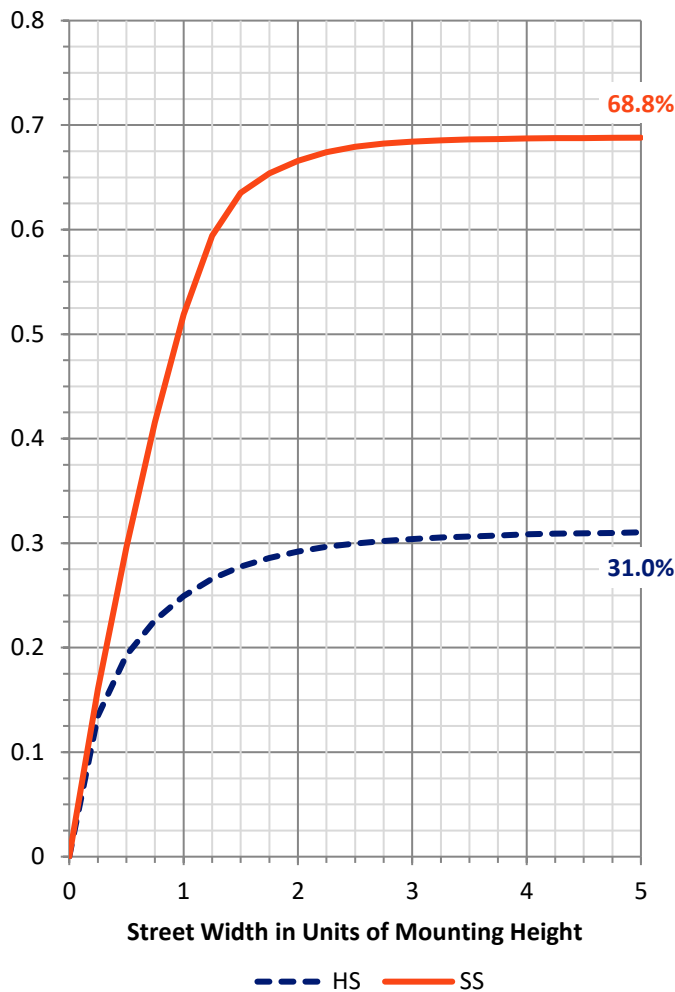
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8936.6	0.0	8936.6
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	19645.5	0.0	19645.5
	% Fixture	68.7	0.0	68.7
Total	Lumens	28582.1	0.0	28582.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	825.4	2.9
10°-20°	2165.4	7.6
20°-30°	3190.3	11.2
30°-40°	4465.6	15.6
40°-50°	5870.4	20.5
50°-60°	6883.1	24.1
60°-70°	4054.9	14.2
70°-80°	1008.7	3.5
80°-90°	118.3	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°	28582.1	100.0
0°-180°	28582.1	100.0

Coefficient of Utilization



REPORT NUMBER: P638690

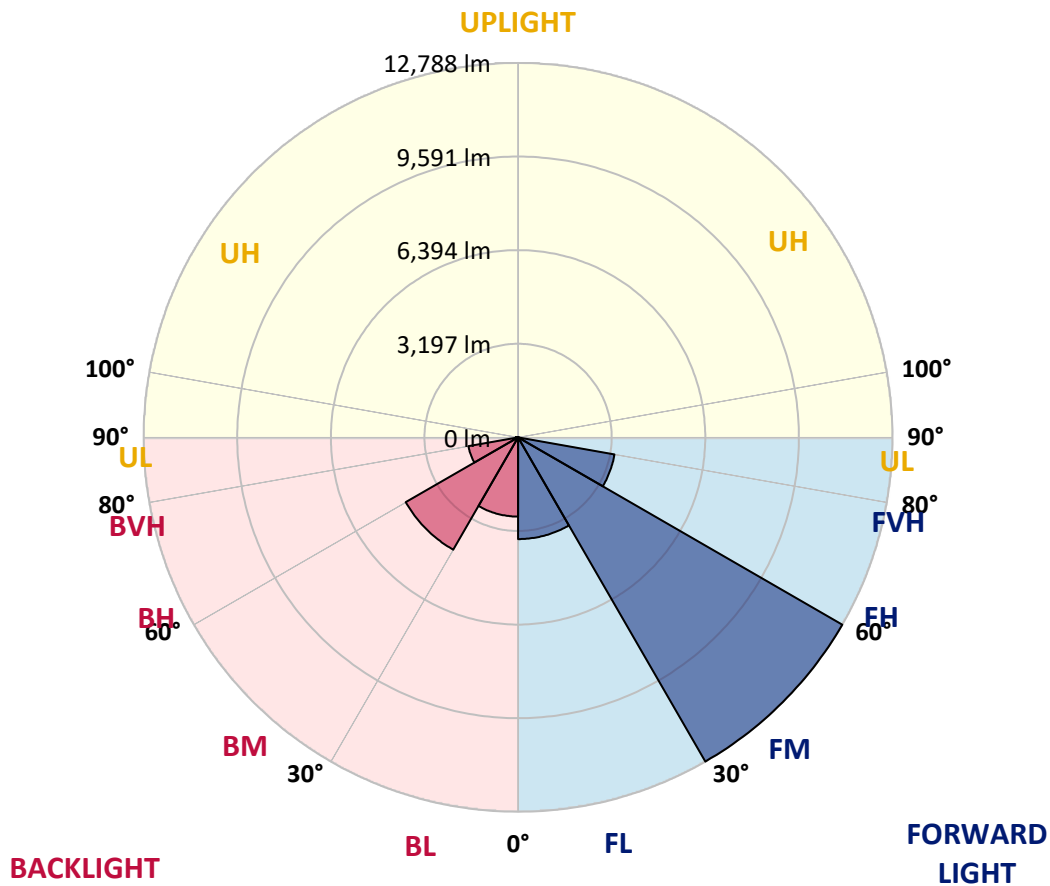
CATALOG NUMBER: GWS-SA4F-735-U-SL2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3475.0	12.2			
FM (30°-60°)	12787.9	44.7			
FH (60°-80°)	3343.0	11.7			G2/5000
FVH (80°-90°)	39.6	0.1			G1/100
BL (0°-30°)	2706.0	9.5	B4/5000		
BM (30°-60°)	4431.2	15.5	B3/5000		
BH (60°-80°)	1720.6	6.0	B3/2500		G3/2500
BVH (80°-90°)	78.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





REPORT NUMBER: P638690

CATALOG NUMBER: GWS-SA4F-735-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	9127.0	9127.0	9127.0	9127.0	9127.0	9127.0	9127.0	9127.0	9127.0	9127.0	9127.0
2.5°	8602.6	8626.7	8631.5	8706.0	8710.9	8819.1	8891.3	8876.8	8951.4	9042.8	9115.0
5°	8191.2	8193.6	8217.7	8306.7	8354.8	8496.8	8617.0	8617.0	8761.4	8949.0	9110.2
7.5°	7852.0	7849.6	7871.3	7969.9	8049.3	8220.1	8383.7	8402.9	8605.0	8879.3	9141.5
10°	7536.9	7553.7	7577.8	7698.1	7799.1	8010.8	8205.7	8236.9	8491.9	8831.1	9184.8
12.5°	7334.8	7337.2	7373.3	7508.0	7637.9	7864.1	8068.6	8107.0	8400.5	8785.4	9216.0
15°	7204.9	7207.3	7245.8	7395.0	7546.5	7775.1	7984.4	8027.7	8347.6	8778.2	9276.2
17.5°	7147.2	7144.8	7180.9	7330.0	7496.0	7734.2	7957.9	8010.8	8371.7	8833.5	9382.0
20°	7147.2	7149.6	7168.8	7303.6	7471.9	7724.5	7984.4	8049.3	8465.5	8958.6	9545.6
22.5°	7248.2	7257.8	7267.5	7358.9	7491.2	7739.0	8054.1	8140.7	8667.6	9167.9	9759.7
25°	7445.5	7447.9	7457.5	7532.1	7592.2	7779.9	8169.6	8299.5	8982.7	9473.5	10029.2
27.5°	7710.1	7743.8	7753.4	7801.5	7801.5	7880.9	8350.0	8537.7	9408.5	9913.7	10373.2
30°	8080.6	8092.6	8109.4	8162.4	8104.6	8071.0	8614.6	8855.2	9901.7	10445.3	10786.9
32.5°	8405.3	8431.8	8523.2	8609.8	8506.4	8400.5	9004.3	9288.2	10375.6	10998.6	11227.2
35°	8682.0	8746.9	8922.6	9115.0	9042.8	8937.0	9521.6	9817.5	10765.3	11395.6	11616.9
37.5°	9016.4	9066.9	9307.5	9620.2	9685.1	9634.6	10151.8	10363.5	11025.1	11496.6	11828.6
40°	9355.6	9432.6	9742.9	10175.9	10423.7	10459.8	10734.0	10875.9	11114.1	11299.3	11787.7
42.5°	9702.0	9834.3	10260.1	10765.3	11205.5	11287.3	11224.8	11284.9	11085.2	11027.5	11597.6
45°	10125.4	10281.7	10762.9	11407.6	11987.4	12114.9	11705.9	11650.6	11080.4	10924.1	11479.8
47.5°	10625.8	10782.1	11241.6	11992.2	12733.1	12826.9	12199.1	12098.0	11248.8	11082.8	11638.5
50°	11068.4	11176.7	11588.0	12427.6	13428.3	13483.7	12742.7	12620.0	11667.4	11523.1	12134.1
52.5°	10618.5	10606.5	11039.5	12074.0	13789.2	14455.6	13579.9	13462.0	12475.7	12254.4	12901.5
55°	9009.2	8872.0	9259.3	10276.9	12781.2	15319.2	15081.0	14845.3	13553.4	12990.5	13620.8
57.5°	6586.7	6548.2	6642.0	7597.0	10238.4	13981.6	16000.0	15978.3	14484.4	13664.1	14337.7
60°	5150.5	5092.8	4842.6	4869.0	6978.8	10921.7	13885.4	14522.9	15061.8	14068.2	14838.1
62.5°	4573.1	4529.8	4399.9	4041.5	4157.0	7322.8	10178.3	10762.9	13161.3	12425.2	12745.1
65°	3786.5	3774.5	3882.7	3868.3	3483.4	4043.9	5744.7	6334.1	8275.4	8378.9	8275.4
67.5°	2752.1	2730.4	3004.7	3545.9	3353.5	3052.8	3201.9	3406.4	4243.6	3810.5	3430.5
70°	1789.8	1758.5	1917.3	2562.0	3002.3	2660.6	2307.0	2273.3	2333.5	1450.6	1568.5
72.5°	1200.4	1164.3	1161.9	1409.7	1813.9	1792.2	1787.4	1770.6	1580.5	1145.1	1270.2
75°	668.8	639.9	632.7	608.6	649.5	661.6	704.9	728.9	789.1	868.4	962.3
77.5°	113.1	110.7	139.5	178.0	245.4	315.1	389.7	411.4	507.6	601.4	661.6
80°	62.5	65.0	84.2	103.4	137.1	187.6	240.6	255.0	312.7	363.3	411.4
82.5°	33.7	33.7	43.3	55.3	74.6	98.6	129.9	141.9	180.4	211.7	245.4
85°	12.0	12.0	16.8	21.7	31.3	40.9	50.5	57.7	79.4	108.3	122.7
87.5°	0.0	0.0	0.0	0.0	2.4	4.8	9.6	9.6	12.0	21.7	31.3
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: P638690

CATALOG NUMBER: GWS-SA4F-735-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9127.0	9127.0	9127.0	9127.0	9127.0	9127.0	9127.0	9127.0	9127.0	9127.0	9127.0
2.5°	9175.1	9110.2	9199.2	9240.1	9254.5	9264.2	9201.6	9158.3	9143.9	9098.2	9071.7
5°	9208.8	9165.5	9249.7	9249.7	9189.6	9127.0	8999.5	8910.5	8848.0	8773.4	8761.4
7.5°	9266.6	9235.3	9281.0	9187.2	9035.6	8867.2	8645.9	8472.7	8333.2	8241.8	8244.2
10°	9343.5	9305.1	9269.0	9059.7	8783.0	8472.7	8133.5	7880.9	7650.0	7544.1	7486.4
12.5°	9394.1	9338.7	9187.2	8840.8	8434.2	8018.0	7539.3	7164.0	6829.6	6678.1	6666.1
15°	9456.6	9355.6	9052.5	8556.9	7991.6	7423.8	6808.0	6286.0	5833.7	5597.9	5585.9
17.5°	9538.4	9372.4	8891.3	8232.1	7524.9	6687.7	5913.1	5256.3	4775.2	4592.4	4623.7
20°	9653.9	9391.7	8708.5	7871.3	6945.1	5850.5	4885.9	4282.1	4096.8	4084.8	4060.7
22.5°	9783.8	9403.7	8506.4	7467.1	6242.7	4958.0	4036.7	3779.3	3776.9	3837.0	3851.4
25°	9930.5	9413.3	8277.8	6995.6	5482.5	4068.0	3570.0	3493.0	3553.1	3666.2	3680.6
27.5°	10118.2	9432.6	8001.2	6478.4	4674.2	3514.7	3312.6	3293.3	3365.5	3471.4	3466.5
30°	10394.8	9502.3	7707.7	5884.2	3844.2	3252.4	3156.2	3158.6	3187.5	3238.0	3245.2
32.5°	10676.3	9610.6	7421.4	5215.4	3367.9	3103.3	3060.0	3055.2	3055.2	3076.8	3081.6
35°	10943.3	9733.3	7111.1	4517.8	3137.0	3016.7	2987.8	2973.4	2966.2	2961.4	2954.1
37.5°	11092.5	9793.4	6808.0	3829.8	3014.3	2958.9	2930.1	2910.8	2884.4	2865.1	2860.3
40°	11027.5	9723.6	6456.8	3315.0	2939.7	2903.6	2869.9	2843.5	2807.4	2790.6	2780.9
42.5°	10811.0	9507.1	6074.3	3072.0	2879.6	2843.5	2802.6	2759.3	2735.2	2720.8	2718.4
45°	10582.5	9244.9	5612.4	2930.1	2821.8	2778.5	2730.4	2682.3	2655.8	2648.6	2646.2
47.5°	10575.2	9115.0	5121.6	2817.0	2752.1	2708.8	2648.6	2600.5	2571.6	2562.0	2552.4
50°	10892.8	9247.3	4568.3	2718.4	2679.9	2634.2	2566.8	2513.9	2477.8	2465.8	2463.4
52.5°	11551.9	9745.3	4072.8	2619.8	2583.7	2530.7	2475.4	2422.5	2379.2	2357.5	2355.1
55°	12264.0	10378.0	3764.8	2518.7	2470.6	2424.9	2374.4	2316.6	2268.5	2234.8	2230.0
57.5°	13000.1	11068.4	3671.0	2391.2	2355.1	2323.9	2263.7	2201.2	2145.8	2114.6	2107.3
60°	13606.4	11662.6	3846.6	2256.5	2237.3	2196.4	2141.0	2080.9	2042.4	2018.3	2013.5
62.5°	11390.8	9495.1	3105.7	2109.8	2109.8	2066.5	2003.9	1960.6	1934.1	1917.3	1912.5
65°	7229.0	5879.4	2119.4	1963.0	1960.6	1902.9	1849.9	1821.1	1809.0	1782.6	1777.8
67.5°	3149.0	2687.1	1811.5	1813.9	1804.2	1741.7	1688.8	1667.1	1643.1	1614.2	1611.8
70°	1633.4	1664.7	1621.4	1647.9	1631.0	1556.5	1505.9	1472.3	1421.7	1392.9	1395.3
72.5°	1318.3	1352.0	1400.1	1441.0	1404.9	1344.8	1265.4	1224.5	1159.5	1128.2	1130.7
75°	1005.6	1041.6	1087.4	1130.7	1101.8	1027.2	976.7	935.8	861.2	825.1	832.4
77.5°	692.8	712.1	767.4	765.0	755.4	733.7	659.1	611.0	534.1	490.8	495.6
80°	430.6	442.6	469.1	481.1	476.3	447.5	387.3	351.2	305.5	279.1	281.5
82.5°	259.8	267.0	291.1	293.5	291.1	269.4	223.7	197.3	168.4	154.0	154.0
85°	132.3	137.1	151.6	151.6	137.1	115.5	103.4	91.4	74.6	67.4	67.4
87.5°	36.1	36.1	45.7	38.5	31.3	28.9	14.4	12.0	4.8	2.4	2.4
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)