

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: P641200

Luminaire Tested: GWS-SA5F-735-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-735-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39763.1 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

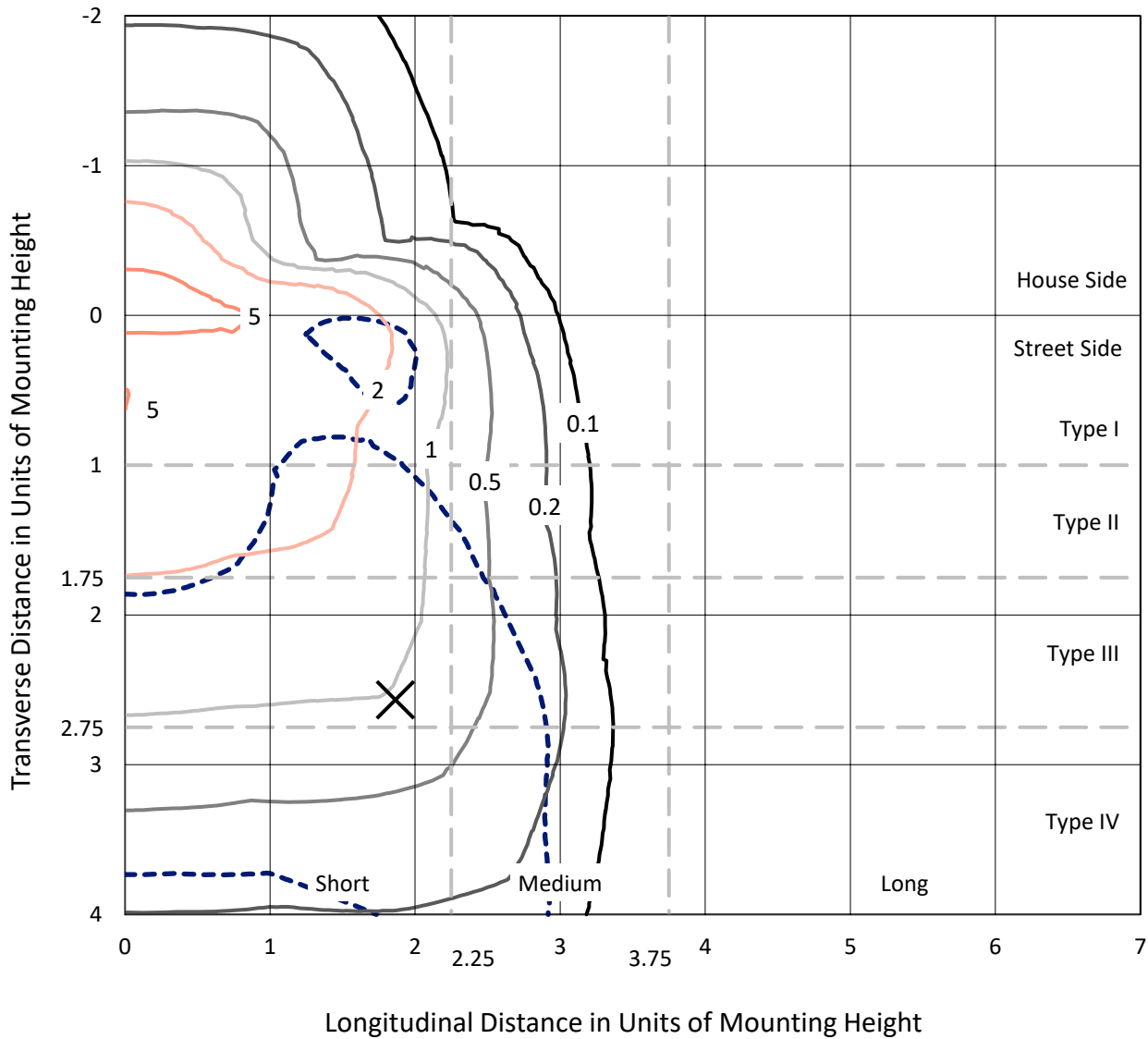
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641200
 CATALOG NUMBER: GWS-SA5F-735-U-T4FT-W

Iso-Footcandle Lines of Horizontal Illumination

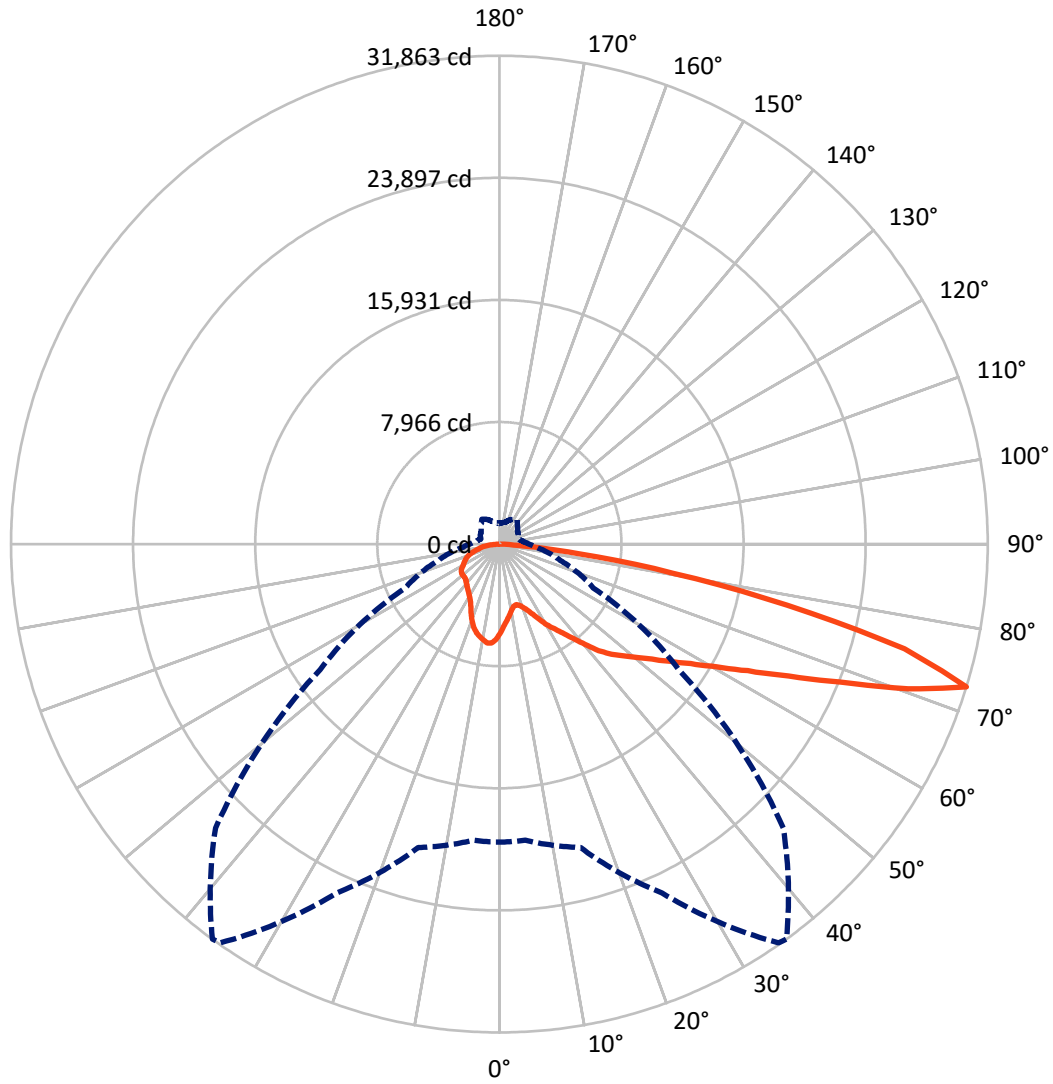
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P641200
CATALOG NUMBER: GWS-SA5F-735-U-T4FT-W

Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P641200

CATALOG NUMBER: GWS-SA5F-735-U-T4FT-W

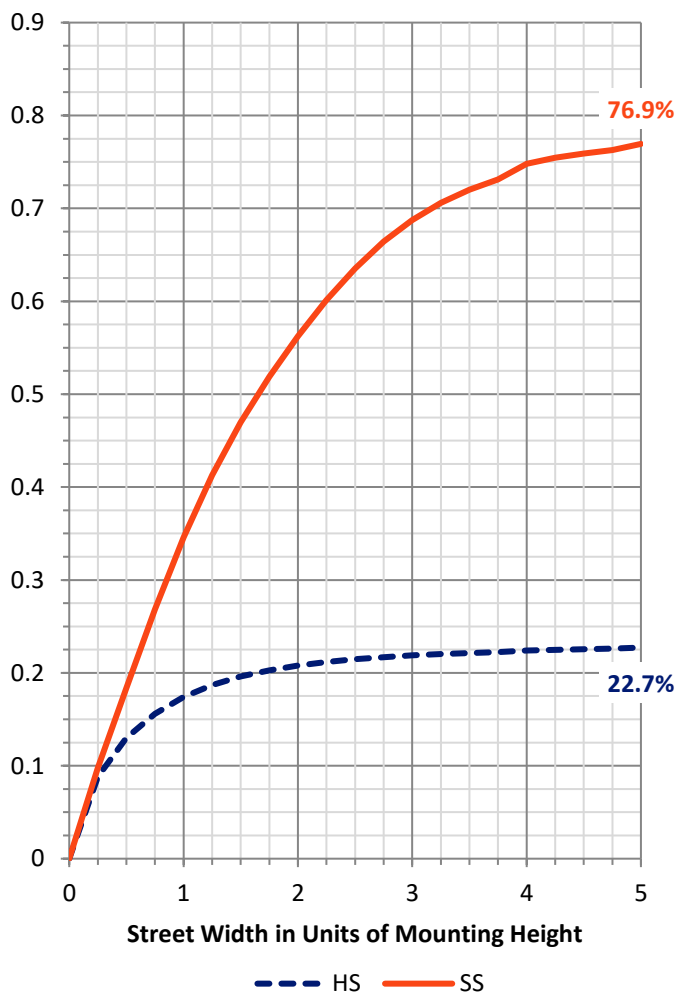
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9167.1	0.0	9167.1
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	30596.0	0.0	30596.0
	% Fixture	76.9	0.0	76.9
Total	Lumens	39763.1	0.0	39763.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.0	1.4
10°-20°	1534.7	3.9
20°-30°	2541.7	6.4
30°-40°	3806.5	9.6
40°-50°	5553.3	14.0
50°-60°	7904.0	19.9
60°-70°	9986.1	25.1
70°-80°	7116.0	17.9
80°-90°	776.8	2.0
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°	39763.1	100.0
0°-180°	39763.1	100.0

Coefficient of Utilization



REPORT NUMBER: P641200

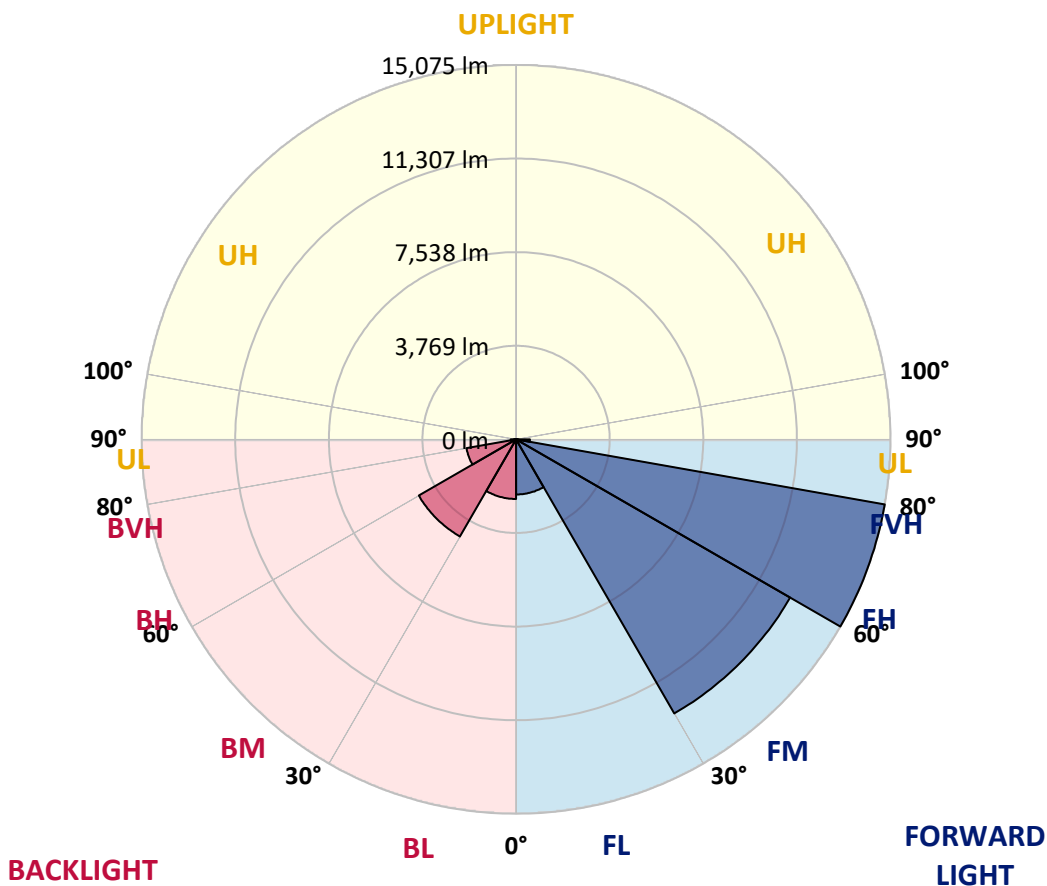
CATALOG NUMBER: GWS-SA5F-735-U-T4FT-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2219.9	5.6			
FM (30°-60°)	12743.1	32.0			
FH (60°-80°)	15075.5	37.9			G5
FVH (80°-90°)	557.6	1.4			G4/750
BL (0°-30°)	2400.6	6.0	B3/2500		
BM (30°-60°)	4520.7	11.4	B3/5000		
BH (60°-80°)	2026.6	5.1	B3/2500		G3/2500
BVH (80°-90°)	219.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P641200

CATALOG NUMBER: GWS-SA5F-735-U-T4FT-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	5819.5	5819.5	5819.5	5819.5	5819.5	5819.5	5819.5	5819.5	5819.5	5819.5	5819.5
2.5°	5309.0	5300.1	5282.4	5335.5	5388.7	5382.7	5456.5	5527.4	5604.1	5683.8	5790.0
5°	4884.0	4878.1	4863.4	4943.0	5022.7	5019.8	5140.8	5255.9	5412.3	5583.4	5795.9
7.5°	4459.1	4444.3	4465.0	4565.3	4677.4	4689.2	4854.5	5043.4	5270.6	5527.4	5828.4
10°	4084.3	4081.3	4090.2	4202.3	4370.5	4382.3	4594.8	4857.5	5158.5	5500.8	5902.1
12.5°	3986.9	3981.0	3957.4	4013.5	4140.3	4158.1	4391.2	4712.9	5081.7	5515.5	6002.5
15°	4146.3	4131.5	4048.9	4022.3	4084.3	4099.0	4296.8	4627.3	5037.5	5542.1	6129.4
17.5°	4420.7	4411.8	4255.4	4146.3	4187.6	4199.4	4346.9	4612.5	5025.7	5595.2	6285.8
20°	4822.0	4783.7	4538.7	4373.5	4373.5	4391.2	4479.7	4677.4	5040.4	5660.2	6462.8
22.5°	5353.2	5276.5	4931.2	4707.0	4647.9	4671.5	4709.9	4839.8	5102.4	5769.3	6684.2
25°	5949.4	5878.5	5468.3	5152.6	5069.9	5078.8	5046.3	5069.9	5238.1	5919.8	6958.6
27.5°	6583.8	6536.6	6099.9	5698.5	5568.7	5568.7	5453.6	5397.5	5427.0	6091.0	7265.5
30°	7150.4	7085.5	6716.6	6276.9	6105.8	6105.8	5887.4	5766.4	5695.6	6300.5	7675.7
32.5°	7448.5	7410.1	7165.2	6828.8	6619.2	6586.8	6397.9	6256.3	6091.0	6610.4	8230.5
35°	7838.0	7829.2	7681.6	7419.0	7153.4	7106.2	6976.3	6864.2	6577.9	6997.0	8968.3
37.5°	8327.9	8313.2	8289.6	8133.1	7814.4	7805.6	7690.5	7554.7	7182.9	7554.7	9862.5
40°	8876.8	8850.3	8820.7	8817.8	8626.0	8593.5	8584.7	8431.2	7911.8	8227.6	10795.0
42.5°	9632.3	9540.8	9263.4	9387.4	9529.0	9499.5	9611.6	9381.4	8820.7	9027.3	11677.4
45°	10561.9	10337.6	9788.7	9824.1	10181.2	10240.2	10629.8	10573.7	9821.2	9951.0	12607.0
47.5°	11119.6	10924.9	10414.3	10384.8	10830.4	10904.2	11751.2	11857.4	10898.3	11063.6	13754.9
50°	11577.0	11441.3	11022.2	11063.6	11535.7	11609.5	12863.7	13090.9	11913.5	12202.7	15088.8
52.5°	12128.9	11934.1	11609.5	11804.3	12382.7	12471.2	14100.2	14345.1	12828.3	13453.9	16469.9
55°	12438.8	12359.1	12365.0	12663.0	13389.0	13510.0	15395.7	15354.4	13666.4	14525.2	17508.7
57.5°	13152.9	13123.4	13394.9	13507.0	14563.5	14719.9	16691.2	16337.1	14427.8	15354.4	18007.4
60°	14413.0	14339.2	14575.3	14746.5	16015.5	16236.8	18137.3	17299.2	14944.2	15971.2	17839.2
62.5°	16183.7	16092.2	16101.0	16372.5	17960.2	18193.3	19745.6	18101.9	15103.6	16065.6	16773.9
65°	18385.2	18252.4	18101.9	18470.7	20542.4	20737.2	21495.6	18686.2	14722.9	15156.7	14548.8
67.5°	20707.7	20598.5	20421.4	21194.6	23886.0	24004.0	23458.0	18636.0	13515.9	12725.0	10204.8
70°	20843.4	20870.0	21708.1	24505.7	28250.6	28280.1	25314.3	17626.7	10945.5	8248.2	5084.7
72.5°	19444.6	19400.3	20492.2	25110.6	31762.4	31862.7	26190.7	14280.2	6763.8	4113.8	2384.5
75°	15794.1	15870.8	17018.8	21970.7	27223.6	27312.1	21351.0	8419.4	3213.7	2012.6	1525.7
77.5°	6799.3	7227.2	9490.6	15478.4	19497.7	19223.3	11004.5	3411.4	1714.6	1434.2	1168.6
80°	1962.5	2130.7	3381.9	7360.0	11683.3	11476.7	4355.8	1277.8	1195.2	1077.1	838.1
82.5°	634.5	702.4	1239.4	2930.4	5235.2	5229.3	1652.6	755.5	782.0	731.9	540.0
85°	177.1	203.6	380.7	888.3	1620.1	1587.7	478.1	357.1	416.1	422.0	268.5
87.5°	0.0	0.0	3.0	5.9	5.9	5.9	11.8	53.1	121.0	153.5	109.2
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: P641200
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5819.5	5819.5	5819.5	5819.5	5819.5	5819.5	5819.5	5819.5	5819.5	5819.5	5819.5
2.5°	5854.9	5846.1	5967.1	6061.5	6150.0	6209.0	6226.8	6238.6	6262.2	6274.0	6262.2
5°	5896.2	5940.5	6141.2	6288.7	6406.8	6477.6	6480.5	6474.6	6492.4	6477.6	6468.7
7.5°	5984.8	6070.3	6324.1	6480.5	6557.3	6560.2	6489.4	6406.8	6365.5	6330.0	6318.2
10°	6102.8	6229.7	6507.1	6610.4	6586.8	6477.6	6321.2	6191.3	6117.6	6064.4	6052.6
12.5°	6265.1	6406.8	6669.4	6666.5	6518.9	6324.1	6141.2	5984.8	5878.5	5816.6	5795.9
15°	6418.6	6598.6	6787.5	6648.8	6415.6	6179.5	5943.5	5733.9	5592.3	5494.9	5477.2
17.5°	6607.4	6799.3	6873.0	6592.7	6285.8	5981.8	5666.1	5391.6	5199.8	5084.7	5075.8
20°	6825.8	6997.0	6914.4	6495.3	6117.6	5719.2	5291.3	4984.4	4777.8	4665.6	4674.5
22.5°	7079.6	7203.6	6926.2	6362.5	5884.4	5347.3	4869.3	4574.2	4435.5	4376.4	4379.4
25°	7351.1	7430.8	6905.5	6182.5	5527.4	4892.9	4435.5	4299.7	4287.9	4273.1	4279.0
27.5°	7672.8	7655.1	6843.5	5928.7	5046.3	4364.6	4131.5	4166.9	4214.1	4208.2	4214.1
30°	8103.6	7935.4	6763.8	5577.5	4473.8	3922.0	3951.5	4051.8	4113.8	4119.7	4137.4
32.5°	8596.5	8245.3	6637.0	5099.4	3927.9	3674.1	3783.3	3904.3	3978.0	3992.8	4016.4
35°	9183.7	8599.4	6412.7	4503.3	3535.4	3526.5	3626.9	3709.5	3789.2	3795.1	3795.1
37.5°	9859.5	8953.5	6055.6	3845.2	3293.4	3399.6	3494.1	3511.8	3532.4	3514.7	3523.6
40°	10479.2	9295.9	5548.0	3246.2	3095.7	3287.5	3367.2	3308.1	3243.2	3199.0	3207.8
42.5°	10998.6	9529.0	4875.2	2827.1	2895.0	3187.2	3249.1	3128.1	3001.2	2918.6	2930.4
45°	11582.9	9744.4	4084.3	2543.8	2723.8	3116.3	3157.6	3001.2	2838.9	2715.0	2697.3
47.5°	12388.6	10184.1	3381.9	2346.1	2602.8	3078.0	3145.8	2933.4	2720.9	2535.0	2514.3
50°	13383.1	10806.8	2794.7	2216.3	2546.8	3057.3	3142.9	2859.6	2605.8	2387.4	2372.7
52.5°	14469.1	11414.7	2360.9	2115.9	2490.7	2995.3	3128.1	2777.0	2484.8	2248.7	2231.0
55°	15192.1	11653.8	2068.7	2021.5	2399.2	2897.9	3069.1	2697.3	2301.8	2086.4	2059.8
57.5°	15404.6	11346.9	1865.1	1935.9	2281.2	2762.2	2957.0	2529.1	2189.7	2018.5	1997.9
60°	15038.6	10573.7	1738.2	1865.1	2151.3	2588.1	2762.2	2431.7	2101.2	1947.7	1933.0
62.5°	14005.8	9381.4	1640.8	1791.3	2018.5	2405.1	2638.3	2313.6	2003.8	1882.8	1862.1
65°	11928.2	7693.4	1561.1	1714.6	1891.6	2231.0	2502.5	2195.6	1897.5	1806.1	1782.4
67.5°	8342.7	5403.4	1475.5	1623.1	1764.7	2062.8	2360.9	2086.4	1788.3	1720.5	1696.9
70°	4078.4	2865.5	1372.2	1516.8	1629.0	1891.6	2219.2	1953.6	1643.7	1605.4	1572.9
72.5°	1941.8	1602.4	1251.3	1372.2	1443.1	1664.4	1983.1	1761.8	1472.6	1390.0	1333.9
75°	1301.4	1139.1	1091.9	1201.1	1218.8	1395.9	1699.8	1519.8	1298.5	1204.0	1156.8
77.5°	985.7	870.6	917.8	1015.2	979.8	1148.0	1398.8	1354.5	1171.6	1086.0	1062.4
80°	693.5	634.5	728.9	787.9	761.4	976.8	1260.1	1159.8	965.0	870.6	852.9
82.5°	436.8	425.0	537.1	545.9	554.8	773.2	1035.8	911.9	749.6	616.8	572.5
85°	218.4	242.0	321.7	321.7	318.7	398.4	590.2	513.5	404.3	321.7	312.8
87.5°	73.8	103.3	138.7	112.1	85.6	67.9	76.7	94.4	100.3	97.4	97.4
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)