

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: P643659

Luminaire Tested: GWS-SA6F-735-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-735-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40925.7 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

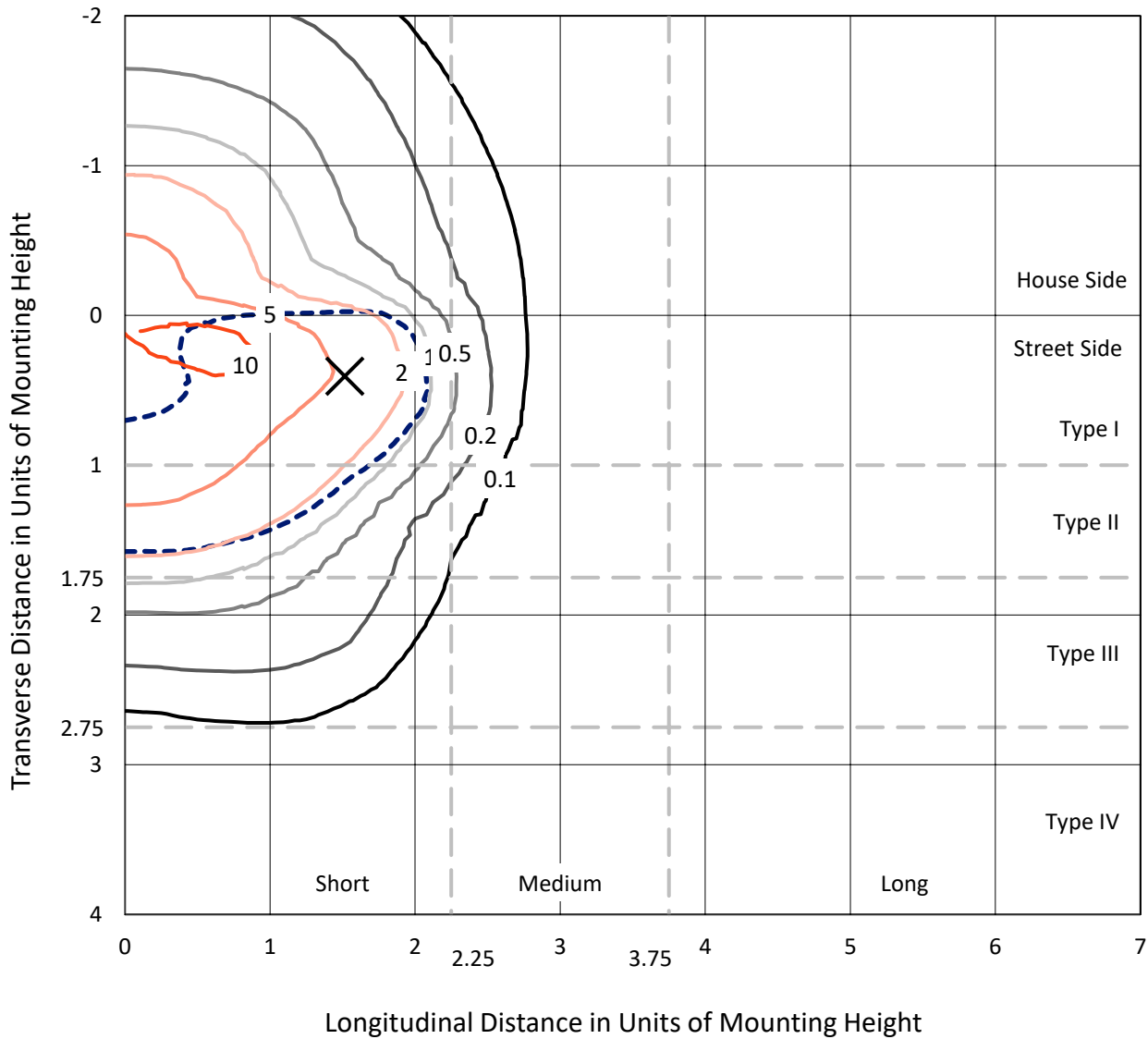
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643659
 CATALOG NUMBER: GWS-SA6F-735-U-T2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

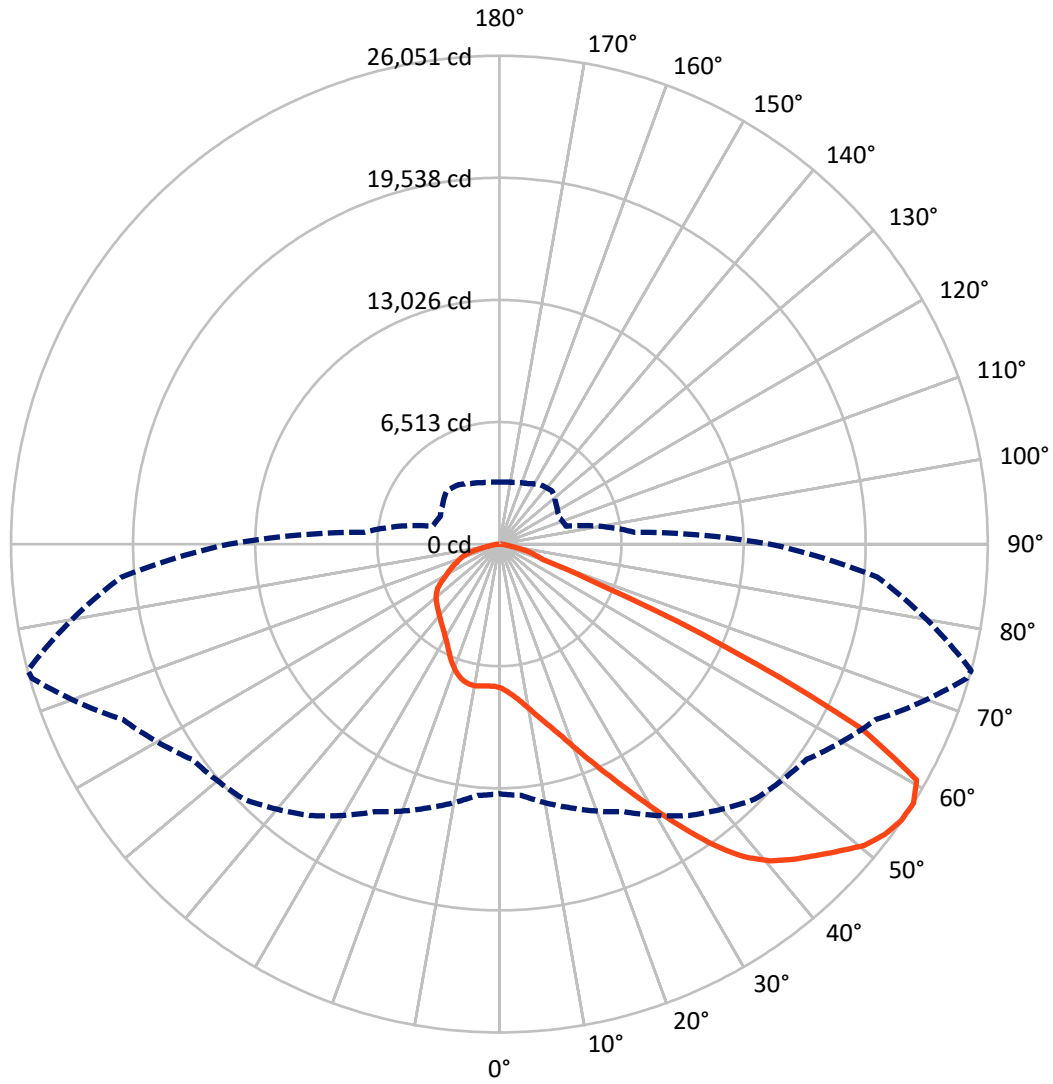
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - N/A

REPORT NUMBER: P643659
CATALOG NUMBER: GWS-SA6F-735-U-T2-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P643659

CATALOG NUMBER: GWS-SA6F-735-U-T2-W-GRSWH

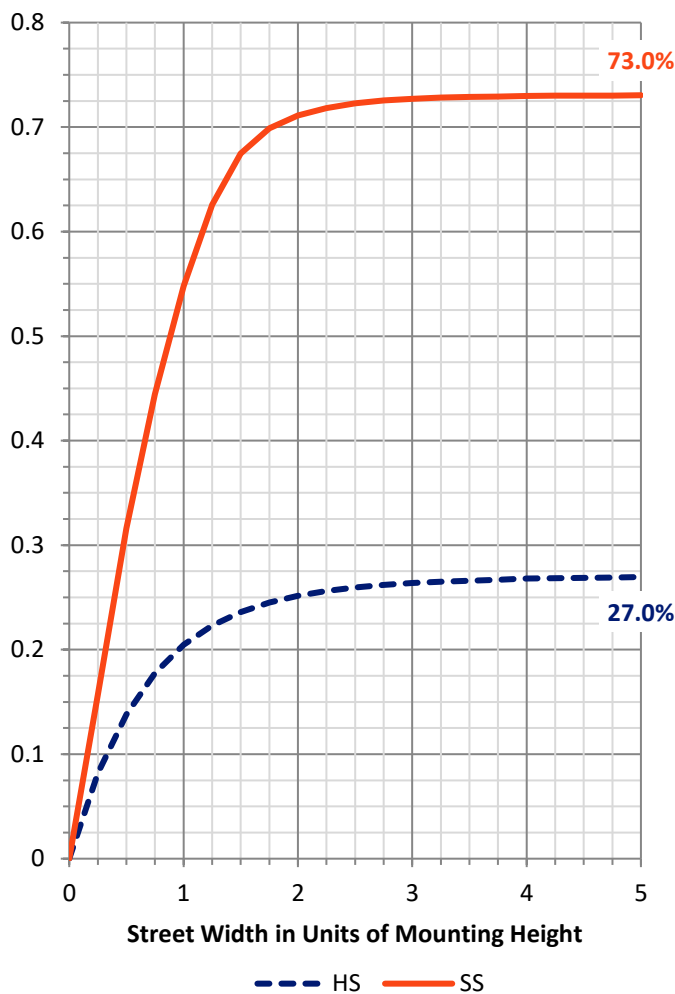
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11071.2	0.0	11071.2
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	29854.5	0.0	29854.5
	% Fixture	72.9	0.0	72.9
Total	Lumens	40925.7	0.0	40925.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	767.0	1.9
10°-20°	2441.9	6.0
20°-30°	4330.6	10.6
30°-40°	6629.4	16.2
40°-50°	9230.9	22.6
50°-60°	10576.9	25.8
60°-70°	5434.6	13.3
70°-80°	1368.2	3.3
80°-90°	146.3	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°	40925.7	100.0
0°-180°	40925.7	100.0

Coefficient of Utilization



REPORT NUMBER: P643659

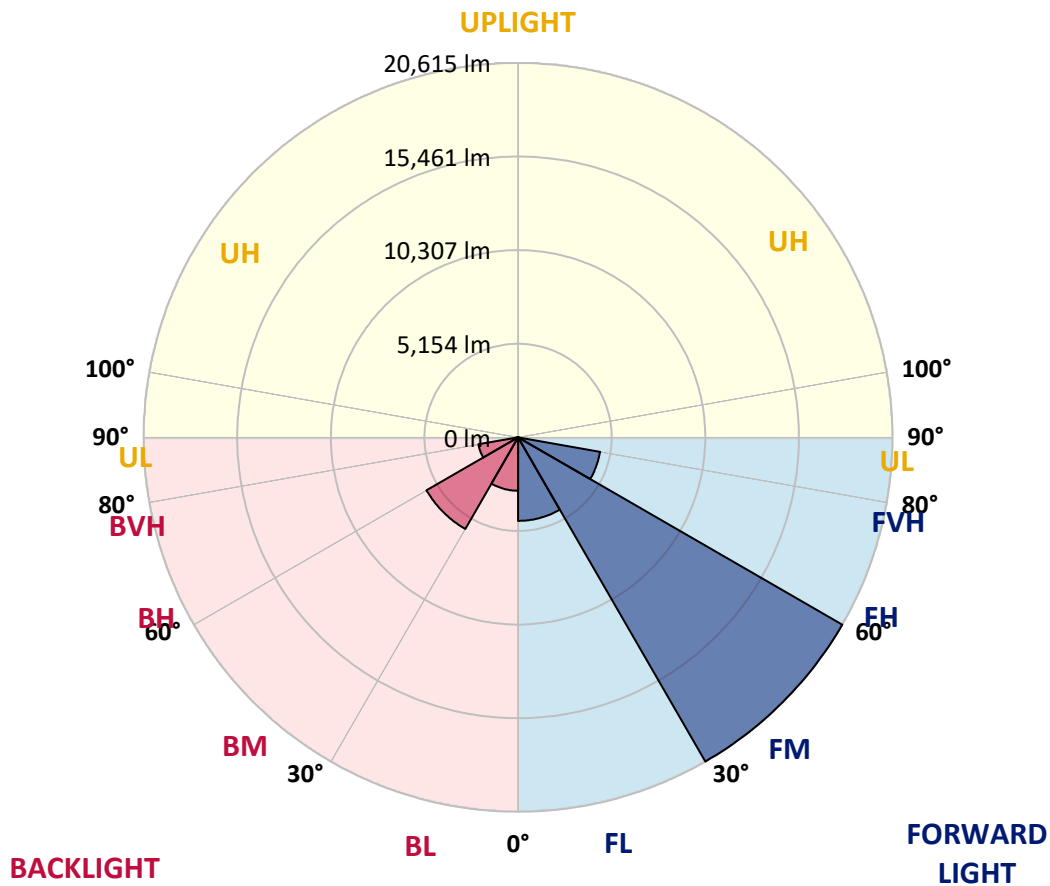
CATALOG NUMBER: GWS-SA6F-735-U-T2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4598.3	11.2			
FM (30°-60°)	20614.7	50.4			
FH (60°-80°)	4587.3	11.2			G2/5000
FVH (80°-90°)	54.1	0.1			G1/100
BL (0°-30°)	2941.2	7.2	B4/5000		
BM (30°-60°)	5822.5	14.2	B4/8500		
BH (60°-80°)	2215.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	92.1	0.2			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: P643659

CATALOG NUMBER: GWS-SA6F-735-U-T2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	7664.4	7664.4	7664.4	7664.4	7664.4	7664.4	7664.4	7664.4	7664.4	7664.4	7664.4
2.5°	8234.5	8255.6	8234.5	8269.7	8199.3	8167.6	8090.2	7974.1	7882.6	7868.5	7766.5
5°	8874.9	8920.7	8892.5	8878.5	8783.4	8713.1	8596.9	8364.7	8174.7	8146.5	7945.9
7.5°	9286.7	9318.3	9318.3	9328.9	9293.7	9212.8	9089.6	8815.1	8547.7	8505.4	8202.8
10°	9423.9	9448.5	9494.3	9582.3	9652.6	9677.3	9596.3	9332.4	9005.1	8962.9	8540.6
12.5°	9455.6	9483.7	9554.1	9716.0	9909.5	10085.5	10099.6	9906.0	9540.0	9494.3	8931.2
15°	9515.4	9543.6	9638.6	9839.1	10124.2	10462.0	10669.6	10535.9	10131.2	10082.0	9374.6
17.5°	9508.4	9540.0	9680.8	9948.2	10331.8	10821.0	11222.1	11278.4	10859.7	10775.2	9877.9
20°	9490.8	9518.9	9670.2	9997.5	10472.6	11144.7	11869.6	12161.7	11711.3	11633.8	10465.5
22.5°	9631.5	9663.2	9779.3	10050.3	10546.5	11394.6	12467.8	13171.6	12721.2	12612.1	11141.2
25°	9948.2	9994.0	10064.4	10250.9	10680.2	11616.2	13080.2	14315.3	13854.3	13724.1	11876.7
27.5°	10437.4	10493.7	10592.2	10680.2	10979.3	11897.8	13688.9	15596.2	15135.3	14998.0	12654.4
30°	11035.6	11109.5	11236.2	11296.0	11500.1	12313.0	14350.5	16915.9	16648.4	16458.4	13530.6
32.5°	11862.6	11964.6	12084.3	12101.9	12225.0	12942.9	15005.1	18224.9	18221.4	18087.7	14526.5
35°	12939.4	13048.5	13073.1	13097.8	13157.6	13808.6	15796.8	19417.9	19878.9	19724.0	15610.3
37.5°	14114.7	14273.1	14311.8	14202.7	14287.2	14850.2	16687.1	20375.1	21321.7	21156.3	16659.0
40°	15371.0	15434.4	15539.9	15367.5	15473.1	16043.2	17559.9	20987.4	22398.5	22222.5	17486.0
42.5°	16271.9	16388.0	16546.4	16483.0	16542.9	17063.7	18172.2	21283.0	23165.6	22989.7	18080.7
45°	17250.2	17285.4	17387.4	17373.3	17408.5	17894.2	18612.0	21413.2	23851.8	23693.5	18587.4
47.5°	18101.8	18154.6	18221.4	18144.0	18066.6	18383.3	18971.0	21525.8	24643.6	24453.6	19118.8
50°	18921.7	18967.5	19048.4	18823.2	18534.6	18615.6	19146.9	21680.6	25386.1	25252.4	19537.5
52.5°	19073.0	19122.3	19502.3	19548.1	19178.6	18893.6	19456.6	22022.0	25822.5	25738.0	19688.9
55°	17169.2	17257.2	18013.8	18883.0	19794.4	19702.9	19952.8	22201.4	25994.9	26016.0	19959.8
57.5°	13326.5	13453.2	14558.1	15751.1	17668.9	19256.0	20016.1	22155.7	25935.1	26051.2	20237.8
60°	8741.2	8815.1	10124.2	11461.4	13449.7	15645.5	17915.3	21332.2	25403.7	25569.1	20167.4
62.5°	5278.5	5363.0	6415.2	7428.6	8600.5	10067.9	12151.1	17144.6	21293.5	21663.0	16152.3
65°	3684.4	3797.0	4719.0	5553.0	5957.7	5655.0	6154.7	9575.2	13266.7	13421.5	9870.8
67.5°	2670.9	2748.3	3504.9	4497.3	4944.2	3994.1	3043.9	4240.4	5778.2	5834.5	4071.5
70°	1748.9	1836.9	2523.1	3424.0	4036.3	3237.5	2276.8	2294.4	2431.6	2459.8	2364.8
72.5°	960.7	1013.5	1558.9	2273.3	2385.9	1935.5	1777.1	1907.3	2002.3	2002.3	2026.9
75°	496.2	541.9	636.9	749.5	904.4	1059.2	1280.9	1474.5	1576.5	1583.6	1573.0
77.5°	253.4	271.0	341.3	369.5	404.7	471.5	612.3	784.7	876.2	911.4	904.4
80°	119.6	126.7	144.3	168.9	207.6	263.9	330.8	394.1	450.4	457.5	496.2
82.5°	63.3	70.4	77.4	91.5	112.6	140.8	193.5	232.3	267.4	274.5	306.2
85°	24.6	28.2	31.7	35.2	49.3	59.8	80.9	109.1	133.7	133.7	158.4
87.5°	0.0	0.0	0.0	0.0	3.5	7.0	14.1	17.6	24.6	24.6	42.2
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: P643659

CATALOG NUMBER: GWS-SA6F-735-U-T2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7664.4	7664.4	7664.4	7664.4	7664.4	7664.4	7664.4	7664.4	7664.4	7664.4	7664.4
2.5°	7741.8	7639.8	7594.0	7520.1	7460.3	7393.4	7340.7	7301.9	7277.3	7263.2	7249.2
5°	7868.5	7713.7	7590.5	7442.7	7340.7	7242.1	7161.2	7104.9	7076.7	7055.6	7041.5
7.5°	8065.6	7857.9	7625.7	7397.0	7217.5	7059.1	6957.1	6897.3	6858.5	6844.5	6833.9
10°	8336.5	8048.0	7664.4	7301.9	7034.5	6862.1	6791.7	6763.5	6767.1	6760.0	6756.5
12.5°	8642.7	8248.6	7653.8	7133.0	6837.4	6735.4	6738.9	6784.6	6837.4	6851.5	6855.0
15°	8973.5	8445.6	7551.8	6914.9	6682.6	6693.2	6784.6	6893.7	6992.3	7031.0	7038.0
17.5°	9332.4	8611.0	7365.3	6675.6	6555.9	6668.5	6837.4	7016.9	7161.2	7224.5	7242.1
20°	9733.6	8751.8	7101.4	6439.8	6436.3	6622.8	6869.1	7104.9	7287.9	7372.3	7386.4
22.5°	10159.4	8839.8	6777.6	6221.6	6313.1	6563.0	6844.5	7090.8	7284.3	7368.8	7386.4
25°	10588.7	8867.9	6422.2	6021.0	6186.4	6467.9	6724.8	6921.9	7104.9	7178.8	7192.9
27.5°	10989.9	8787.0	6084.4	5848.6	6070.3	6327.2	6499.6	6605.2	6731.9	6788.2	6798.7
30°	11398.1	8625.1	5799.3	5711.4	5940.1	6133.6	6211.1	6218.1	6267.4	6267.4	6274.4
32.5°	11809.8	8385.8	5549.5	5577.6	5778.2	5904.9	5915.5	5834.5	5774.7	5676.2	5672.6
35°	12284.9	8143.0	5345.4	5426.3	5588.2	5665.6	5633.9	5479.1	5334.8	5172.9	5165.9
37.5°	12724.7	7893.1	5172.9	5271.5	5373.5	5429.8	5355.9	5169.4	5049.8	4884.4	4859.8
40°	13087.2	7667.9	5007.5	5109.6	5158.9	5208.1	5088.5	4937.2	4954.8	4863.3	4859.8
42.5°	13298.3	7449.7	4852.7	4930.1	4961.8	4997.0	4891.4	4778.8	4873.8	4803.4	4807.0
45°	13453.2	7259.7	4712.0	4740.1	4817.5	4870.3	4771.8	4645.1	4666.2	4395.2	4331.9
47.5°	13629.1	7154.1	4578.2	4550.1	4687.3	4778.8	4627.5	4444.5	4317.8	4050.4	4025.7
50°	13815.6	7115.4	4437.5	4360.1	4525.4	4613.4	4437.5	4208.7	4043.3	3899.1	3885.0
52.5°	13879.0	7111.9	4261.5	4131.3	4296.7	4419.9	4272.1	4039.8	3842.8	3702.0	3695.0
55°	14128.8	7214.0	4036.3	3818.1	3973.0	4226.3	4117.2	3782.9	3624.6	3561.2	3554.2
57.5°	14420.9	7231.6	3680.9	3476.8	3691.4	3990.6	3853.3	3564.8	3392.3	3314.9	3307.9
60°	14301.3	6798.7	3300.8	3216.4	3452.1	3768.9	3642.2	3392.3	3191.7	3117.8	3110.8
62.5°	10898.4	4799.9	3022.8	2991.2	3195.3	3448.6	3424.0	3163.6	2973.6	2920.8	2913.7
65°	6555.9	3371.2	2755.4	2751.9	2896.1	3139.0	3170.6	2959.5	2758.9	2685.0	2685.0
67.5°	3241.0	2579.4	2452.7	2435.2	2526.6	2699.1	2832.8	2660.4	2491.5	2421.1	2410.5
70°	2290.9	2273.3	2231.1	2181.8	2199.4	2269.8	2326.1	2181.8	2002.3	1931.9	1917.9
72.5°	1981.2	1984.7	1956.6	1917.9	1903.8	1854.5	1805.3	1699.7	1590.6	1516.7	1523.7
75°	1537.8	1544.8	1562.4	1548.4	1509.7	1456.9	1404.1	1270.4	1182.4	1112.0	1097.9
77.5°	897.3	932.5	988.8	974.8	981.8	907.9	886.8	756.6	675.6	626.4	615.8
80°	506.7	527.9	552.5	570.1	549.0	517.3	471.5	401.2	376.5	341.3	334.3
82.5°	306.2	327.3	337.8	351.9	344.9	302.6	267.4	221.7	200.6	183.0	179.5
85°	154.8	168.9	179.5	186.5	165.4	137.2	123.2	98.5	84.5	73.9	73.9
87.5°	38.7	42.2	49.3	42.2	38.7	17.6	14.1	3.5	0.0	0.0	0.0
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)