

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: P641184

Luminaire Tested: GWS-SA5F-735-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641184  
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-SA5F-735-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

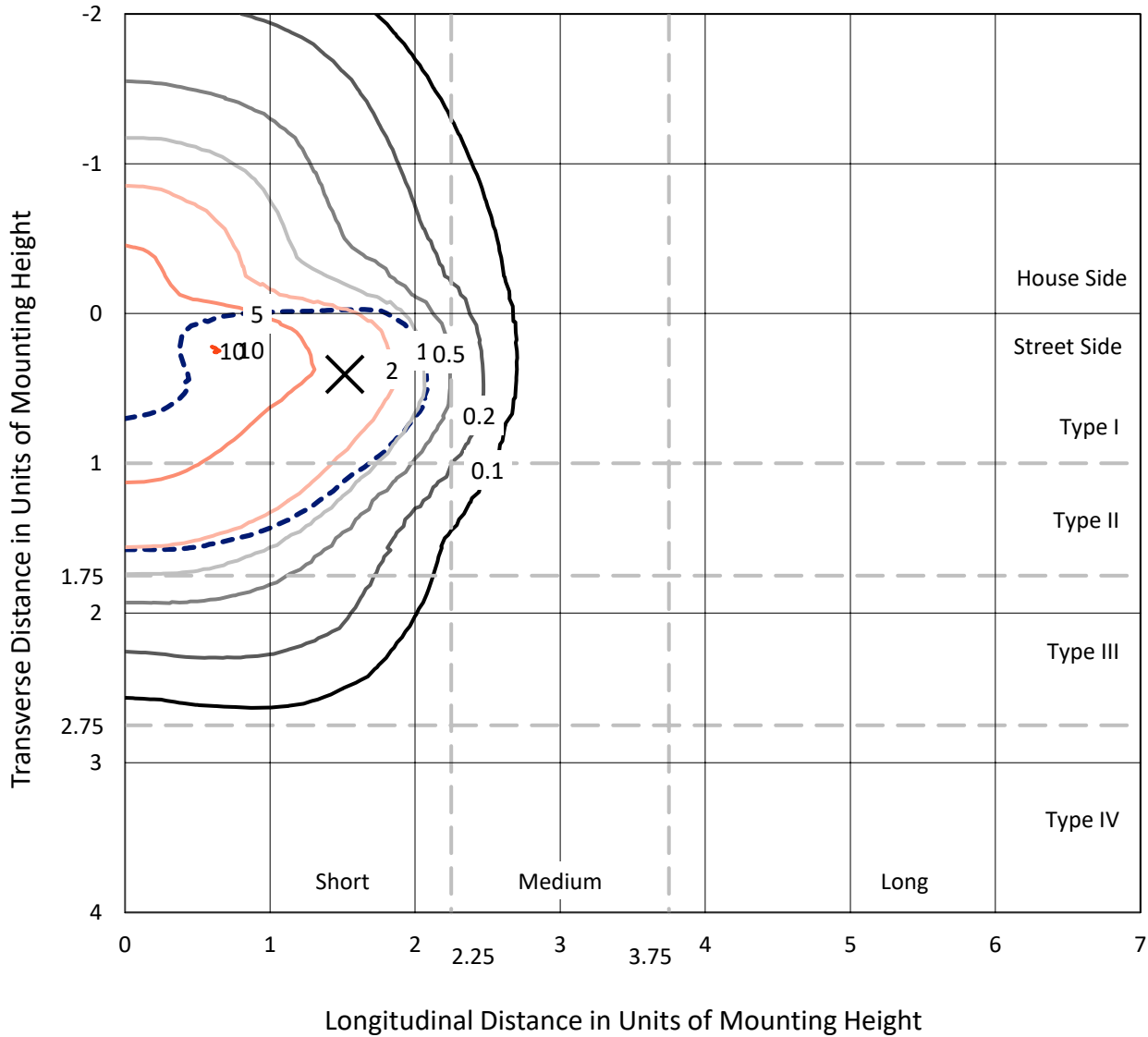
Lumens per Lamp: N/A  
Luminaire Lumens: 34321.3 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

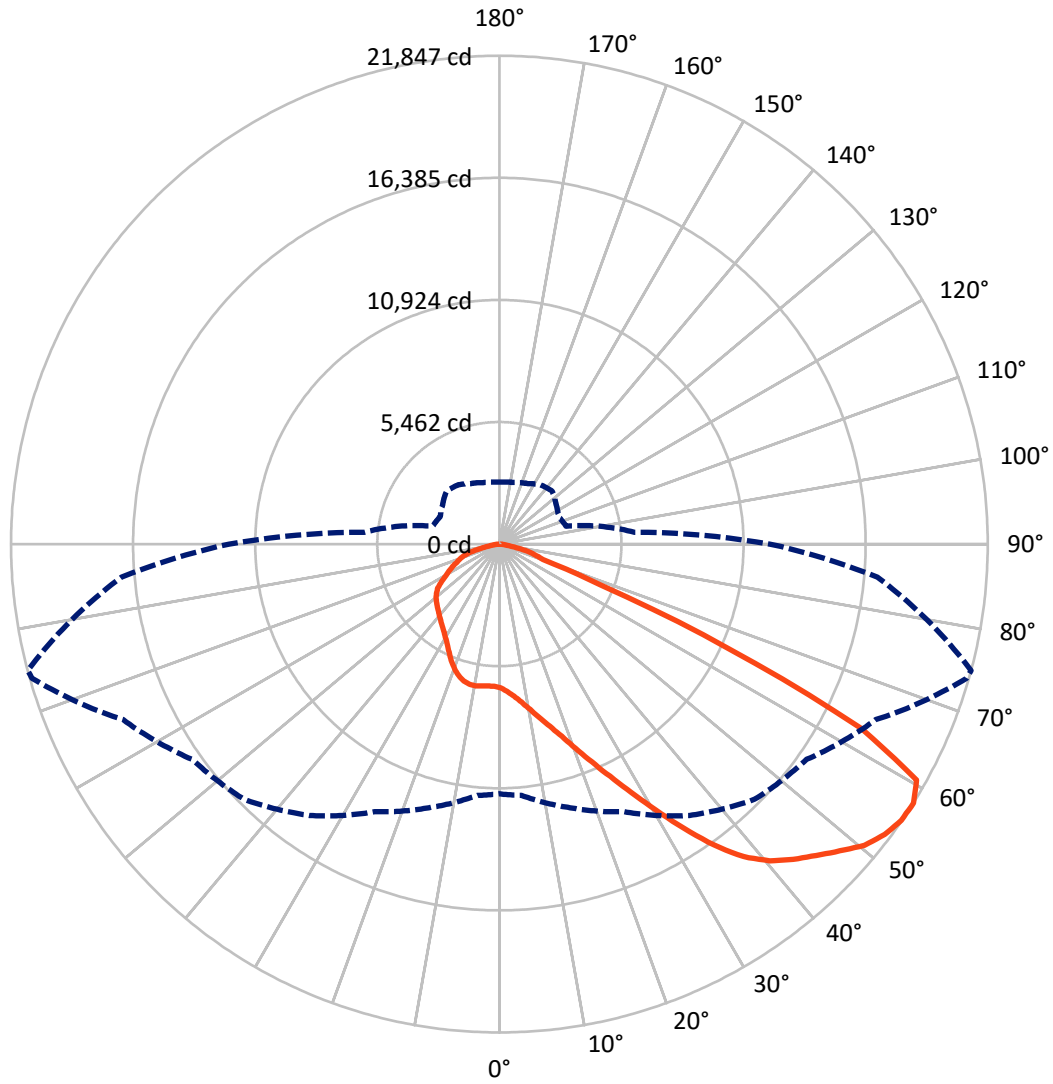
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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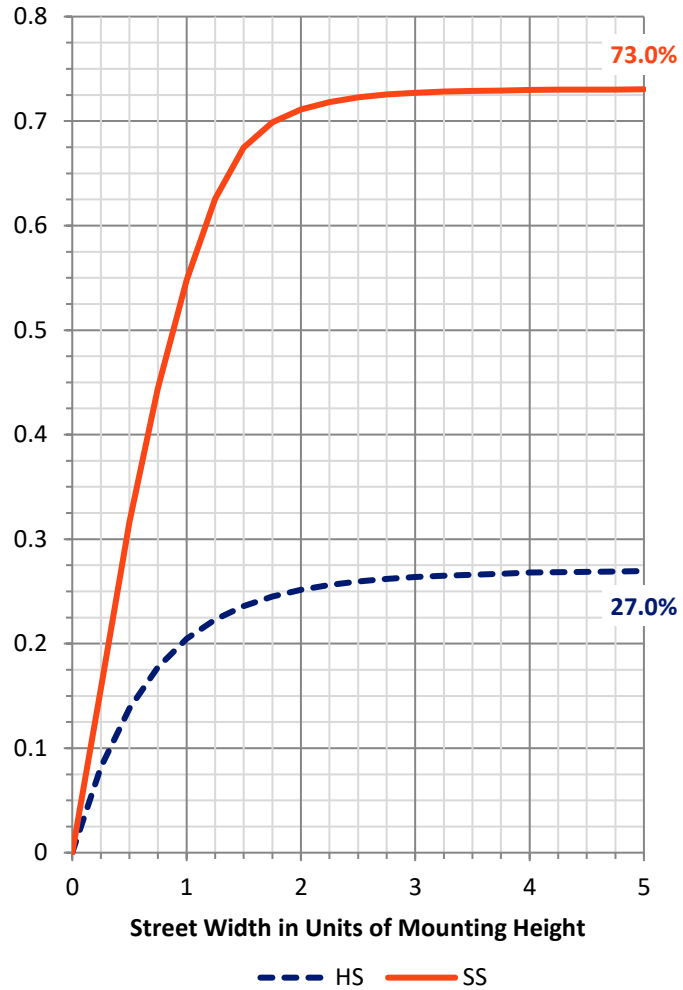
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9284.6	0.0	9284.6
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	25036.7	0.0	25036.7
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	34321.3	0.0	34321.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	643.2	1.9
10°-20°	2047.8	6.0
20°-30°	3631.8	10.6
30°-40°	5559.6	16.2
40°-50°	7741.3	22.6
50°-60°	8870.0	25.8
60°-70°	4557.6	13.3
70°-80°	1147.4	3.3
80°-90°	122.7	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°	34321.3	100.0
0°-180°	34321.3	100.0

**Coefficient of Utilization**



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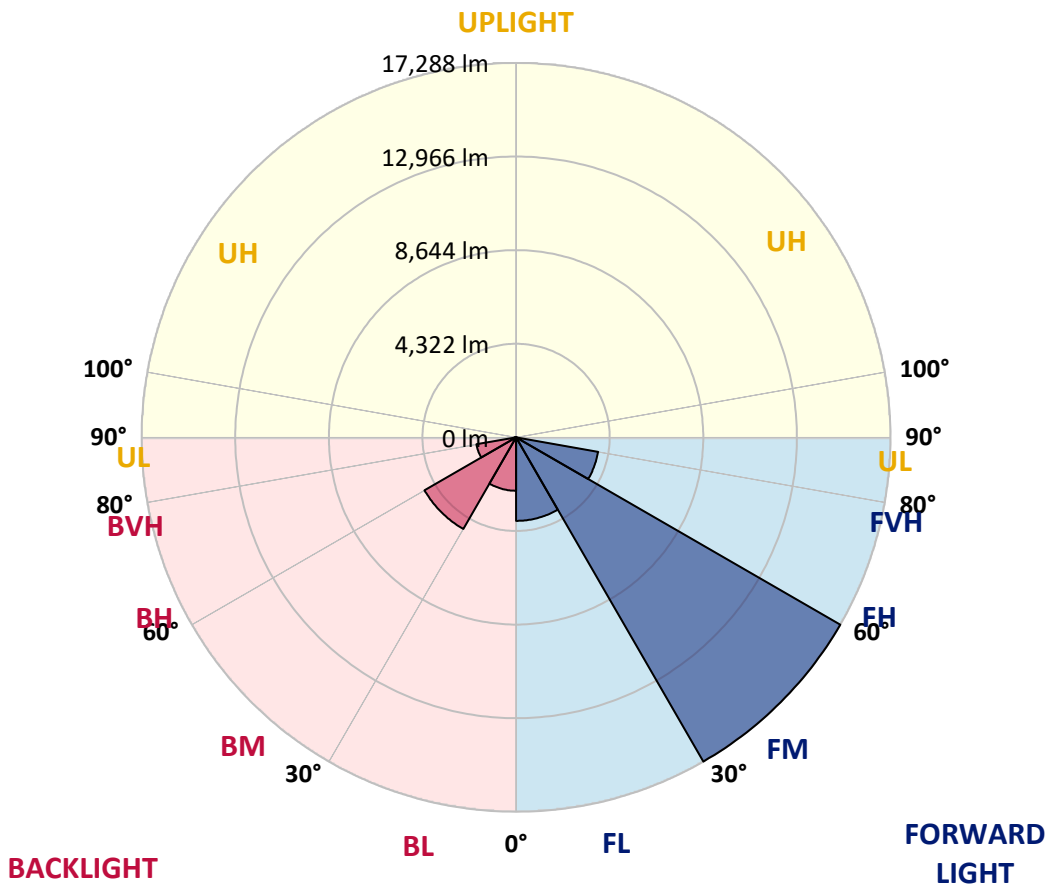
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3856.2	11.2			
FM (30°-60°)	17288.0	50.4			
FH (60°-80°)	3847.1	11.2			G2/5000
FVH (80°-90°)	45.4	0.1			G1/100
BL (0°-30°)	2466.6	7.2	B3/2500		
BM (30°-60°)	4882.9	14.2	B3/5000		
BH (60°-80°)	1857.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	77.3	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°	74°	75°	85°
0°	6427.6	6427.6	6427.6	6427.6	6427.6	6427.6	6427.6	6427.6	6427.6	6427.6	6427.6
2.5°	6905.6	6923.3	6905.6	6935.1	6876.1	6849.6	6784.6	6687.3	6610.5	6598.7	6513.1
5°	7442.7	7481.1	7457.5	7445.7	7366.0	7307.0	7209.6	7014.8	6855.5	6831.9	6663.6
7.5°	7788.0	7814.6	7814.6	7823.4	7793.9	7726.1	7622.8	7392.6	7168.3	7132.9	6879.1
10°	7903.1	7923.8	7962.1	8035.9	8094.9	8115.6	8047.7	7826.4	7551.9	7516.5	7162.4
12.5°	7929.7	7953.3	8012.3	8148.1	8310.4	8457.9	8469.7	8307.4	8000.5	7962.1	7490.0
15°	7979.8	8003.5	8083.1	8251.4	8490.4	8773.7	8947.8	8835.7	8496.3	8455.0	7861.8
17.5°	7973.9	8000.5	8118.6	8342.8	8664.5	9074.7	9411.1	9458.4	9107.2	9036.4	8283.8
20°	7959.2	7982.8	8109.7	8384.2	8782.6	9346.2	9954.2	10199.1	9821.4	9756.4	8776.7
22.5°	8077.2	8103.8	8201.2	8428.4	8844.5	9555.8	10455.8	11046.1	10668.3	10576.8	9343.3
25°	8342.8	8381.2	8440.2	8596.6	8956.7	9741.7	10969.3	12005.2	11618.6	11509.4	9960.1
27.5°	8753.0	8800.3	8882.9	8956.7	9207.5	9977.8	11479.9	13079.4	12692.8	12577.7	10612.3
30°	9254.7	9316.7	9422.9	9473.1	9644.3	10326.0	12034.7	14186.1	13961.8	13802.4	11347.1
32.5°	9948.3	10033.8	10134.2	10148.9	10252.2	10854.2	12583.6	15283.9	15280.9	15168.8	12182.3
35°	10851.3	10942.8	10963.4	10984.1	11034.3	11580.2	13247.6	16284.3	16670.9	16541.1	13091.2
37.5°	11837.0	11969.8	12002.2	11910.8	11981.6	12453.8	13994.2	17087.0	17880.9	17742.2	13970.6
40°	12890.5	12943.6	13032.2	12887.6	12976.1	13454.2	14726.1	17600.5	18783.9	18636.4	14664.2
42.5°	13646.0	13743.4	13876.2	13823.1	13873.3	14310.0	15239.6	17848.4	19427.3	19279.7	15162.9
45°	14466.4	14495.9	14581.5	14569.7	14599.2	15006.5	15608.5	17957.6	20002.7	19869.9	15587.9
47.5°	15180.6	15224.9	15280.9	15216.0	15151.1	15416.7	15909.5	18052.0	20666.7	20507.4	16033.5
50°	15868.2	15906.6	15974.5	15785.6	15543.6	15611.5	16057.1	18181.9	21289.4	21177.3	16384.7
52.5°	15995.1	16036.4	16355.1	16393.5	16083.6	15844.6	16316.8	18468.2	21655.4	21584.5	16511.6
55°	14398.6	14472.3	15106.8	15835.7	16600.1	16523.4	16732.9	18618.7	21800.0	21817.7	16738.8
57.5°	11175.9	11282.2	12208.8	13209.2	14817.6	16148.6	16786.0	18580.3	21749.8	21847.2	16971.9
60°	7330.6	7392.6	8490.4	9611.8	11279.2	13120.7	15024.2	17889.7	21304.2	21442.9	16912.9
62.5°	4426.7	4497.5	5379.9	6229.8	7212.6	8443.2	10190.2	14377.9	17857.3	18167.1	13545.7
65°	3089.8	3184.3	3957.5	4656.9	4996.3	4742.5	5161.5	8030.0	11125.8	11255.6	8277.9
67.5°	2239.9	2304.8	2939.3	3771.5	4146.3	3349.5	2552.7	3556.1	4845.8	4893.0	3414.5
70°	1466.7	1540.5	2116.0	2871.4	3384.9	2715.0	1909.4	1924.1	2039.2	2062.8	1983.2
72.5°	805.7	849.9	1307.3	1906.4	2000.9	1623.1	1490.3	1599.5	1679.2	1679.2	1699.8
75°	416.1	454.5	534.2	628.6	758.4	888.3	1074.2	1236.5	1322.1	1328.0	1319.2
77.5°	212.5	227.2	286.3	309.9	339.4	395.5	513.5	658.1	734.8	764.3	758.4
80°	100.3	106.2	121.0	141.7	174.1	221.3	277.4	330.5	377.7	383.6	416.1
82.5°	53.1	59.0	64.9	76.7	94.4	118.0	162.3	194.8	224.3	230.2	256.7
85°	20.7	23.6	26.6	29.5	41.3	50.2	67.9	91.5	112.1	112.1	132.8
87.5°	0.0	0.0	0.0	0.0	3.0	5.9	11.8	14.8	20.7	20.7	35.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6427.6	6427.6	6427.6	6427.6	6427.6	6427.6	6427.6	6427.6	6427.6	6427.6	6427.6
2.5°	6492.5	6406.9	6368.5	6306.6	6256.4	6200.3	6156.1	6123.6	6102.9	6091.1	6079.3
5°	6598.7	6468.9	6365.6	6241.6	6156.1	6073.4	6005.5	5958.3	5934.7	5917.0	5905.2
7.5°	6764.0	6589.9	6395.1	6203.3	6052.8	5920.0	5834.4	5784.2	5751.7	5739.9	5731.1
10°	6991.2	6749.2	6427.6	6123.6	5899.3	5754.7	5695.7	5672.1	5675.0	5669.1	5666.2
12.5°	7248.0	6917.4	6418.7	5981.9	5734.0	5648.5	5651.4	5689.8	5734.0	5745.8	5748.8
15°	7525.4	7082.7	6333.1	5799.0	5604.2	5613.0	5689.8	5781.3	5863.9	5896.4	5902.3
17.5°	7826.4	7221.4	6176.7	5598.3	5498.0	5592.4	5734.0	5884.5	6005.5	6058.7	6073.4
20°	8162.8	7339.5	5955.4	5400.6	5397.6	5554.0	5760.6	5958.3	6111.8	6182.6	6194.4
22.5°	8519.9	7413.2	5683.9	5217.6	5294.3	5503.9	5739.9	5946.5	6108.8	6179.7	6194.4
25°	8879.9	7436.8	5385.8	5049.4	5188.1	5424.2	5639.6	5804.9	5958.3	6020.3	6032.1
27.5°	9216.4	7369.0	5102.5	4904.8	5090.7	5306.1	5450.7	5539.3	5645.5	5692.7	5701.6
30°	9558.7	7233.2	4863.5	4789.7	4981.5	5143.8	5208.7	5214.6	5256.0	5256.0	5261.9
32.5°	9904.0	7032.5	4653.9	4677.5	4845.8	4952.0	4960.8	4893.0	4842.8	4760.2	4757.2
35°	10302.4	6828.9	4482.8	4550.6	4686.4	4751.3	4724.8	4594.9	4473.9	4338.2	4332.3
37.5°	10671.3	6619.4	4338.2	4420.8	4506.4	4553.6	4491.6	4335.2	4234.9	4096.2	4075.5
40°	10975.2	6430.5	4199.5	4285.0	4326.4	4367.7	4267.3	4140.4	4155.2	4078.5	4075.5
42.5°	11152.3	6247.5	4069.6	4134.5	4161.1	4190.6	4102.1	4007.6	4087.3	4028.3	4031.2
45°	11282.2	6088.2	3951.6	3975.2	4040.1	4084.4	4001.7	3895.5	3913.2	3686.0	3632.8
47.5°	11429.7	5999.6	3839.4	3815.8	3930.9	4007.6	3880.7	3727.3	3621.0	3396.7	3376.1
50°	11586.1	5967.2	3721.4	3656.4	3795.1	3868.9	3721.4	3529.5	3390.8	3269.8	3258.0
52.5°	11639.2	5964.2	3573.8	3464.6	3603.3	3706.6	3582.7	3387.9	3222.6	3104.6	3098.7
55°	11848.8	6049.8	3384.9	3202.0	3331.8	3544.3	3452.8	3172.5	3039.7	2986.5	2980.6
57.5°	12093.7	6064.6	3086.9	2915.7	3095.7	3346.6	3231.5	2989.5	2844.9	2780.0	2774.1
60°	11993.4	5701.6	2768.2	2697.3	2895.1	3160.7	3054.4	2844.9	2676.7	2614.7	2608.8
62.5°	9139.6	4025.3	2535.0	2508.5	2679.6	2892.1	2871.4	2653.1	2493.7	2449.4	2443.5
65°	5498.0	2827.2	2310.7	2307.8	2428.8	2632.4	2659.0	2481.9	2313.7	2251.7	2251.7
67.5°	2718.0	2163.2	2056.9	2042.2	2118.9	2263.5	2375.7	2231.1	2089.4	2030.4	2021.5
70°	1921.2	1906.4	1871.0	1829.7	1844.5	1903.5	1950.7	1829.7	1679.2	1620.2	1608.4
72.5°	1661.5	1664.4	1640.8	1608.4	1596.6	1555.2	1513.9	1425.4	1333.9	1271.9	1277.8
75°	1289.6	1295.5	1310.3	1298.5	1266.0	1221.8	1177.5	1065.4	991.6	932.6	920.8
77.5°	752.5	782.0	829.3	817.5	823.4	761.4	743.7	634.5	566.6	525.3	516.4
80°	425.0	442.7	463.3	478.1	460.4	433.8	395.5	336.4	315.8	286.3	280.4
82.5°	256.7	274.5	283.3	295.1	289.2	253.8	224.3	185.9	168.2	153.5	150.5
85°	129.8	141.7	150.5	156.4	138.7	115.1	103.3	82.6	70.8	62.0	62.0
87.5°	32.5	35.4	41.3	35.4	32.5	14.8	11.8	3.0	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)