

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: P639766

Luminaire Tested: GWS-SA5C-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639766  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-740-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

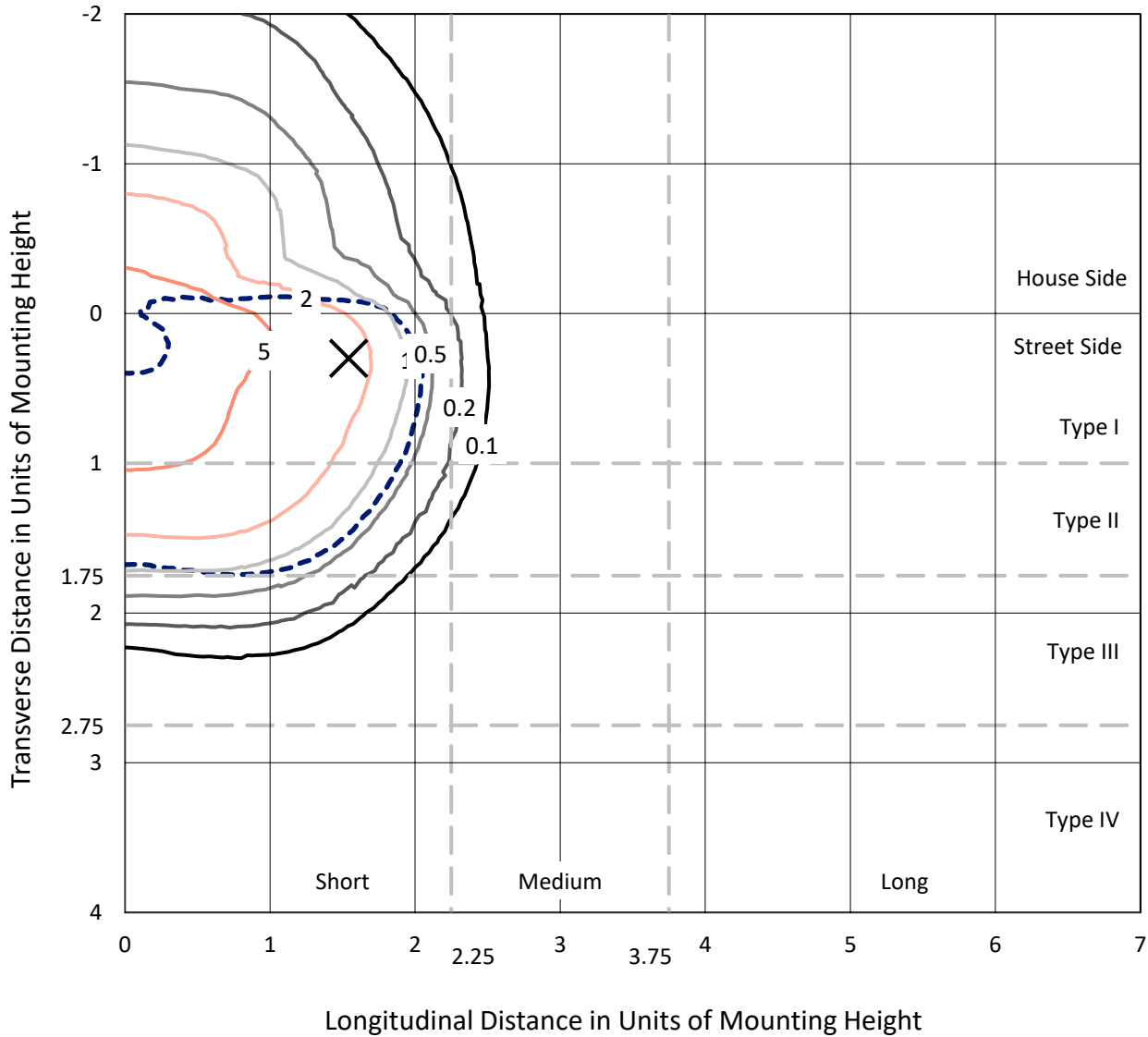
Lumens per Lamp: N/A  
Luminaire Lumens: 20877.2 lumens  
Efficiency: N/A  
Efficacy: 132.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

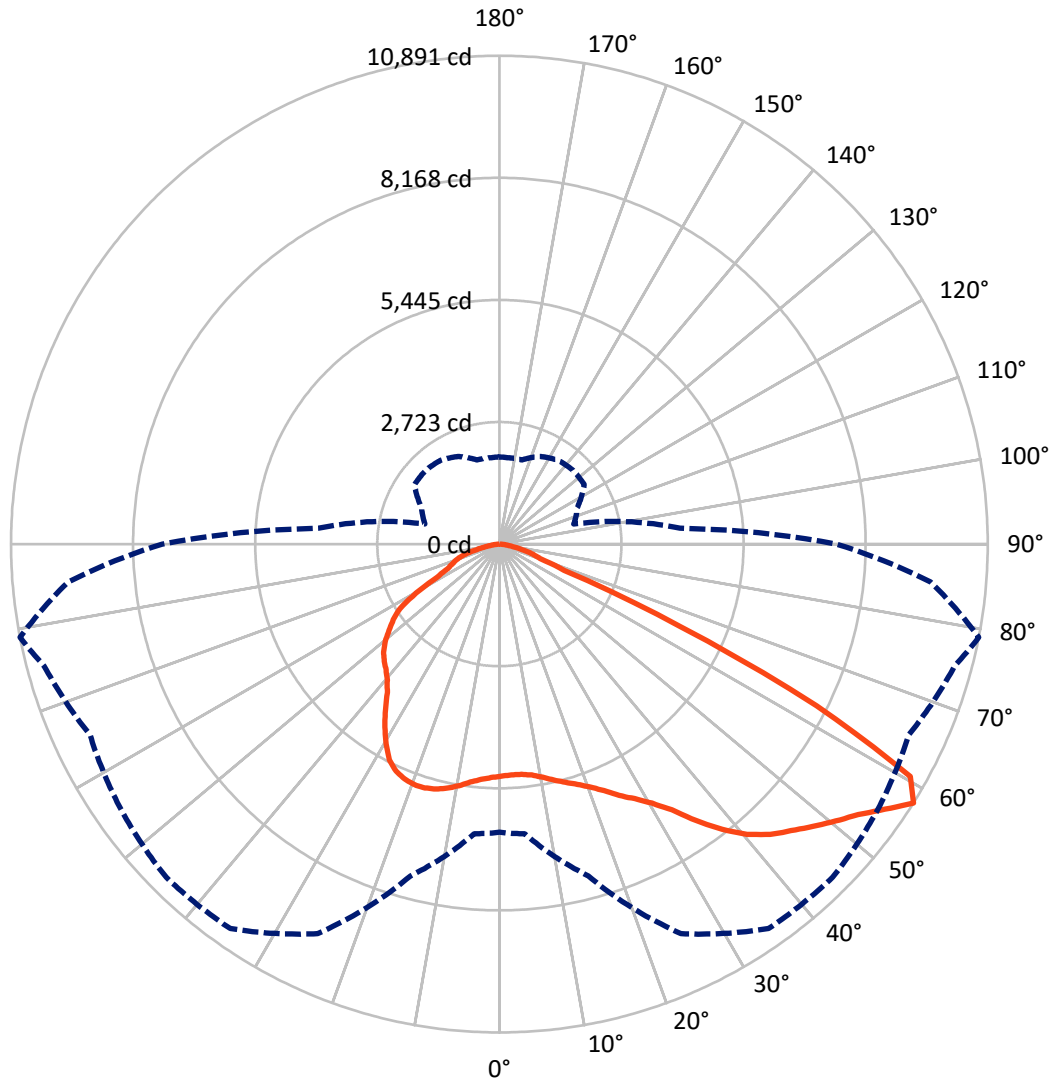
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P639766  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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CATALOG NUMBER: GWS-SA5C-740-U-T3R-W-GRSWH

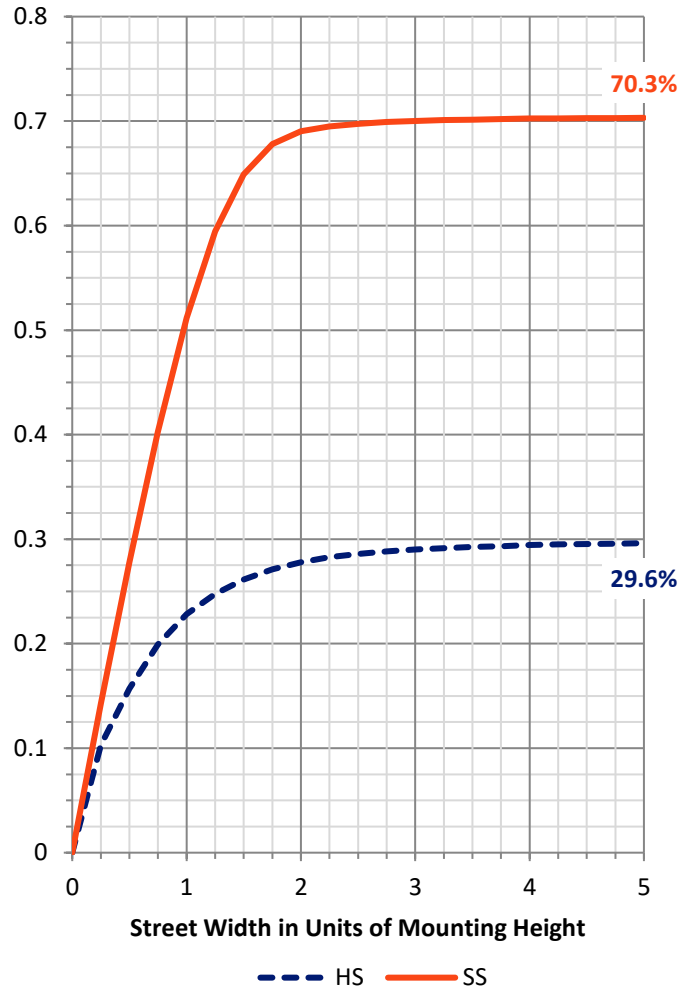
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6205.8	0.0	6205.8
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	14671.4	0.0	14671.4
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	20877.2	0.0	20877.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	479.1	2.3
10°-20°	1331.5	6.4
20°-30°	2257.0	10.8
30°-40°	3454.7	16.5
40°-50°	4606.5	22.1
50°-60°	5320.1	25.5
60°-70°	2764.5	13.2
70°-80°	587.7	2.8
80°-90°	76.1	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°	20877.2	100.0
0°-180°	20877.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P639766

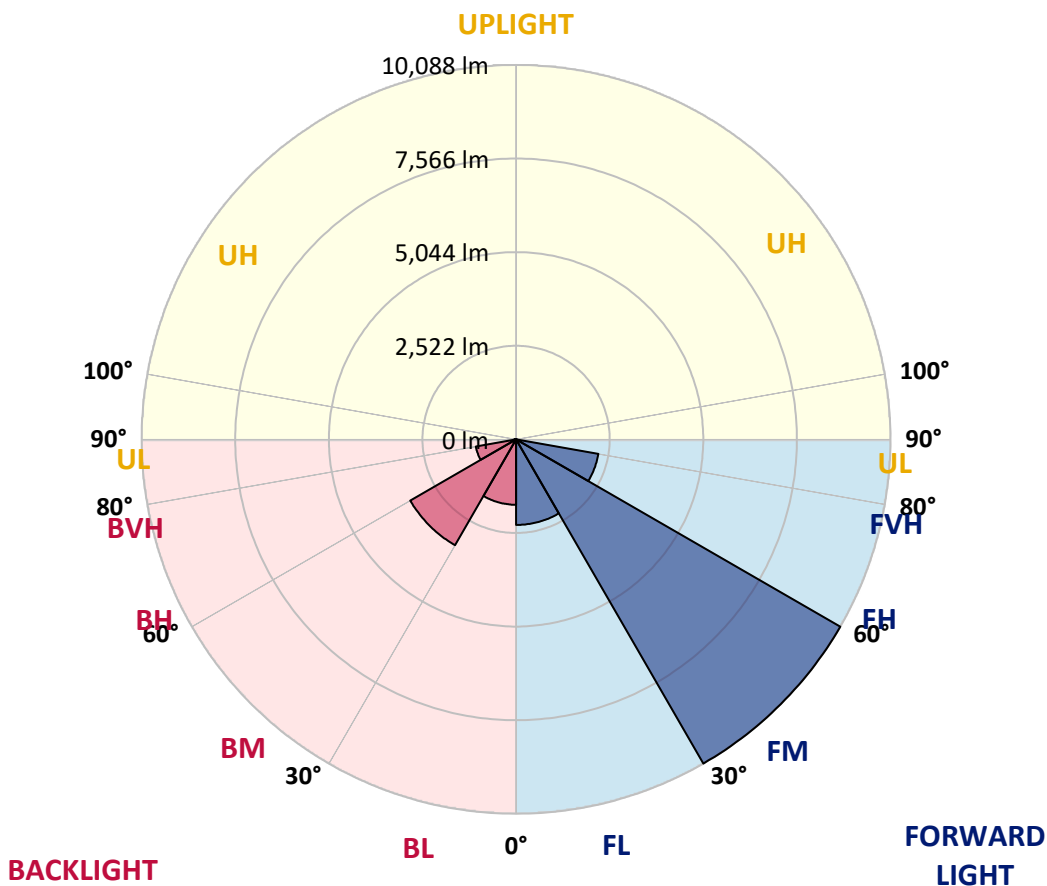
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2305.3	11.0			
FM (30°-60°)	10088.5	48.3			
FH (60°-80°)	2251.1	10.8			G2/5000
FVH (80°-90°)	26.5	0.1			G1/100
BL (0°-30°)	1762.4	8.4	B3/2500		
BM (30°-60°)	3292.8	15.8	B3/5000		
BH (60°-80°)	1101.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	49.6	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°	75°	79°	85°
0°	5173.9	5173.9	5173.9	5173.9	5173.9	5173.9	5173.9	5173.9	5173.9	5173.9	5173.9
2.5°	4938.3	4928.0	4931.5	4945.1	4996.3	5033.9	5073.1	5109.0	5143.1	5153.4	5161.9
5°	4762.5	4743.7	4748.8	4771.0	4830.8	4893.9	4963.9	5049.2	5131.2	5158.5	5194.3
7.5°	4637.9	4634.4	4643.0	4677.1	4740.3	4800.0	4890.5	5011.7	5153.4	5199.5	5262.6
10°	4472.3	4465.5	4499.6	4569.6	4673.7	4769.3	4876.8	5020.2	5218.2	5286.5	5383.8
12.5°	4340.8	4337.4	4373.3	4470.6	4603.7	4755.6	4904.2	5064.6	5305.3	5399.2	5518.7
15°	4417.7	4402.3	4404.0	4472.3	4591.8	4771.0	4972.4	5144.8	5392.3	5511.8	5665.5
17.5°	4641.3	4614.0	4593.5	4605.4	4673.7	4859.8	5076.6	5252.4	5493.1	5633.0	5820.8
20°	4950.2	4934.9	4878.5	4841.0	4856.4	5020.2	5240.4	5404.3	5624.5	5781.5	5983.0
22.5°	5365.0	5327.5	5250.7	5190.9	5144.8	5272.9	5476.0	5617.7	5807.1	5971.0	6181.0
25°	5878.8	5824.2	5703.0	5609.1	5510.1	5641.6	5822.5	5930.0	6058.1	6210.0	6409.7
27.5°	6402.9	6356.8	6221.9	6095.6	5972.7	6054.7	6269.7	6331.2	6317.5	6428.5	6599.2
30°	6961.1	6903.0	6775.0	6638.4	6479.7	6532.6	6725.5	6756.2	6611.1	6703.3	6819.4
32.5°	7550.0	7493.6	7382.7	7223.9	7044.7	7065.2	7118.1	7147.1	7008.9	7061.8	7150.5
35°	8149.1	8096.2	7983.5	7826.5	7695.1	7570.5	7437.3	7553.4	7473.2	7575.6	7568.7
37.5°	8697.1	8644.1	8574.2	8453.0	8227.6	7981.8	7674.6	7818.0	7942.6	8072.3	8050.1
40°	9067.5	9031.6	9048.7	9029.9	8739.7	8253.2	7790.7	7947.7	8287.4	8509.3	8497.3
42.5°	9386.7	9350.8	9449.8	9521.5	9180.1	8504.2	7847.0	7997.2	8507.6	8854.1	8837.0
45°	9528.4	9518.1	9682.0	9909.0	9583.0	8770.5	7992.1	8099.6	8674.9	9118.7	9053.8
47.5°	9359.4	9395.2	9717.8	10101.9	9917.5	9086.2	8289.1	8316.4	8893.4	9405.5	9222.8
50°	9023.1	9101.6	9536.9	10107.0	10161.6	9443.0	8700.5	8632.2	9187.0	9711.0	9311.6
52.5°	8533.2	8615.1	9325.2	10067.8	10301.6	9856.1	9248.4	9151.1	9557.4	10016.6	9326.9
55°	7408.3	7519.2	8840.4	9979.0	10438.2	10231.6	9866.3	9668.3	10035.3	10436.5	9478.9
57.5°	6426.8	6484.8	7659.2	9584.7	10465.5	10508.2	10306.7	10071.2	10509.9	10890.5	9649.6
60°	4716.4	4730.0	5786.7	7930.6	9627.4	10347.7	10270.9	9921.0	10284.5	10526.9	8867.8
62.5°	2664.6	2666.3	3509.5	5293.3	7191.5	8434.2	8482.0	8173.0	7867.5	7939.2	6172.4
65°	1000.3	1094.2	1602.9	2601.4	4146.3	4979.3	5177.3	5249.0	4740.3	4424.5	3309.8
67.5°	669.1	691.3	935.4	1338.3	1845.2	2130.3	2382.9	2389.8	1747.9	1558.5	1304.1
70°	510.4	532.6	735.7	957.6	935.4	863.7	933.7	908.1	938.8	964.4	991.8
72.5°	380.7	402.8	570.1	676.0	561.6	553.1	626.5	696.4	761.3	788.6	831.3
75°	252.6	269.7	384.1	361.9	310.7	367.0	457.5	527.5	565.0	597.4	629.9
77.5°	160.5	172.4	204.8	165.6	172.4	215.1	266.3	329.4	365.3	397.7	414.8
80°	73.4	71.7	70.0	78.5	97.3	126.3	160.5	198.0	225.3	239.0	249.2
82.5°	29.0	32.4	35.8	42.7	52.9	68.3	90.5	116.1	138.3	141.7	150.2
85°	11.9	13.7	15.4	18.8	23.9	30.7	37.6	52.9	66.6	71.7	76.8
87.5°	0.0	0.0	0.0	0.0	1.7	3.4	5.1	8.5	15.4	17.1	18.8
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°	5173.9	5173.9	5173.9	5173.9	5173.9	5173.9	5173.9	5173.9	5173.9	5173.9	5173.9
2.5°	5208.0	5185.8	5223.4	5249.0	5272.9	5247.3	5238.7	5216.5	5213.1	5213.1	5225.1
5°	5255.8	5240.4	5279.7	5295.0	5293.3	5237.0	5202.9	5158.5	5136.3	5136.3	5139.7
7.5°	5341.1	5332.6	5354.8	5330.9	5276.3	5161.9	5049.2	4955.4	4892.2	4859.8	4870.0
10°	5482.8	5472.6	5453.8	5365.0	5208.0	4970.7	4740.3	4569.6	4467.2	4409.1	4412.5
12.5°	5621.1	5604.0	5537.4	5341.1	5018.5	4641.3	4339.1	4148.0	4035.3	3967.0	3951.7
15°	5773.0	5728.6	5585.2	5218.2	4709.6	4238.4	3922.6	3716.1	3594.9	3553.9	3552.2
17.5°	5918.1	5839.6	5580.1	4999.7	4339.1	3816.8	3499.3	3371.3	3350.8	3369.6	3374.7
20°	6064.9	5938.6	5523.8	4697.6	3898.7	3396.9	3233.0	3285.9	3362.7	3414.0	3425.9
22.5°	6216.8	6020.5	5395.8	4308.4	3434.4	3113.5	3181.8	3297.9	3393.5	3461.8	3468.6
25°	6387.5	6097.3	5204.6	3832.2	3062.3	3035.0	3169.9	3292.8	3395.2	3473.7	3487.4
27.5°	6484.8	6099.0	4936.6	3342.3	2891.6	3004.3	3140.8	3256.9	3359.3	3444.7	3460.0
30°	6580.4	6052.9	4511.5	2944.5	2842.1	2968.4	3091.3	3198.9	3296.2	3379.8	3398.6
32.5°	6715.3	6010.3	4021.6	2715.8	2813.1	2934.3	3035.0	3130.6	3205.7	3243.3	3253.5
35°	6882.5	5955.6	3501.0	2616.8	2794.3	2907.0	2995.7	3047.0	2949.7	2929.2	2951.4
37.5°	7116.4	5904.4	2982.1	2574.1	2782.4	2896.7	2975.3	2843.8	2724.3	2676.5	2693.6
40°	7369.0	5875.4	2630.5	2540.0	2787.5	2907.0	2889.9	2695.3	2522.9	2422.2	2418.8
42.5°	7584.1	5831.0	2405.1	2517.8	2801.2	2946.2	2773.8	2563.9	2307.8	2248.1	2249.8
45°	7729.2	5718.4	2285.6	2493.9	2813.1	2954.8	2719.2	2382.9	2200.3	2162.7	2161.0
47.5°	7788.9	5513.5	2208.8	2456.3	2811.4	2884.8	2608.3	2307.8	2125.2	2114.9	2121.8
50°	7749.7	5177.3	2130.3	2382.9	2770.4	2811.4	2480.2	2241.3	2074.0	2130.3	2171.3
52.5°	7604.6	4742.0	2036.4	2282.2	2697.0	2727.8	2415.4	2200.3	2036.4	2111.5	2144.0
55°	7567.0	4388.6	1916.9	2150.8	2587.8	2579.2	2347.1	2179.8	2010.8	1981.8	1986.9
57.5°	7517.5	4043.8	1718.9	1915.2	2311.2	2324.9	2282.2	2155.9	1944.2	1935.7	1944.2
60°	6530.9	3099.9	1532.9	1652.4	1898.2	1971.6	2208.8	2111.5	1836.7	1800.9	1799.2
62.5°	4265.7	1877.7	1363.9	1440.7	1546.5	1631.9	2014.2	1983.5	1718.9	1696.7	1712.1
65°	2294.2	1338.3	1241.0	1287.1	1345.1	1410.0	1669.4	1766.7	1553.4	1474.8	1476.5
67.5°	1172.7	1138.6	1148.8	1181.2	1225.6	1258.0	1346.8	1432.2	1324.6	1258.0	1256.3
70°	1003.7	1031.0	1046.4	1065.2	1094.2	1089.1	1097.6	1113.0	1104.4	1072.0	1070.3
72.5°	855.2	897.9	901.3	904.7	914.9	891.0	875.7	850.1	851.8	856.9	858.6
75°	650.4	691.3	701.6	696.4	706.7	676.0	655.5	629.9	599.1	594.0	597.4
77.5°	423.3	455.8	471.1	467.7	472.8	448.9	438.7	411.4	375.5	361.9	361.9
80°	256.0	274.8	286.8	290.2	295.3	278.2	261.2	237.3	221.9	206.5	206.5
82.5°	155.3	167.3	175.8	175.8	180.9	162.2	148.5	131.4	124.6	111.0	111.0
85°	78.5	87.1	90.5	88.8	85.3	70.0	64.9	56.3	52.9	46.1	46.1
87.5°	18.8	23.9	23.9	17.1	17.1	8.5	5.1	1.7	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)