

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: P639711

Luminaire Tested: GWS-SA5C-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639711  
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-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

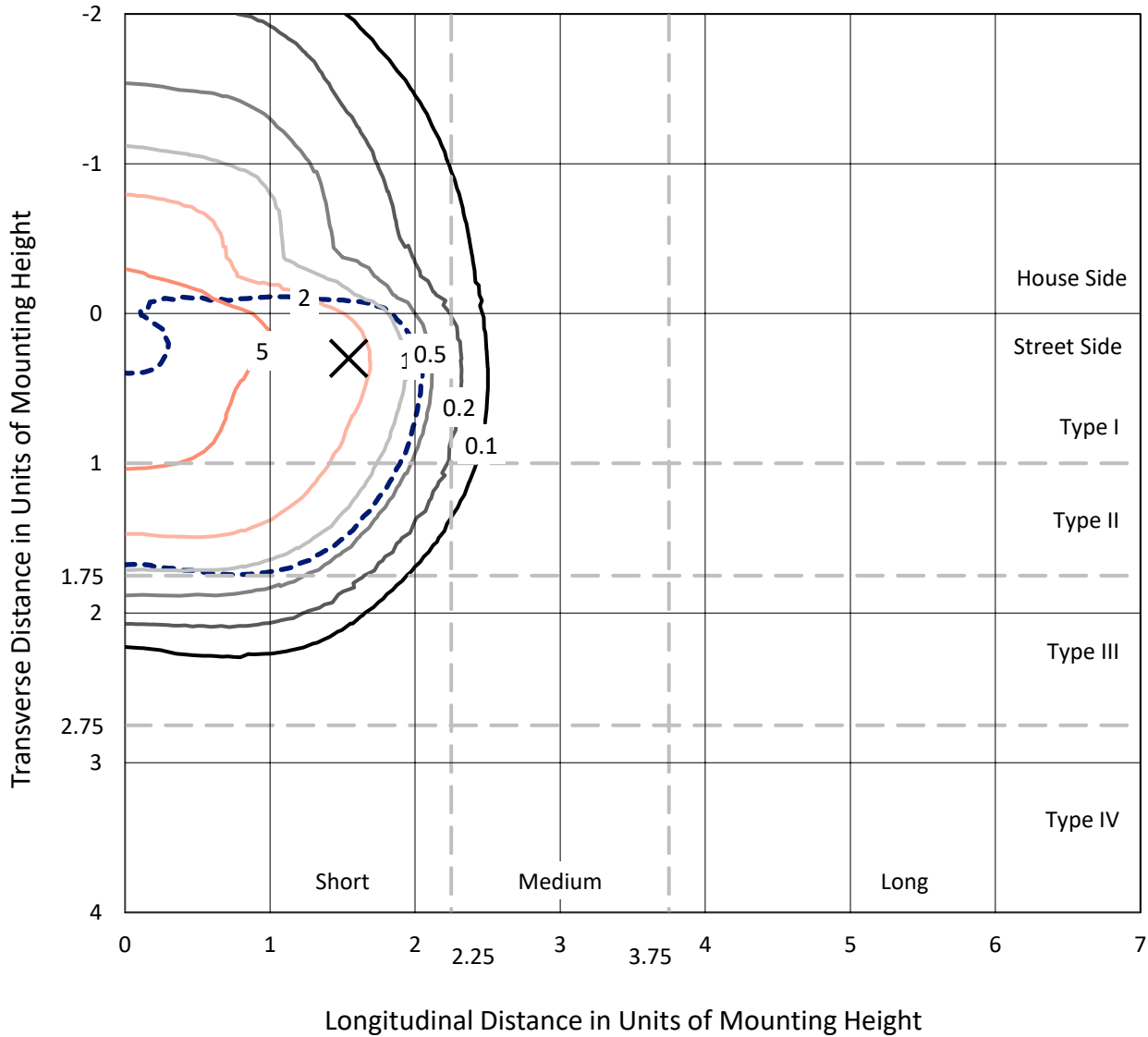
Lumens per Lamp: N/A  
Luminaire Lumens: 20591.1 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

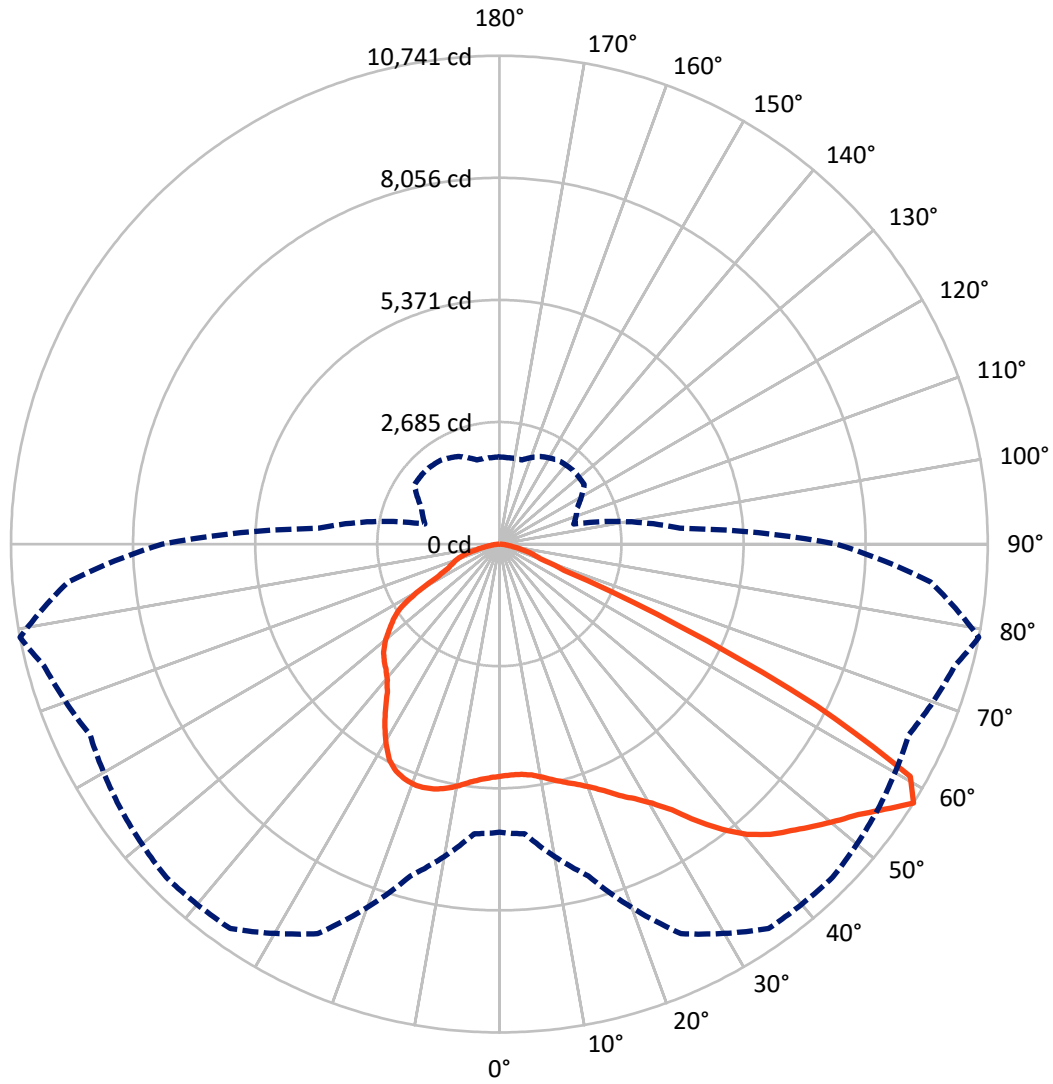
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type II - Short - N/A

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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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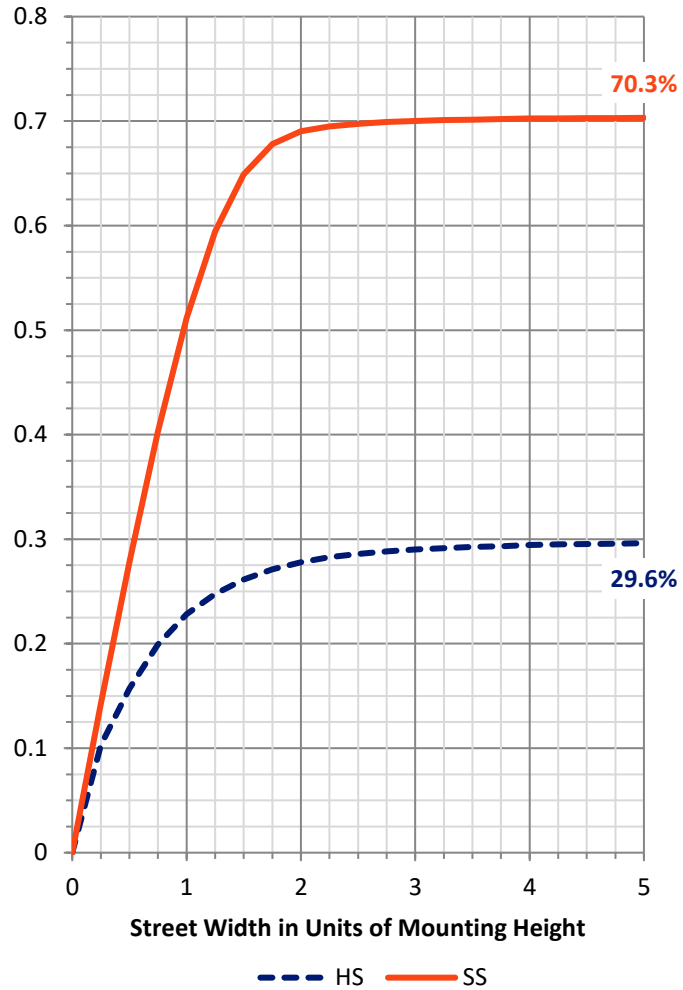
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6120.8	0.0	6120.8
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	14470.3	0.0	14470.3
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	20591.1	0.0	20591.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	472.6	2.3
10°-20°	1313.3	6.4
20°-30°	2226.1	10.8
30°-40°	3407.3	16.5
40°-50°	4543.3	22.1
50°-60°	5247.2	25.5
60°-70°	2726.6	13.2
70°-80°	579.6	2.8
80°-90°	75.1	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°	20591.1	100.0
0°-180°	20591.1	100.0

**Coefficient of Utilization**



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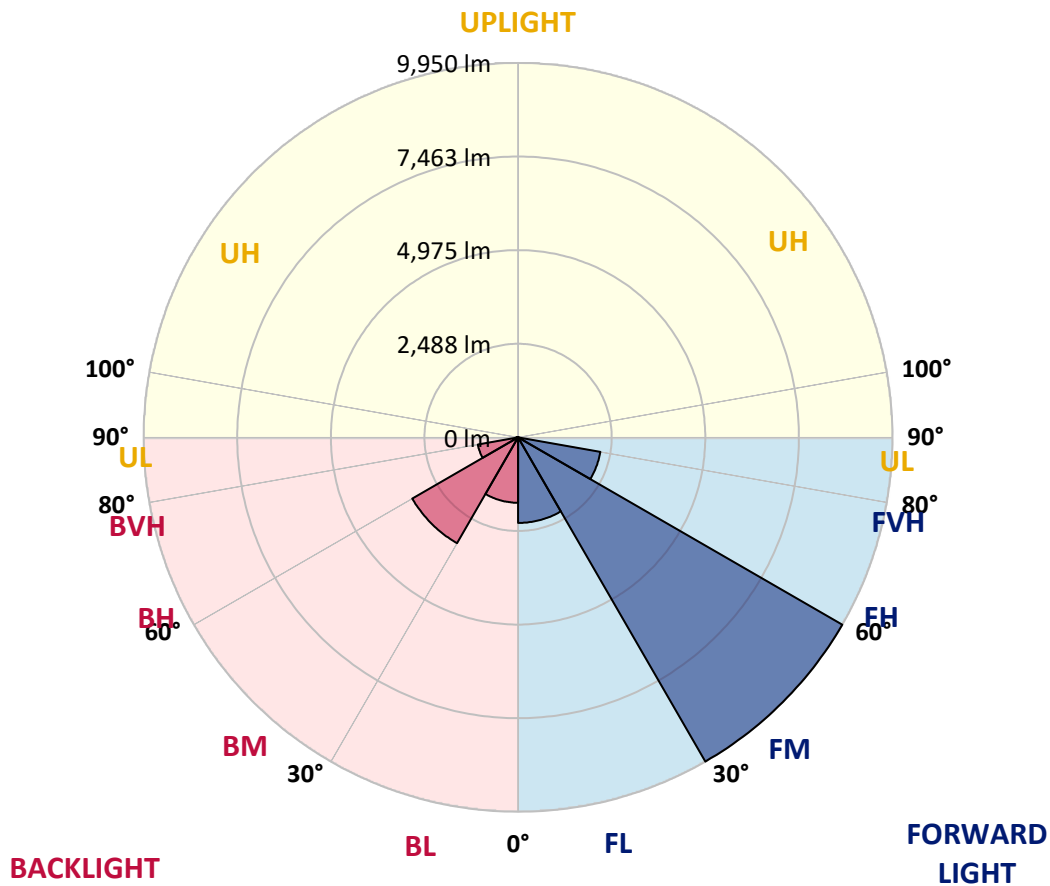
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2273.7	11.0			
FM (30°-60°)	9950.2	48.3			
FH (60°-80°)	2220.2	10.8			G2/5000
FVH (80°-90°)	26.2	0.1			G1/100
BL (0°-30°)	1738.2	8.4	B3/2500		
BM (30°-60°)	3247.6	15.8	B3/5000		
BH (60°-80°)	1086.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	48.9	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°	5103.0	5103.0	5103.0	5103.0	5103.0	5103.0	5103.0	5103.0	5103.0	5103.0	5103.0
2.5°	4870.6	4860.5	4863.9	4877.4	4927.9	4964.9	5003.6	5039.0	5072.6	5082.7	5091.2
5°	4697.2	4678.7	4683.7	4705.6	4764.5	4826.8	4895.9	4980.0	5060.9	5087.8	5123.2
7.5°	4574.3	4570.9	4579.4	4613.0	4675.3	4734.2	4823.5	4943.0	5082.7	5128.2	5190.5
10°	4411.0	4404.3	4437.9	4507.0	4609.7	4703.9	4810.0	4951.4	5146.7	5214.1	5310.0
12.5°	4281.4	4278.0	4313.3	4409.3	4540.6	4690.5	4836.9	4995.2	5232.6	5325.2	5443.0
15°	4357.1	4342.0	4343.7	4411.0	4528.8	4705.6	4904.3	5074.3	5318.4	5436.3	5587.8
17.5°	4577.7	4550.7	4530.5	4542.3	4609.7	4793.2	5007.0	5180.4	5417.8	5555.8	5741.0
20°	4882.4	4867.2	4811.7	4774.7	4789.8	4951.4	5168.6	5330.2	5547.4	5702.3	5901.0
22.5°	5291.5	5254.5	5178.7	5119.8	5074.3	5200.6	5400.9	5540.7	5727.6	5889.2	6096.3
25°	5798.3	5744.4	5624.9	5532.3	5434.6	5564.3	5742.7	5848.8	5975.0	6124.9	6321.9
27.5°	6315.1	6269.7	6136.7	6012.1	5890.9	5971.7	6183.8	6244.4	6231.0	6340.4	6508.7
30°	6865.7	6808.4	6682.2	6547.5	6390.9	6443.1	6633.3	6663.6	6520.5	6611.4	6725.9
32.5°	7446.5	7390.9	7281.5	7124.9	6948.2	6968.4	7020.6	7049.2	6912.8	6965.0	7052.5
35°	8037.4	7985.3	7874.1	7719.2	7589.6	7466.7	7335.4	7449.9	7370.7	7471.8	7465.0
37.5°	8577.9	8525.7	8456.7	8337.1	8114.9	7872.5	7569.4	7710.8	7833.7	7961.7	7939.8
40°	8943.2	8907.9	8924.7	8906.2	8620.0	8140.1	7683.9	7838.8	8173.8	8392.7	8380.9
42.5°	9258.0	9222.7	9320.3	9391.0	9054.3	8387.6	7739.4	7887.6	8391.0	8732.8	8715.9
45°	9397.8	9387.7	9549.3	9773.2	9451.7	8650.3	7882.6	7988.6	8556.0	8993.7	8929.7
47.5°	9231.1	9266.5	9584.7	9963.5	9781.6	8961.7	8175.5	8202.4	8771.5	9276.6	9096.4
50°	8899.4	8976.9	9406.2	9968.5	10022.4	9313.6	8581.2	8513.9	9061.1	9577.9	9184.0
52.5°	8416.2	8497.1	9197.4	9929.8	10160.4	9721.0	9121.7	9025.7	9426.4	9879.3	9199.1
55°	7306.8	7416.2	8719.3	9842.2	10295.1	10091.4	9731.1	9535.8	9897.8	10293.4	9349.0
57.5°	6338.7	6395.9	7554.3	9453.3	10322.1	10364.2	10165.5	9933.2	10365.8	10741.3	9517.3
60°	4651.7	4665.2	5707.4	7821.9	9495.4	10205.9	10130.1	9785.0	10143.6	10382.7	8746.2
62.5°	2628.1	2629.8	3461.5	5220.8	7092.9	8318.6	8365.7	8061.0	7759.7	7830.4	6087.8
65°	986.6	1079.2	1580.9	2565.8	4089.4	4911.0	5106.3	5177.0	4675.3	4363.9	3264.5
67.5°	660.0	681.9	922.6	1319.9	1820.0	2101.1	2350.3	2357.0	1724.0	1537.1	1286.3
70°	503.4	525.3	725.6	944.5	922.6	851.9	920.9	895.7	926.0	951.2	978.2
72.5°	375.4	397.3	562.3	666.7	553.9	545.5	617.9	686.9	750.9	777.8	819.9
75°	249.2	266.0	378.8	356.9	306.4	362.0	451.2	520.2	557.3	589.3	621.2
77.5°	158.3	170.0	202.0	163.3	170.0	212.1	262.6	324.9	360.3	392.3	409.1
80°	72.4	70.7	69.0	77.4	96.0	124.6	158.3	195.3	222.2	235.7	245.8
82.5°	28.6	32.0	35.4	42.1	52.2	67.3	89.2	114.5	136.4	139.7	148.2
85°	11.8	13.5	15.2	18.5	23.6	30.3	37.0	52.2	65.7	70.7	75.8
87.5°	0.0	0.0	0.0	0.0	1.7	3.4	5.1	8.4	15.2	16.8	18.5
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°	5103.0	5103.0	5103.0	5103.0	5103.0	5103.0	5103.0	5103.0	5103.0	5103.0	5103.0
2.5°	5136.6	5114.7	5151.8	5177.0	5200.6	5175.3	5166.9	5145.0	5141.7	5141.7	5153.5
5°	5183.8	5168.6	5207.3	5222.5	5220.8	5165.2	5131.6	5087.8	5065.9	5065.9	5069.3
7.5°	5267.9	5259.5	5281.4	5257.8	5204.0	5091.2	4980.0	4887.5	4825.2	4793.2	4803.3
10°	5407.7	5397.6	5379.1	5291.5	5136.6	4902.6	4675.3	4507.0	4405.9	4348.7	4352.1
12.5°	5544.1	5527.2	5461.6	5267.9	4949.7	4577.7	4279.7	4091.1	3980.0	3912.7	3897.5
15°	5693.9	5650.1	5508.7	5146.7	4645.0	4180.3	3868.9	3665.2	3545.6	3505.2	3503.5
17.5°	5837.0	5759.5	5503.6	4931.2	4279.7	3764.5	3451.4	3325.1	3304.9	3323.4	3328.5
20°	5981.8	5857.2	5448.1	4633.2	3845.3	3350.3	3188.7	3240.9	3316.7	3367.2	3379.0
22.5°	6131.6	5938.0	5321.8	4249.4	3387.4	3070.9	3138.2	3252.7	3347.0	3414.3	3421.0
25°	6300.0	6013.8	5133.3	3779.7	3020.4	2993.4	3126.4	3247.6	3348.7	3426.1	3439.6
27.5°	6395.9	6015.5	4868.9	3296.5	2852.0	2963.1	3097.8	3212.3	3313.3	3397.5	3412.6
30°	6490.2	5970.0	4449.7	2904.2	2803.2	2927.8	3049.0	3155.0	3251.0	3333.5	3352.0
32.5°	6623.2	5927.9	3966.5	2678.6	2774.6	2894.1	2993.4	3087.7	3161.8	3198.8	3208.9
35°	6788.2	5874.0	3453.0	2580.9	2756.0	2867.1	2954.7	3005.2	2909.2	2889.0	2910.9
37.5°	7018.9	5823.5	2941.2	2538.8	2744.2	2857.0	2934.5	2804.9	2687.0	2639.9	2656.7
40°	7268.0	5794.9	2594.4	2505.2	2749.3	2867.1	2850.3	2658.4	2488.3	2389.0	2385.6
42.5°	7480.2	5751.1	2372.2	2483.3	2762.8	2905.9	2735.8	2528.7	2276.2	2217.3	2219.0
45°	7623.3	5640.0	2254.3	2459.7	2774.6	2914.3	2682.0	2350.3	2170.1	2133.1	2131.4
47.5°	7682.2	5438.0	2178.6	2422.7	2772.9	2845.3	2572.5	2276.2	2096.1	2086.0	2092.7
50°	7643.5	5106.3	2101.1	2350.3	2732.5	2772.9	2446.3	2210.5	2045.6	2101.1	2141.5
52.5°	7500.4	4677.0	2008.5	2251.0	2660.1	2690.4	2382.3	2170.1	2008.5	2082.6	2114.6
55°	7463.3	4328.5	1890.7	2121.3	2552.3	2543.9	2314.9	2149.9	1983.3	1954.6	1959.7
57.5°	7414.5	3988.4	1695.4	1889.0	2279.6	2293.0	2251.0	2126.4	1917.6	1909.2	1917.6
60°	6441.4	3057.4	1511.9	1629.7	1872.1	1944.5	2178.6	2082.6	1811.5	1776.2	1774.5
62.5°	4207.3	1851.9	1345.2	1420.9	1525.3	1609.5	1986.6	1956.3	1695.4	1673.5	1688.6
65°	2262.7	1319.9	1224.0	1269.4	1326.7	1390.6	1646.5	1742.5	1532.1	1454.6	1456.3
67.5°	1156.6	1123.0	1133.1	1165.0	1208.8	1240.8	1328.3	1412.5	1306.5	1240.8	1239.1
70°	989.9	1016.9	1032.0	1050.6	1079.2	1074.1	1082.5	1097.7	1089.3	1057.3	1055.6
72.5°	843.5	885.6	888.9	892.3	902.4	878.8	863.7	838.4	840.1	845.2	846.8
75°	641.4	681.9	692.0	686.9	697.0	666.7	646.5	621.2	590.9	585.9	589.3
77.5°	417.5	449.5	464.7	461.3	466.4	442.8	432.7	405.7	370.4	356.9	356.9
80°	252.5	271.1	282.8	286.2	291.3	274.4	257.6	234.0	218.9	203.7	203.7
82.5°	153.2	165.0	173.4	173.4	178.5	159.9	146.5	129.6	122.9	109.4	109.4
85°	77.4	85.9	89.2	87.5	84.2	69.0	64.0	55.6	52.2	45.5	45.5
87.5°	18.5	23.6	23.6	16.8	16.8	8.4	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)