

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: P640701

Luminaire Tested: GWS-SA5E-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640701  
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-SA5E-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**

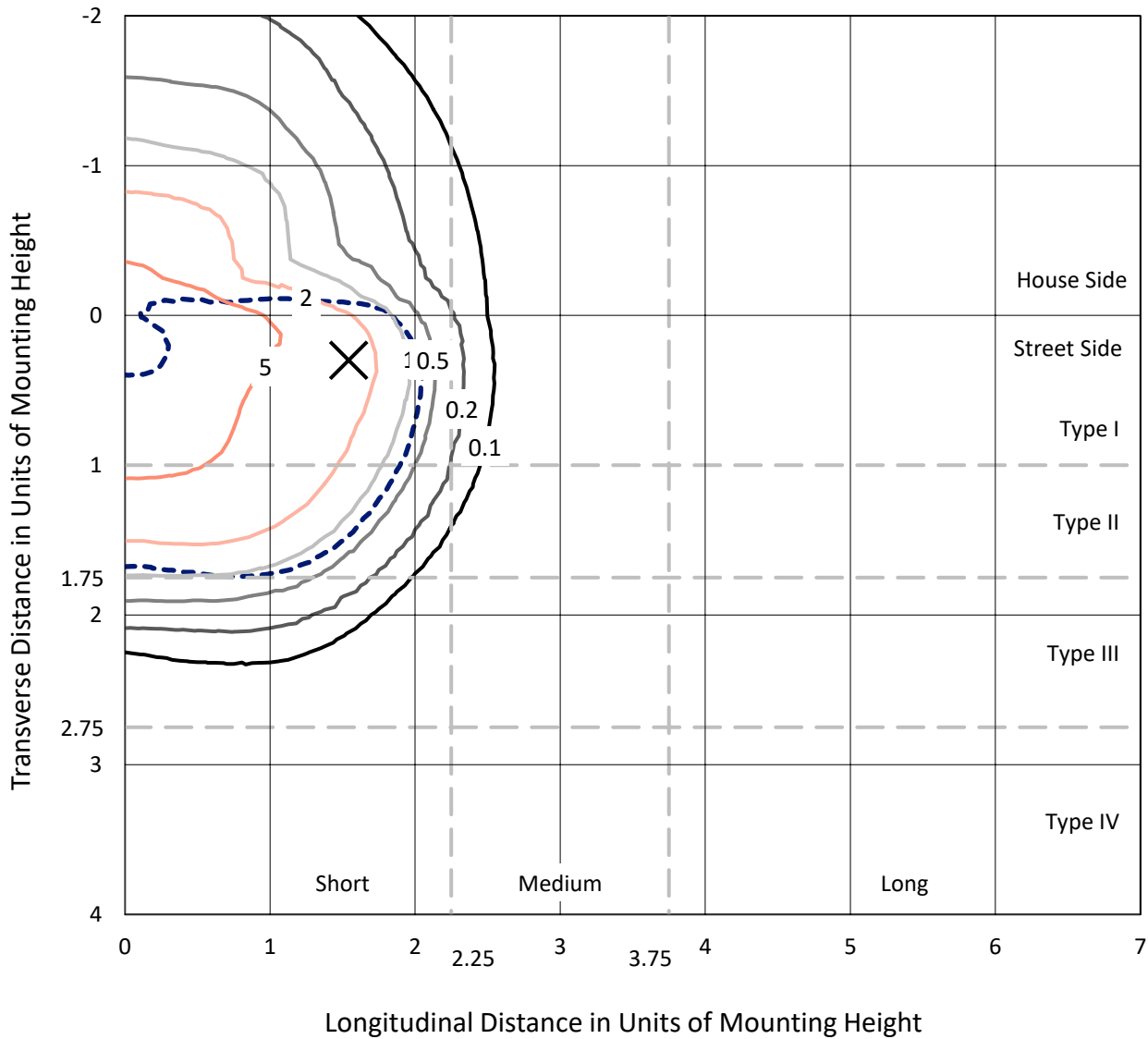
Lumens per Lamp: N/A  
Luminaire Lumens: 32462 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

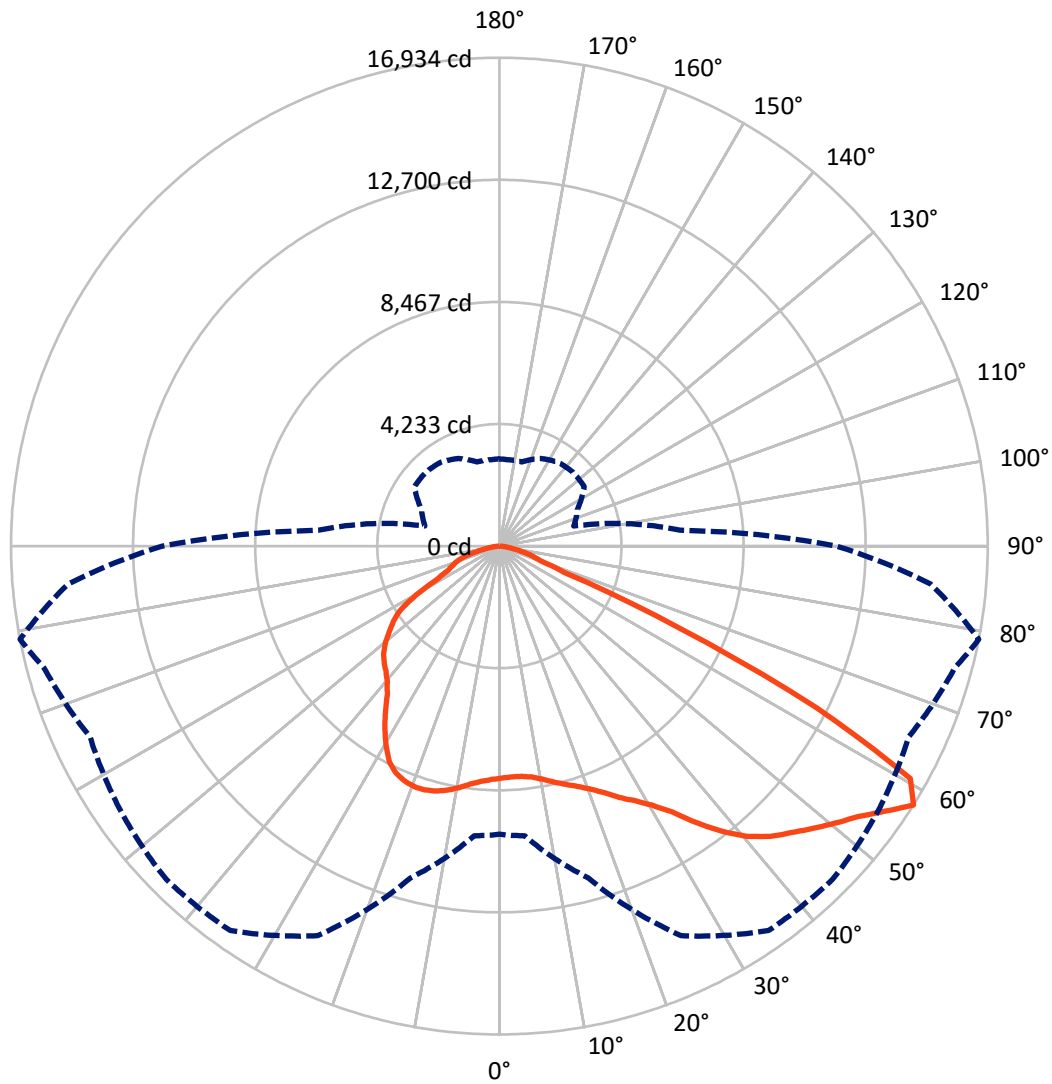
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 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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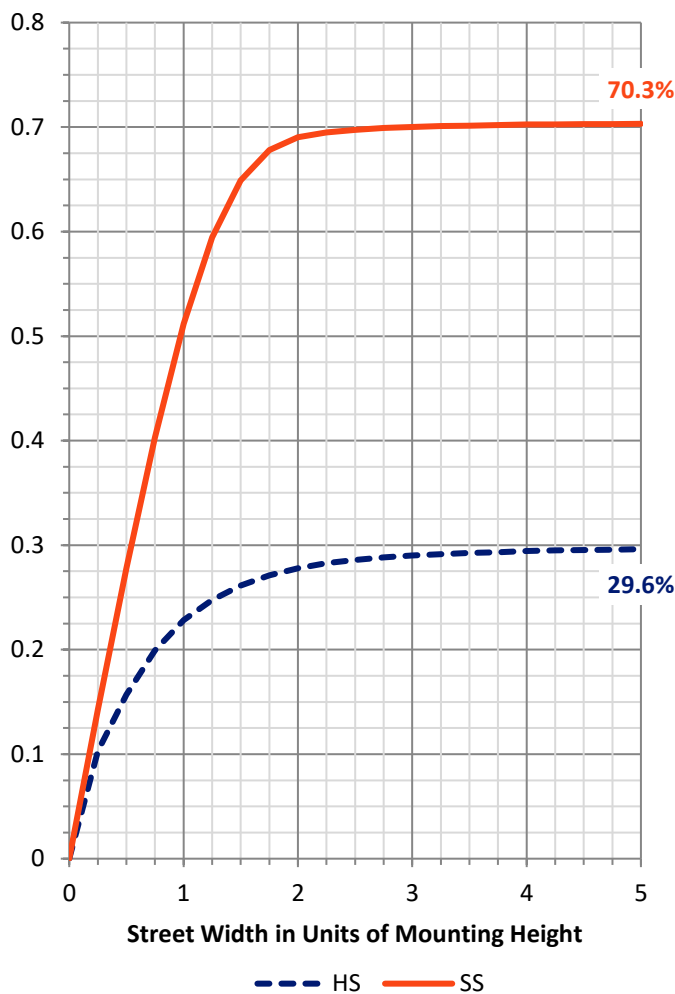
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9649.5	0.0	9649.5
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	22812.6	0.0	22812.6
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	32462.0	0.0	32462.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	745.0	2.3
10°-20°	2070.4	6.4
20°-30°	3509.4	10.8
30°-40°	5371.7	16.5
40°-50°	7162.6	22.1
50°-60°	8272.2	25.5
60°-70°	4298.5	13.2
70°-80°	913.8	2.8
80°-90°	118.4	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°	32462.0	100.0
0°-180°	32462.0	100.0

**Coefficient of Utilization**



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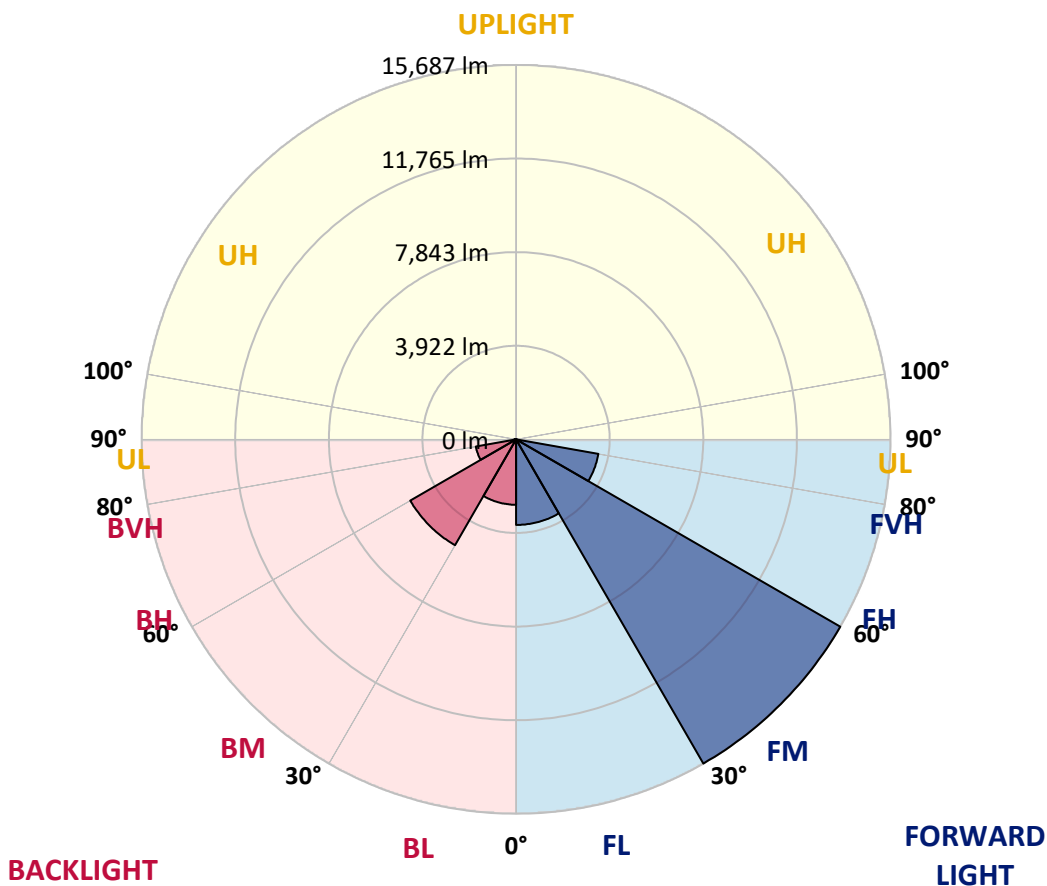
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3584.5	11.0			
FM (30°-60°)	15686.6	48.3			
FH (60°-80°)	3500.2	10.8			G2/5000
FVH (80°-90°)	41.3	0.1			G1/100
BL (0°-30°)	2740.3	8.4	B4/5000		
BM (30°-60°)	5119.9	15.8	B4/8500		
BH (60°-80°)	1712.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	77.1	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8044.8	8044.8	8044.8	8044.8	8044.8	8044.8	8044.8	8044.8	8044.8	8044.8	8044.8
2.5°	7678.6	7662.6	7667.9	7689.2	7768.8	7827.2	7888.2	7944.0	7997.1	8013.0	8026.3
5°	7405.2	7376.0	7383.9	7418.4	7511.3	7609.5	7718.4	7851.1	7978.5	8020.9	8076.7
7.5°	7211.4	7206.1	7219.4	7272.5	7370.7	7463.6	7604.2	7792.7	8013.0	8084.6	8182.9
10°	6954.0	6943.3	6996.4	7105.3	7267.2	7415.8	7583.0	7806.0	8113.8	8220.0	8371.3
12.5°	6749.6	6744.3	6800.0	6951.3	7158.3	7394.6	7625.5	7875.0	8249.2	8395.2	8581.0
15°	6869.0	6845.1	6847.8	6954.0	7139.8	7418.4	7731.6	7999.7	8384.6	8570.4	8809.2
17.5°	7216.7	7174.3	7142.4	7161.0	7267.2	7556.5	7893.5	8166.9	8541.2	8758.8	9050.8
20°	7697.1	7673.2	7585.7	7527.3	7551.2	7806.0	8148.3	8403.1	8745.5	8989.7	9302.9
22.5°	8342.1	8283.7	8164.3	8071.4	7999.7	8198.8	8514.6	8734.9	9029.5	9284.3	9610.8
25°	9141.0	9056.1	8867.6	8721.7	8567.7	8772.1	9053.4	9220.6	9419.7	9655.9	9966.5
27.5°	9955.8	9884.2	9674.5	9478.1	9287.0	9414.4	9748.8	9844.4	9823.1	9995.7	10261.1
30°	10823.8	10733.5	10534.5	10322.1	10075.3	10157.6	10457.5	10505.3	10279.7	10423.0	10603.5
32.5°	11739.5	11651.9	11479.3	11232.5	10953.8	10985.7	11068.0	11113.1	10898.1	10980.4	11118.4
35°	12671.1	12588.8	12413.6	12169.4	11965.1	11771.3	11564.3	11744.8	11620.0	11779.3	11768.7
37.5°	13523.1	13440.8	13332.0	13143.5	12793.2	12411.0	11933.2	12156.2	12349.9	12551.6	12517.1
40°	14099.0	14043.3	14069.8	14040.6	13589.4	12833.0	12113.7	12357.9	12886.1	13231.1	13212.5
42.5°	14595.4	14539.6	14693.6	14805.0	14274.2	13223.1	12201.3	12434.9	13228.5	13767.3	13740.7
45°	14815.7	14799.7	15054.5	15407.5	14900.6	13637.2	12426.9	12594.1	13488.6	14178.7	14077.8
47.5°	14552.9	14608.6	15110.3	15707.5	15420.8	14128.2	12888.7	12931.2	13828.3	14624.6	14340.6
50°	14030.0	14152.1	14828.9	15715.4	15800.4	14683.0	13528.4	13422.2	14284.8	15099.7	14478.6
52.5°	13268.3	13395.7	14499.8	15654.4	16018.0	15325.3	14380.4	14229.1	14860.8	15574.8	14502.5
55°	11519.2	11691.7	13746.0	15516.4	16230.3	15909.2	15341.2	15033.3	15604.0	16227.7	14738.7
57.5°	9993.0	10083.2	11909.3	14903.2	16272.8	16339.2	16026.0	15659.7	16341.8	16933.7	15004.1
60°	7333.5	7354.7	8997.7	12331.3	14969.6	16089.7	15970.2	15426.1	15991.5	16368.4	13788.5
62.5°	4143.2	4145.8	5457.0	8230.6	11182.1	13114.3	13188.6	12708.2	12233.1	12344.6	9597.5
65°	1555.4	1701.3	2492.3	4045.0	6447.0	7742.3	8050.1	8161.6	7370.7	6879.6	5146.5
67.5°	1040.4	1074.9	1454.5	2080.9	2869.2	3312.4	3705.2	3715.9	2717.9	2423.3	2027.8
70°	793.6	828.1	1144.0	1489.0	1454.5	1343.0	1451.8	1412.0	1459.8	1499.6	1542.1
72.5°	591.9	626.4	886.5	1051.1	873.2	860.0	974.1	1082.9	1183.8	1226.2	1292.6
75°	392.8	419.4	597.2	562.7	483.1	570.6	711.3	820.1	878.5	929.0	979.4
77.5°	249.5	268.1	318.5	257.5	268.1	334.4	414.1	512.3	568.0	618.4	645.0
80°	114.1	111.5	108.8	122.1	151.3	196.4	249.5	307.9	350.4	371.6	387.5
82.5°	45.1	50.4	55.7	66.4	82.3	106.2	140.7	180.5	215.0	220.3	233.6
85°	18.6	21.2	23.9	29.2	37.2	47.8	58.4	82.3	103.5	111.5	119.4
87.5°	0.0	0.0	0.0	0.0	2.7	5.3	8.0	13.3	23.9	26.5	29.2
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°	8044.8	8044.8	8044.8	8044.8	8044.8	8044.8	8044.8	8044.8	8044.8	8044.8	8044.8
2.5°	8097.9	8063.4	8121.8	8161.6	8198.8	8159.0	8145.7	8111.2	8105.9	8105.9	8124.5
5°	8172.2	8148.3	8209.4	8233.3	8230.6	8143.0	8090.0	8020.9	7986.4	7986.4	7991.8
7.5°	8304.9	8291.7	8326.2	8289.0	8204.1	8026.3	7851.1	7705.1	7606.9	7556.5	7572.4
10°	8525.2	8509.3	8480.1	8342.1	8097.9	7729.0	7370.7	7105.3	6946.0	6855.8	6861.1
12.5°	8740.2	8713.7	8610.2	8304.9	7803.3	7216.7	6746.9	6449.7	6274.5	6168.3	6144.4
15°	8976.5	8907.4	8684.5	8113.8	7322.9	6590.3	6099.3	5778.2	5589.7	5526.0	5523.4
17.5°	9202.1	9080.0	8676.5	7774.1	6746.9	5934.8	5441.1	5242.0	5210.2	5239.4	5247.3
20°	9430.3	9233.9	8588.9	7304.3	6062.2	5281.8	5027.0	5109.3	5228.7	5308.4	5326.9
22.5°	9666.5	9361.3	8389.9	6699.2	5340.2	4841.2	4947.4	5127.9	5276.5	5382.7	5393.3
25°	9932.0	9480.7	8092.6	5958.6	4761.6	4719.1	4928.8	5119.9	5279.2	5401.3	5422.5
27.5°	10083.2	9483.4	7675.9	5196.9	4496.2	4671.4	4883.7	5064.2	5223.4	5356.1	5380.0
30°	10231.9	9411.7	7015.0	4578.5	4419.2	4615.6	4806.7	4973.9	5125.2	5255.3	5284.5
32.5°	10441.6	9345.4	6253.3	4222.8	4374.1	4562.5	4719.1	4867.8	4984.6	5043.0	5058.9
35°	10701.7	9260.5	5443.7	4068.9	4344.9	4520.1	4658.1	4737.7	4586.4	4554.6	4589.1
37.5°	11065.3	9180.8	4636.9	4002.5	4326.3	4504.2	4626.2	4421.9	4236.1	4161.8	4188.3
40°	11458.1	9135.7	4090.1	3949.4	4334.3	4520.1	4493.5	4191.0	3922.9	3766.3	3761.0
42.5°	11792.5	9066.7	3739.7	3914.9	4355.5	4581.1	4313.1	3986.6	3588.5	3495.6	3498.2
45°	12018.1	8891.5	3554.0	3877.8	4374.1	4594.4	4228.1	3705.2	3421.2	3362.9	3360.2
47.5°	12111.0	8573.0	3434.5	3819.4	4371.4	4485.6	4055.6	3588.5	3304.5	3288.5	3299.2
50°	12050.0	8050.1	3312.4	3705.2	4307.7	4371.4	3856.5	3484.9	3224.8	3312.4	3376.1
52.5°	11824.4	7373.3	3166.4	3548.6	4193.6	4241.4	3755.7	3421.2	3166.4	3283.2	3333.7
55°	11766.0	6823.9	2980.6	3344.3	4023.7	4010.5	3649.5	3389.4	3126.6	3081.5	3089.5
57.5°	11689.0	6287.8	2672.8	2978.0	3593.8	3615.0	3548.6	3352.2	3023.1	3009.8	3023.1
60°	10154.9	4820.0	2383.5	2569.3	2951.5	3065.6	3434.5	3283.2	2855.9	2800.2	2797.5
62.5°	6632.8	2919.6	2120.7	2240.1	2404.7	2537.4	3131.9	3084.2	2672.8	2638.3	2662.1
65°	3567.2	2080.9	1929.6	2001.3	2091.5	2192.4	2595.8	2747.1	2415.3	2293.2	2295.9
67.5°	1823.4	1770.3	1786.3	1836.7	1905.7	1956.1	2094.2	2226.9	2059.6	1956.1	1953.5
70°	1560.7	1603.1	1627.0	1656.2	1701.3	1693.4	1706.6	1730.5	1717.3	1666.8	1664.2
72.5°	1329.7	1396.1	1401.4	1406.7	1422.6	1385.5	1361.6	1321.8	1324.4	1332.4	1335.1
75°	1011.2	1074.9	1090.9	1082.9	1098.8	1051.1	1019.2	979.4	931.6	923.7	929.0
77.5°	658.2	708.7	732.6	727.2	735.2	698.1	682.1	639.7	583.9	562.7	562.7
80°	398.1	427.3	445.9	451.2	459.2	432.6	406.1	368.9	345.0	321.2	321.2
82.5°	241.5	260.1	273.4	273.4	281.3	252.1	230.9	204.4	193.8	172.5	172.5
85°	122.1	135.4	140.7	138.0	132.7	108.8	100.9	87.6	82.3	71.7	71.7
87.5°	29.2	37.2	37.2	26.5	26.5	13.3	8.0	2.7	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)