

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: P643252

Luminaire Tested: GWS-SA6E-750-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643252  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-750-U-RW-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

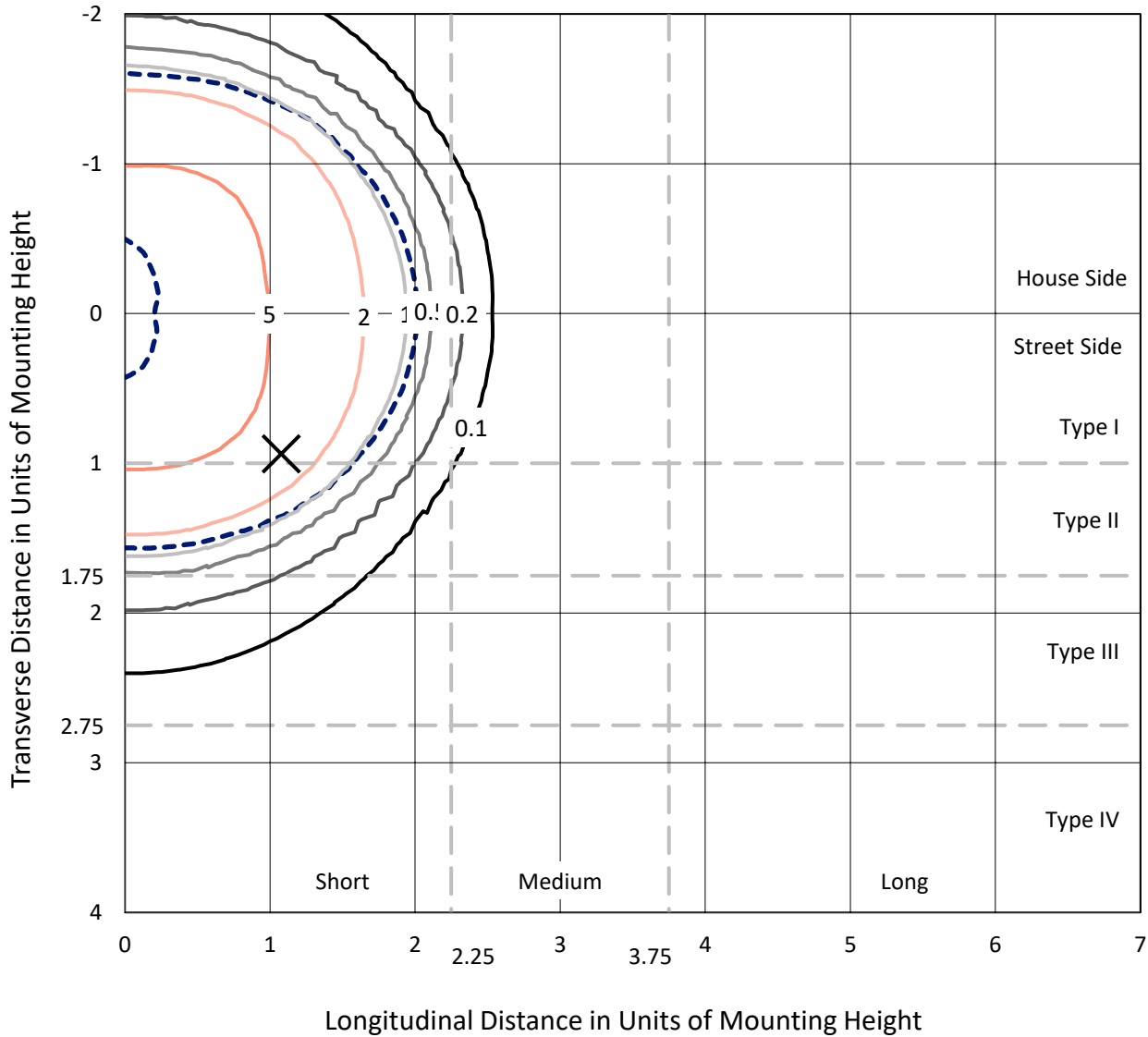
Lumens per Lamp: N/A  
Luminaire Lumens: 40365.9 lumens  
Efficiency: N/A  
Efficacy: 124.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

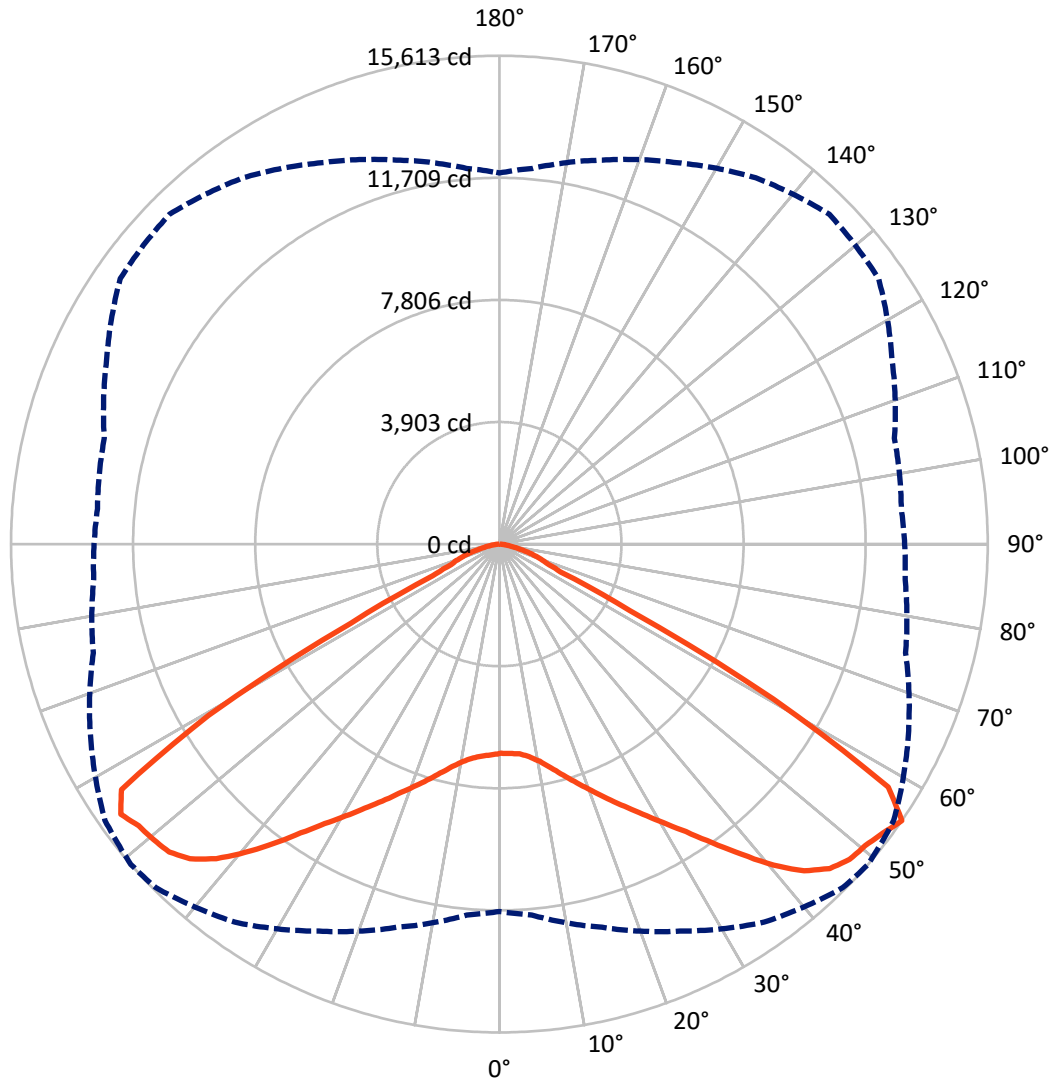
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 fc  
 Type V - Short - N/A

REPORT NUMBER: P643252  
CATALOG NUMBER: GWS-SA6E-750-U-RW-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19984.9	0.0	19984.9
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	20381.0	0.0	20381.0
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	40365.9	0.0	40365.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	652.3	1.6
10°-20°	2151.6	5.3
20°-30°	4098.1	10.2
30°-40°	6947.2	17.2
40°-50°	10455.1	25.9
50°-60°	11444.1	28.4
60°-70°	3618.7	9.0
70°-80°	868.5	2.2
80°-90°	130.3	0.3
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°	40365.9	100.0
0°-180°	40365.9	100.0

**Coefficient of Utilization**



REPORT NUMBER: P643252

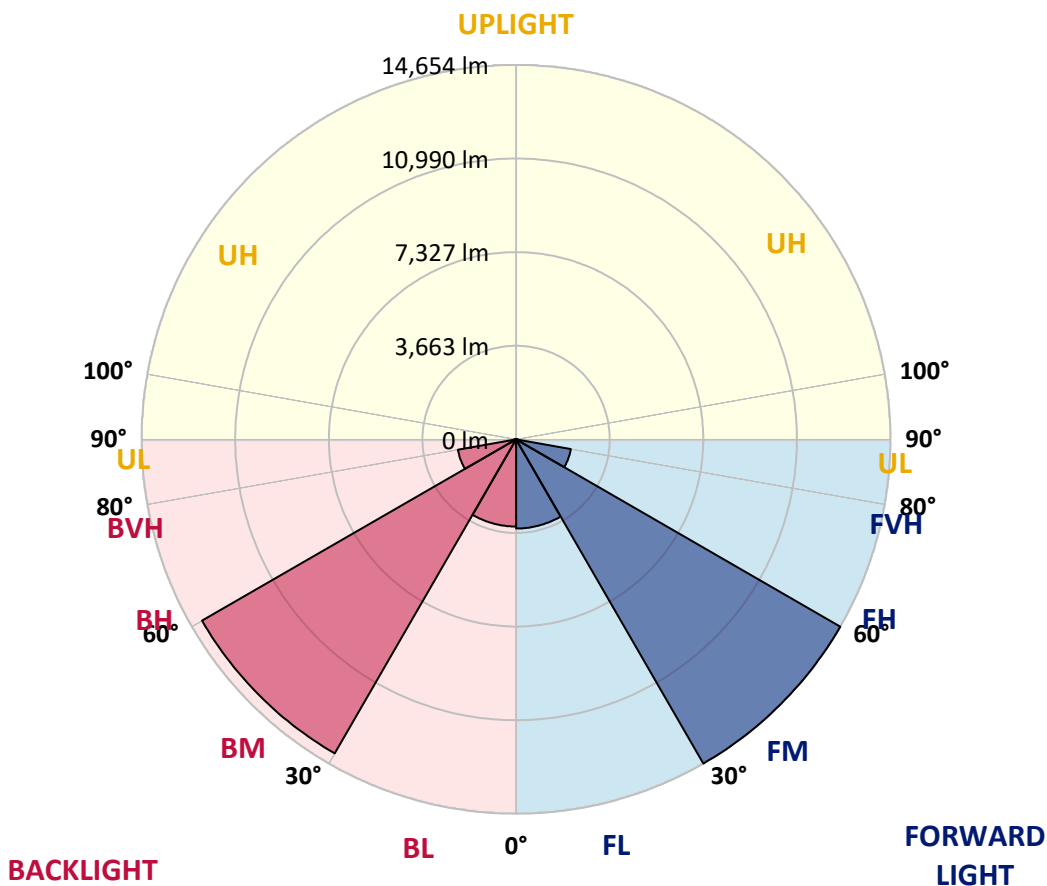
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3490.0	8.6			
FM (30°-60°)	14653.9	36.3			
FH (60°-80°)	2176.7	5.4			G2/5000
FVH (80°-90°)	60.3	0.1			G1/100
BL (0°-30°)	3412.0	8.5	B4/5000		
BM (30°-60°)	14192.4	35.2	B5		
BH (60°-80°)	2310.5	5.7	B3/2500		G2/5000
BVH (80°-90°)	70.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	6686.9	6686.9	6686.9	6686.9	6686.9	6686.9	6686.9	6686.9	6686.9	6686.9	6686.9
2.5°	6588.4	6594.9	6608.1	6631.1	6654.0	6686.9	6700.0	6716.4	6713.1	6732.8	6732.8
5°	6555.5	6565.4	6585.1	6617.9	6657.3	6719.7	6736.1	6775.5	6814.9	6864.1	6880.5
7.5°	6594.9	6608.1	6631.1	6683.6	6742.7	6824.7	6857.6	6923.2	6998.7	7087.3	7123.5
10°	6670.4	6686.9	6726.2	6811.6	6906.8	7031.5	7061.1	7143.2	7264.6	7386.1	7458.3
12.5°	6755.8	6782.1	6854.3	6988.9	7130.0	7294.2	7340.1	7441.9	7573.2	7730.8	7829.2
15°	6854.3	6877.3	6988.9	7179.3	7399.2	7615.9	7668.4	7766.9	7914.6	8068.9	8206.7
17.5°	7061.1	7100.5	7231.8	7451.7	7707.8	7963.8	8022.9	8134.5	8252.7	8374.2	8505.5
20°	7343.4	7376.2	7543.6	7816.1	8118.1	8351.2	8410.3	8508.8	8564.6	8626.9	8738.5
22.5°	7625.7	7671.7	7862.1	8183.8	8538.3	8791.1	8837.0	8928.9	8889.5	8869.9	8942.1
25°	7977.0	8039.3	8226.4	8577.7	8938.8	9250.6	9286.8	9365.5	9299.9	9198.1	9194.8
27.5°	8413.6	8469.4	8663.0	9024.1	9382.0	9706.9	9775.9	9880.9	9736.5	9611.7	9523.1
30°	8932.2	8968.3	9181.7	9565.8	9933.4	10242.0	10330.7	10435.7	10327.4	10120.6	10031.9
32.5°	9536.2	9585.5	9831.7	10235.5	10563.7	10872.3	10960.9	11092.2	10974.1	10741.0	10629.4
35°	10261.7	10311.0	10570.3	11010.2	11345.0	11663.4	11725.8	11834.1	11686.4	11417.2	11328.6
37.5°	11049.6	11111.9	11440.2	11857.1	12208.4	12579.3	12582.6	12615.4	12405.3	12070.5	11972.0
40°	11935.9	12018.0	12346.2	12779.5	13203.0	13505.0	13501.7	13409.8	13055.3	12536.6	12385.6
42.5°	12812.4	12878.0	13209.6	13656.0	14079.5	14365.1	14279.7	14056.5	13544.4	12838.6	12638.4
45°	13445.9	13495.2	13843.1	14345.4	14775.4	14952.7	14798.4	14529.2	13836.6	13029.0	12733.6
47.5°	13744.7	13810.3	14161.6	14660.5	15146.4	15248.1	15064.3	14811.5	14007.3	13206.3	12809.1
50°	13583.8	13669.2	14066.4	14529.2	15077.4	15287.5	15156.2	14903.4	14187.8	13380.3	12943.7
52.5°	13166.9	13249.0	13751.2	14312.6	14933.0	15349.9	15346.6	15139.8	14394.6	13429.5	12950.2
55°	11742.2	11903.1	12684.3	13652.7	14755.7	15533.7	15612.5	15392.6	14427.5	13442.6	13019.2
57.5°	7642.1	7924.4	8666.3	9926.9	12139.4	14128.7	14660.5	14713.1	14191.1	13386.8	13032.3
60°	3190.8	3417.3	4004.9	4842.0	6670.4	9037.3	10068.0	11102.1	12349.5	12802.5	12910.9
62.5°	1982.7	2002.4	2061.5	2251.9	2862.5	4018.0	4681.1	5649.5	7504.2	9083.2	9812.0
65°	1789.1	1798.9	1812.0	1798.9	1828.5	1969.6	2146.9	2485.0	3240.0	4024.6	4956.9
67.5°	1575.7	1588.8	1598.7	1588.8	1598.7	1605.2	1624.9	1654.5	1792.4	1904.0	1989.3
70°	1273.7	1293.4	1309.8	1303.2	1342.6	1342.6	1362.3	1385.3	1454.2	1536.3	1595.4
72.5°	971.7	955.3	975.0	981.5	1017.6	1037.3	1066.9	1093.1	1171.9	1221.2	1296.7
75°	630.3	613.9	643.4	659.8	709.1	735.3	761.6	787.8	843.7	876.5	948.7
77.5°	341.4	338.1	367.7	390.6	443.2	476.0	495.7	515.4	561.3	571.2	617.1
80°	197.0	197.0	216.7	233.1	265.9	302.0	321.7	338.1	370.9	380.8	400.5
82.5°	108.3	108.3	118.2	128.0	154.3	174.0	190.4	203.5	233.1	242.9	252.8
85°	52.5	49.2	55.8	62.4	72.2	82.1	91.9	98.5	121.5	128.0	141.2
87.5°	6.6	6.6	6.6	9.8	13.1	19.7	23.0	23.0	36.1	42.7	49.2
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°	6686.9	6686.9	6686.9	6686.9	6686.9	6686.9	6686.9	6686.9	6686.9	6686.9	6686.9
2.5°	6752.5	6709.8	6736.1	6745.9	6745.9	6736.1	6693.4	6680.3	6660.6	6631.1	6631.1
5°	6903.5	6870.7	6877.3	6860.8	6821.4	6772.2	6693.4	6654.0	6621.2	6585.1	6581.8
7.5°	7162.8	7120.2	7113.6	7051.2	6946.2	6841.1	6723.0	6650.7	6601.5	6555.5	6552.3
10°	7501.0	7461.6	7412.3	7287.6	7133.3	6979.0	6818.2	6719.7	6647.5	6581.8	6578.5
12.5°	7878.5	7832.5	7740.6	7556.8	7363.1	7212.1	7028.3	6877.3	6768.9	6680.3	6663.9
15°	8288.8	8223.2	8065.6	7848.9	7658.5	7497.7	7300.7	7084.1	6919.9	6778.8	6762.4
17.5°	8604.0	8518.6	8347.9	8144.4	7986.8	7826.0	7569.9	7297.4	7061.1	6883.8	6857.6
20°	8820.6	8751.7	8558.0	8407.0	8315.1	8173.9	7875.2	7566.6	7300.7	7077.5	7064.4
22.5°	9020.9	8938.8	8748.4	8659.8	8659.8	8564.6	8279.0	7914.6	7602.7	7343.4	7310.6
25°	9247.4	9158.7	9014.3	9004.4	9050.4	9007.7	8663.0	8272.4	7908.0	7615.9	7563.3
27.5°	9562.5	9464.0	9378.7	9437.8	9503.4	9457.5	9073.4	8620.4	8236.3	7940.8	7894.9
30°	10064.8	9943.3	9864.5	9936.7	10064.8	9930.2	9513.3	9034.0	8646.6	8321.6	8298.7
32.5°	10649.1	10511.2	10429.1	10544.0	10658.9	10448.8	10035.2	9575.6	9168.6	8827.2	8787.8
35°	11351.6	11177.6	11056.1	11210.4	11328.6	11121.8	10711.4	10274.8	9821.8	9467.3	9414.8
37.5°	11975.3	11765.2	11683.1	11899.8	12057.4	11922.8	11476.3	11066.0	10570.3	10182.9	10160.0
40°	12428.3	12221.5	12162.4	12520.2	12796.0	12763.1	12362.6	11893.2	11427.1	10980.6	10938.0
42.5°	12625.3	12480.8	12493.9	12976.5	13403.3	13613.3	13255.5	12753.3	12303.6	11840.7	11811.1
45°	12667.9	12579.3	12684.3	13288.4	13849.7	14279.7	13974.4	13554.3	13045.4	12599.0	12585.9
47.5°	12713.9	12664.6	12825.5	13465.6	14132.0	14631.0	14460.3	14027.0	13511.6	13075.0	13042.2
50°	12822.2	12802.5	12983.1	13590.4	14266.6	14726.2	14532.5	14102.5	13574.0	13143.9	13065.1
52.5°	12855.0	12822.2	13081.6	13784.0	14489.8	14722.9	14306.0	13744.7	13212.9	12733.6	12651.5
55°	12956.8	12897.7	13075.0	13856.3	14798.4	14913.3	14292.9	13452.5	12710.6	12057.4	11863.7
57.5°	12983.1	12917.4	13032.3	13738.1	14463.6	14361.8	12562.9	10855.9	9457.5	8732.0	8814.0
60°	12841.9	12861.6	12664.6	12585.9	11601.1	10242.0	7691.4	6148.5	4828.8	4270.8	4392.3
62.5°	9775.9	9857.9	9185.0	7986.8	6141.9	4868.2	3220.3	2501.4	2117.3	2018.9	2035.3
65°	4933.9	5045.5	4346.3	3594.6	2672.1	2160.0	1867.9	1808.8	1789.1	1766.1	1766.1
67.5°	1953.2	1986.0	1959.8	1835.0	1707.0	1661.0	1647.9	1641.3	1618.4	1605.2	1608.5
70°	1569.1	1595.4	1556.0	1477.2	1424.7	1421.4	1414.8	1401.7	1385.3	1385.3	1395.1
72.5°	1280.3	1306.5	1250.7	1201.5	1162.1	1132.5	1116.1	1106.3	1083.3	1083.3	1093.1
75°	942.1	958.5	912.6	906.0	863.3	833.8	807.5	794.4	764.9	751.7	761.6
77.5°	627.0	623.7	600.7	600.7	584.3	548.2	518.7	489.1	449.7	423.5	430.0
80°	407.1	407.1	397.2	397.2	380.8	351.2	315.1	285.6	262.6	242.9	242.9
82.5°	259.3	256.1	252.8	249.5	242.9	213.4	187.1	167.4	151.0	137.9	141.2
85°	144.4	144.4	137.9	137.9	124.7	108.3	95.2	82.1	72.2	68.9	68.9
87.5°	49.2	49.2	46.0	46.0	39.4	29.5	23.0	19.7	16.4	13.1	16.4
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)