

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: P643257

Luminaire Tested: GWS-SA6E-750-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643257  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-750-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

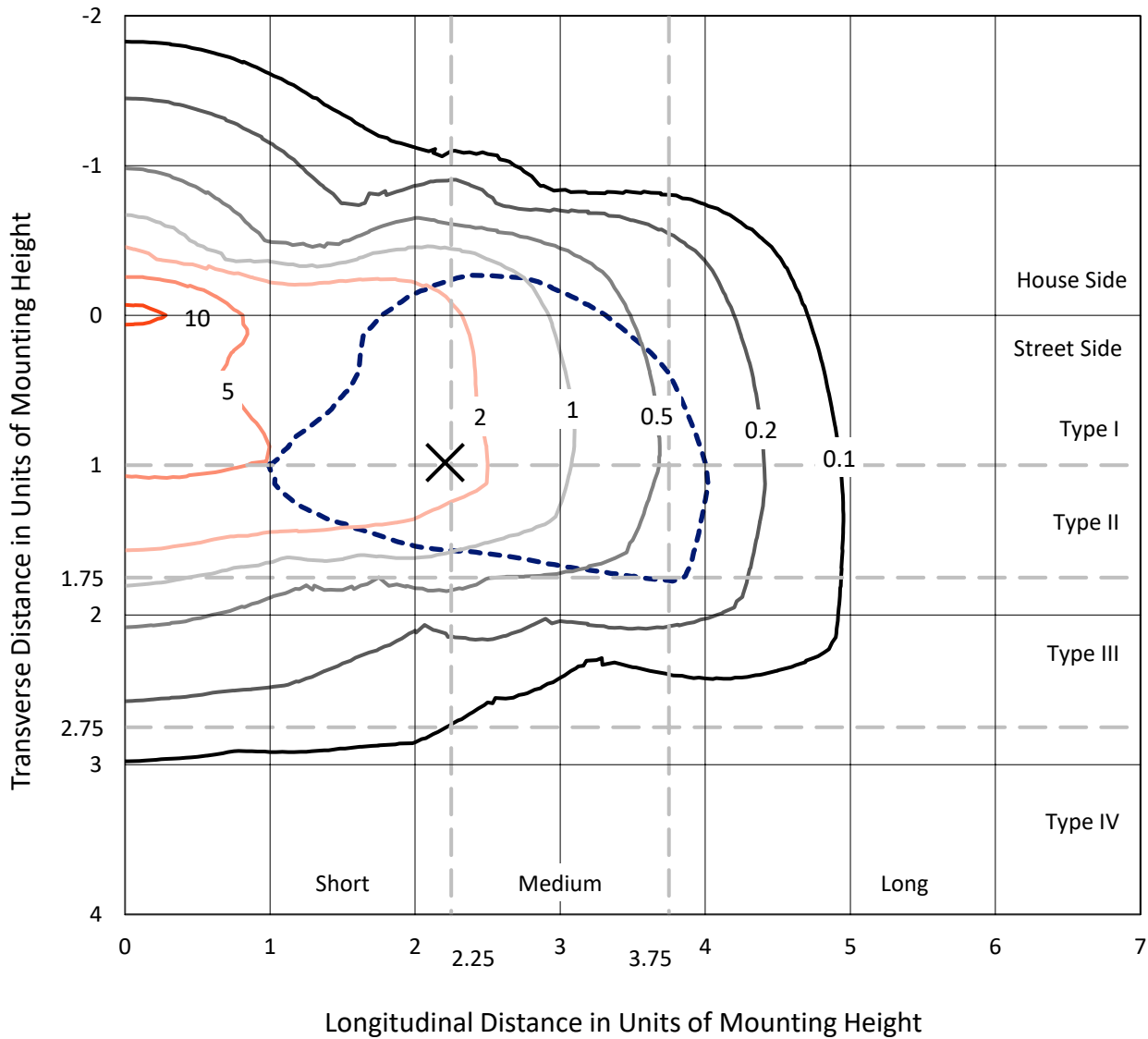
Lumens per Lamp: N/A  
Luminaire Lumens: 44997.6 lumens  
Efficiency: N/A  
Efficacy: 139.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

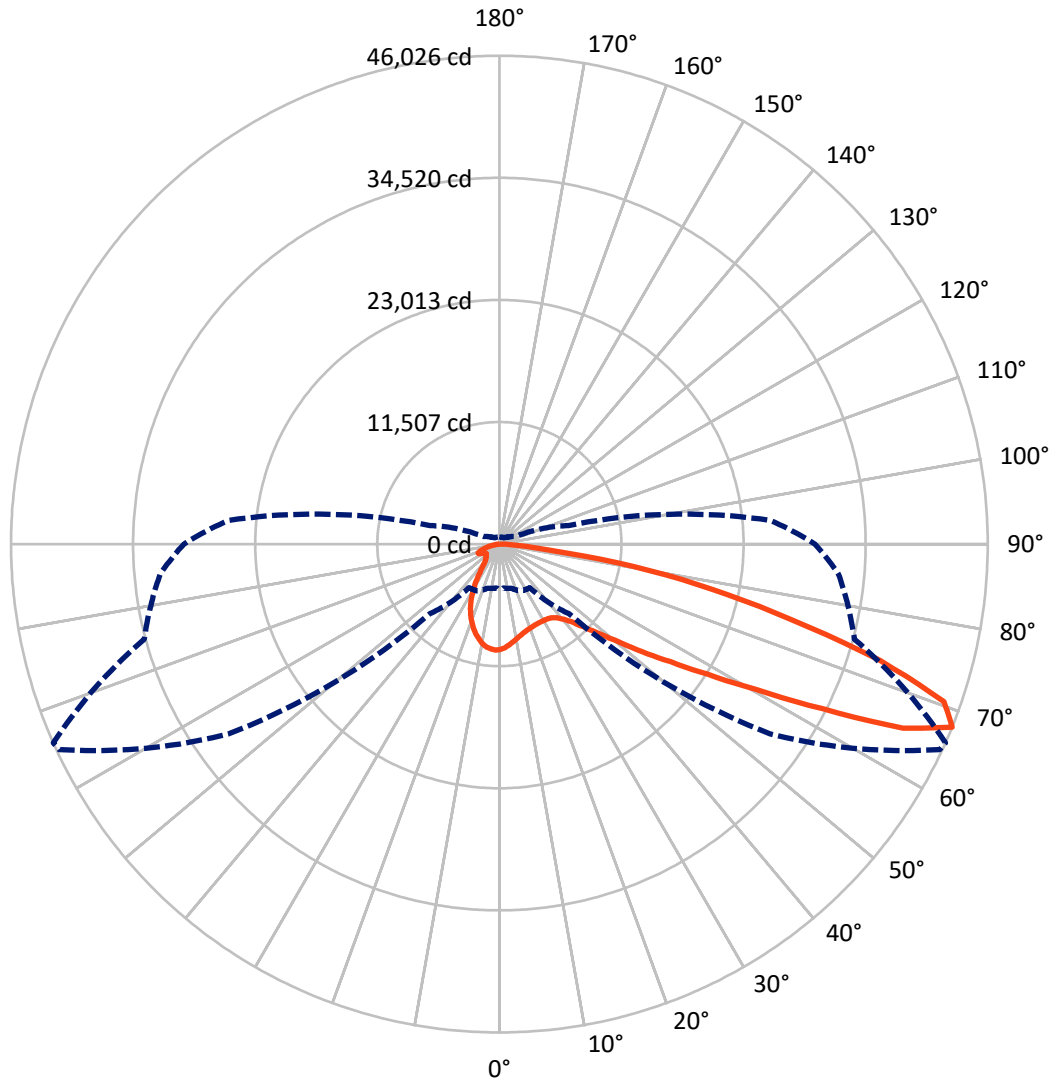
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9131.1	0.0	9131.1
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	35866.5	0.0	35866.5
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	44997.6	0.0	44997.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	872.6	1.9
10°-20°	2144.6	4.8
20°-30°	2947.8	6.6
30°-40°	4030.2	9.0
40°-50°	6106.8	13.6
50°-60°	9493.2	21.1
60°-70°	11557.8	25.7
70°-80°	7040.4	15.6
80°-90°	804.2	1.8
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°	44997.6	100.0
0°-180°	44997.6	100.0

**Coefficient of Utilization**



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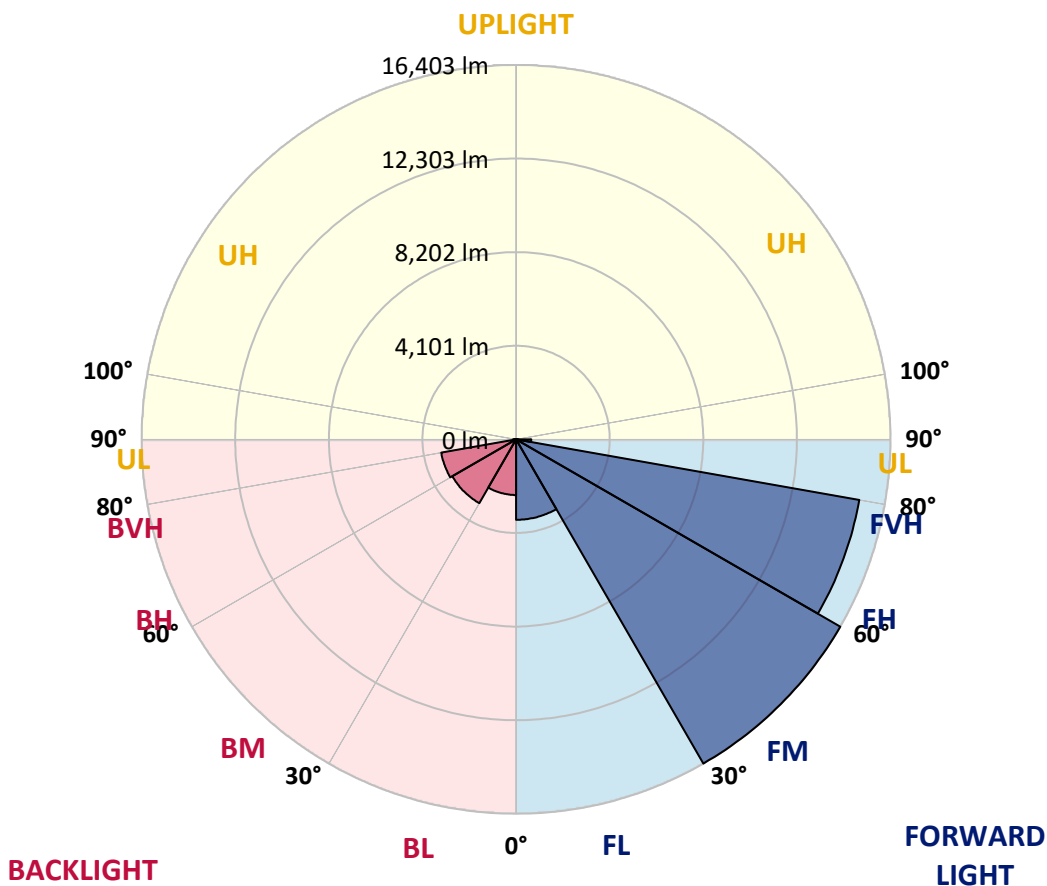
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3525.8	7.8			
FM (30°-60°)	16403.3	36.5			
FH (60°-80°)	15268.8	33.9			G5
FVH (80°-90°)	668.6	1.5			G4/750
BL (0°-30°)	2439.3	5.4	B3/2500		
BM (30°-60°)	3226.8	7.2	B3/5000		
BH (60°-80°)	3329.3	7.4	B4/5000		G4/5000
BVH (80°-90°)	135.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9943.2	9943.2	9943.2	9943.2	9943.2	9943.2	9943.2	9943.2	9943.2	9943.2	9943.2
2.5°	9312.9	9345.7	9326.1	9450.8	9457.4	9614.9	9703.6	9779.1	9785.6	9884.1	9949.8
5°	8676.1	8695.8	8695.8	8814.0	8892.7	9102.8	9306.4	9523.0	9539.4	9775.8	9956.3
7.5°	8160.7	8180.4	8167.3	8324.8	8426.6	8659.7	8919.0	9250.5	9283.4	9664.2	9979.3
10°	7756.9	7750.4	7783.2	7927.6	8058.9	8338.0	8626.8	9004.3	9053.6	9536.1	10005.6
12.5°	7481.2	7487.8	7507.5	7658.5	7799.6	8075.4	8374.1	8784.4	8836.9	9388.4	9992.4
15°	7349.9	7336.8	7353.2	7491.0	7625.6	7868.5	8177.1	8600.6	8653.1	9257.1	9995.7
17.5°	7320.3	7310.5	7307.2	7405.7	7507.5	7734.0	8029.4	8459.4	8515.2	9171.8	10015.4
20°	7412.3	7399.1	7363.0	7405.7	7448.4	7638.8	7924.4	8357.7	8420.0	9116.0	10054.8
22.5°	7665.0	7642.0	7586.2	7533.7	7477.9	7592.8	7858.7	8282.2	8344.5	9079.9	10094.2
25°	8049.1	8029.4	7970.3	7852.1	7648.6	7628.9	7845.6	8249.3	8311.7	9053.6	10110.6
27.5°	8577.6	8548.1	8489.0	8318.3	7986.7	7763.5	7894.8	8246.1	8305.1	9024.0	10094.2
30°	9204.6	9184.9	9152.1	8945.3	8502.1	8049.1	8006.4	8272.3	8318.3	9007.6	10061.4
32.5°	9841.4	9821.7	9848.0	9749.5	9204.6	8521.8	8249.3	8344.5	8377.4	9004.3	10031.8
35°	10402.8	10425.7	10616.1	10632.6	10097.5	9161.9	8633.4	8512.0	8518.5	9070.0	10045.0
37.5°	10990.4	11079.0	11328.5	11541.8	11095.4	10008.8	9204.6	8827.1	8820.5	9237.4	10127.0
40°	11768.4	11807.7	12126.2	12526.6	12247.6	11170.9	10015.4	9342.5	9296.5	9578.8	10347.0
42.5°	12526.6	12621.8	13130.7	13590.2	13498.3	12480.7	11036.3	10113.9	10031.8	10182.8	10800.0
45°	13491.8	13583.7	14154.9	14745.7	14913.1	13961.2	12342.8	11210.3	11128.2	11092.1	11630.5
47.5°	14456.9	14552.1	15064.1	15917.6	16505.2	15812.6	14043.2	12658.0	12523.4	12382.2	12884.5
50°	15106.8	15218.4	15707.6	16731.7	18110.5	18123.6	16058.8	14555.3	14384.6	14161.4	14650.5
52.5°	15083.8	15156.1	15622.2	16804.0	19266.0	20779.3	18757.1	16971.4	16833.5	16347.7	16774.4
55°	13898.8	14007.1	14476.6	15953.8	19390.7	23297.1	22722.6	19820.7	19574.5	18704.6	19174.0
57.5°	11518.9	11610.8	12083.5	13905.4	18284.4	24587.2	27758.2	23451.4	23113.2	21271.7	21813.3
60°	8695.8	8584.2	8807.4	10402.8	15638.6	24620.0	32202.9	28375.4	27810.7	24016.0	24469.0
62.5°	6525.9	6414.3	6463.6	6913.3	10603.0	22630.7	34737.2	35111.4	34179.1	27114.8	27026.2
65°	5157.1	5094.7	5235.9	5544.4	6181.3	17234.0	34756.9	42395.6	41808.0	30706.0	29649.0
67.5°	4201.8	4162.4	4306.9	4878.0	5012.6	9260.4	31165.6	45796.5	46026.2	34638.7	32081.5
70°	3384.4	3325.3	3551.8	4303.6	4661.4	5603.5	22325.4	44063.2	44434.2	36982.5	31395.4
72.5°	2337.3	2340.5	2455.4	3486.2	4500.5	4838.6	12628.4	36690.3	37494.6	34858.6	27600.6
75°	1575.7	1588.8	1621.6	2301.1	4146.0	4694.2	6729.5	27777.9	28345.8	28812.0	22814.5
77.5°	952.0	958.5	1034.0	1391.8	2859.2	4382.4	4559.6	20135.9	20582.3	18993.5	14141.7
80°	551.5	574.5	643.4	932.3	1930.2	3292.5	3528.9	12346.1	12851.6	8443.0	4494.0
82.5°	242.9	259.3	351.2	541.6	1126.0	2800.1	2754.2	4878.0	4805.8	2353.7	1559.3
85°	42.7	52.5	75.5	170.7	413.6	1477.2	2137.0	2153.4	2025.4	892.9	646.7
87.5°	0.0	0.0	0.0	0.0	0.0	9.8	321.7	577.7	574.5	252.8	223.2
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°	9943.2	9943.2	9943.2	9943.2	9943.2	9943.2	9943.2	9943.2	9943.2	9943.2	9943.2
2.5°	9992.4	9903.8	9982.6	9992.4	9976.0	9962.9	9864.4	9779.1	9769.2	9677.3	9677.3
5°	10028.5	9946.5	9985.9	9910.4	9792.2	9670.7	9460.6	9316.2	9250.5	9132.4	9132.4
7.5°	10077.8	9992.4	9946.5	9759.4	9483.6	9217.7	8879.6	8597.3	8482.4	8315.0	8308.4
10°	10123.7	10015.4	9857.8	9493.5	9053.6	8630.1	8137.7	7737.2	7464.8	7264.5	7264.5
12.5°	10120.5	9979.3	9667.4	9129.1	8521.8	7907.9	7251.4	6647.4	6286.3	5974.5	5954.8
15°	10113.9	9920.2	9424.5	8705.6	7901.4	7051.2	6158.3	5370.4	4835.4	4530.1	4503.8
17.5°	10107.3	9844.7	9152.1	8223.1	7146.4	5987.6	4809.1	3955.6	3509.2	3322.1	3328.6
20°	10107.3	9759.4	8859.9	7668.3	6276.5	4713.9	3528.9	2908.4	2796.8	2806.7	2816.5
22.5°	10077.8	9654.3	8534.9	7064.3	5308.1	3466.5	2603.2	2393.1	2452.2	2544.1	2557.2
25°	10008.8	9480.3	8157.4	6394.6	4155.9	2524.4	2123.9	2084.5	2192.8	2307.7	2340.5
27.5°	9900.5	9280.1	7734.0	5610.1	3059.4	2028.7	1867.8	1864.6	1949.9	2035.3	2064.8
30°	9785.6	9056.9	7287.5	4736.9	2215.8	1766.1	1703.7	1703.7	1746.4	1798.9	1792.3
32.5°	9651.0	8830.4	6808.2	3827.6	1805.5	1618.4	1598.7	1588.8	1595.4	1615.1	1615.1
35°	9536.1	8630.1	6315.8	2865.8	1618.4	1536.3	1516.6	1493.6	1483.8	1470.6	1477.2
37.5°	9493.5	8472.6	5807.0	2160.0	1526.4	1477.2	1444.4	1411.5	1388.6	1382.0	1378.7
40°	9562.4	8406.9	5298.2	1779.2	1460.8	1414.8	1378.7	1336.0	1316.3	1316.3	1316.3
42.5°	9831.6	8456.1	4779.6	1608.5	1414.8	1362.3	1309.8	1270.4	1263.8	1270.4	1273.7
45°	10324.0	8646.5	4241.2	1523.2	1375.4	1309.8	1247.4	1217.9	1217.9	1224.4	1224.4
47.5°	11203.7	9145.5	3709.4	1470.6	1336.0	1267.1	1201.5	1171.9	1168.6	1175.2	1175.2
50°	12726.9	10045.0	3230.1	1434.5	1306.5	1234.3	1168.6	1129.2	1119.4	1116.1	1116.1
52.5°	14647.3	11604.2	2924.9	1408.3	1270.4	1198.2	1132.5	1080.0	1060.3	1050.5	1050.5
55°	16968.1	13682.1	2924.9	1388.6	1224.4	1155.5	1080.0	1027.5	997.9	984.8	984.8
57.5°	19597.5	16101.5	3430.4	1372.2	1188.3	1106.3	1024.2	971.7	938.8	919.1	919.1
60°	22272.9	18658.7	4681.1	1349.2	1155.5	1043.9	961.8	912.6	869.9	846.9	843.6
62.5°	25046.7	21475.2	6329.0	1362.3	1132.5	984.8	896.2	840.4	804.3	781.3	778.0
65°	27587.5	24157.1	7770.1	1464.1	1135.8	932.3	820.7	771.4	741.9	712.3	709.1
67.5°	29744.2	25637.6	6759.0	1670.9	1204.7	869.9	745.2	695.9	669.7	650.0	646.7
70°	28234.2	23379.1	3834.2	1798.9	1299.9	804.3	659.8	627.0	600.7	587.6	584.3
72.5°	24144.0	19794.5	2563.8	1588.8	1185.0	718.9	581.0	554.8	535.1	518.7	515.4
75°	19558.1	15697.7	1959.8	1303.2	922.4	584.3	499.0	479.3	459.6	443.2	439.9
77.5°	11571.4	9070.0	1444.4	1030.8	650.0	456.3	413.6	397.2	377.5	364.4	361.1
80°	3693.0	3151.4	915.9	709.1	430.0	351.2	318.4	305.3	285.6	269.2	265.9
82.5°	1408.3	1217.9	485.8	361.1	285.6	239.6	213.4	200.2	187.1	170.7	167.4
85°	623.7	584.3	269.2	193.7	154.3	118.2	105.0	98.5	82.1	68.9	65.7
87.5°	219.9	219.9	114.9	55.8	32.8	16.4	9.8	3.3	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)