

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: P641820

Luminaire Tested: GWS-SA6B-760-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641820  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6B-760-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (96) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

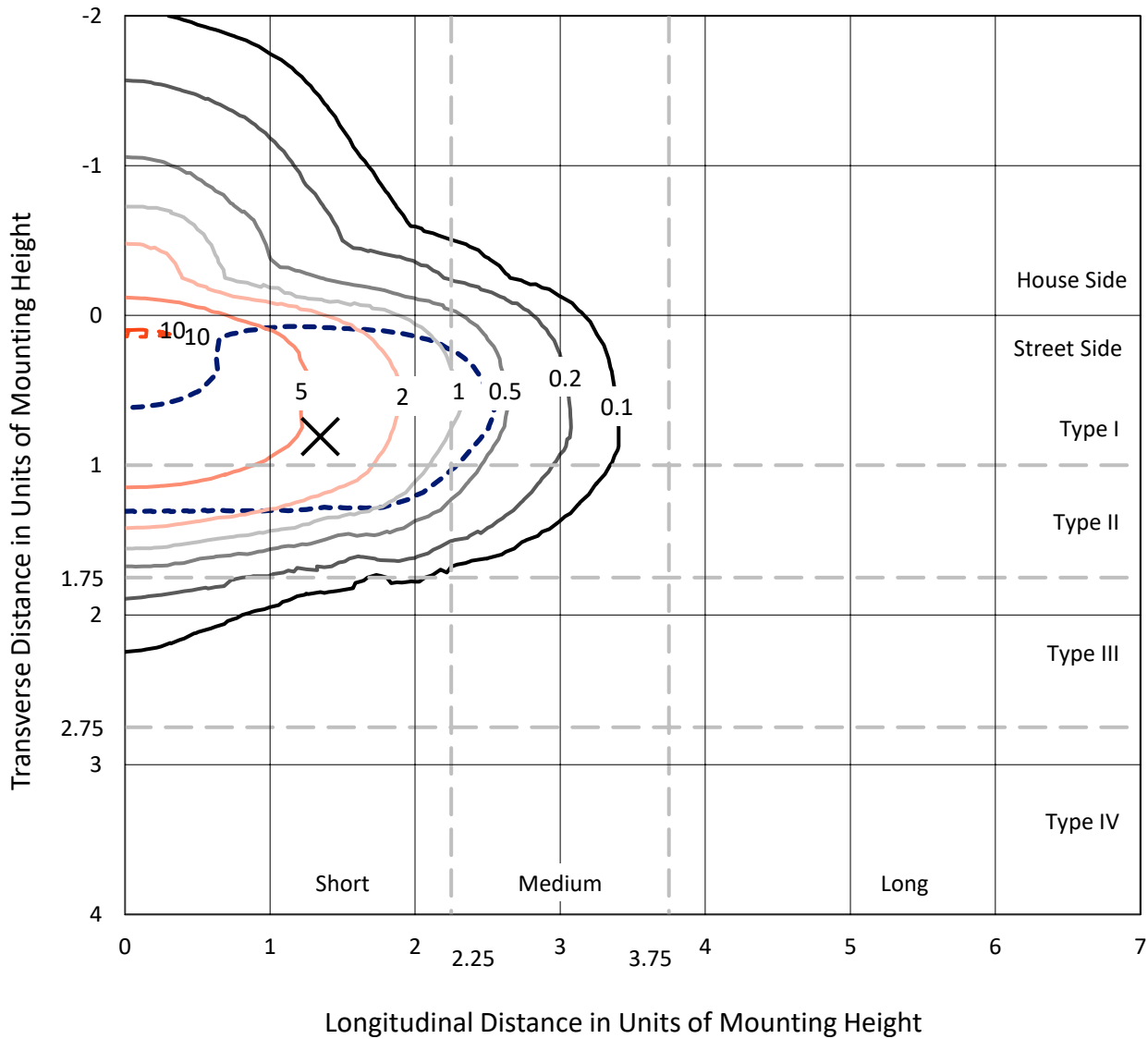
Lumens per Lamp: N/A  
Luminaire Lumens: 21752.2 lumens  
Efficiency: N/A  
Efficacy: 156.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

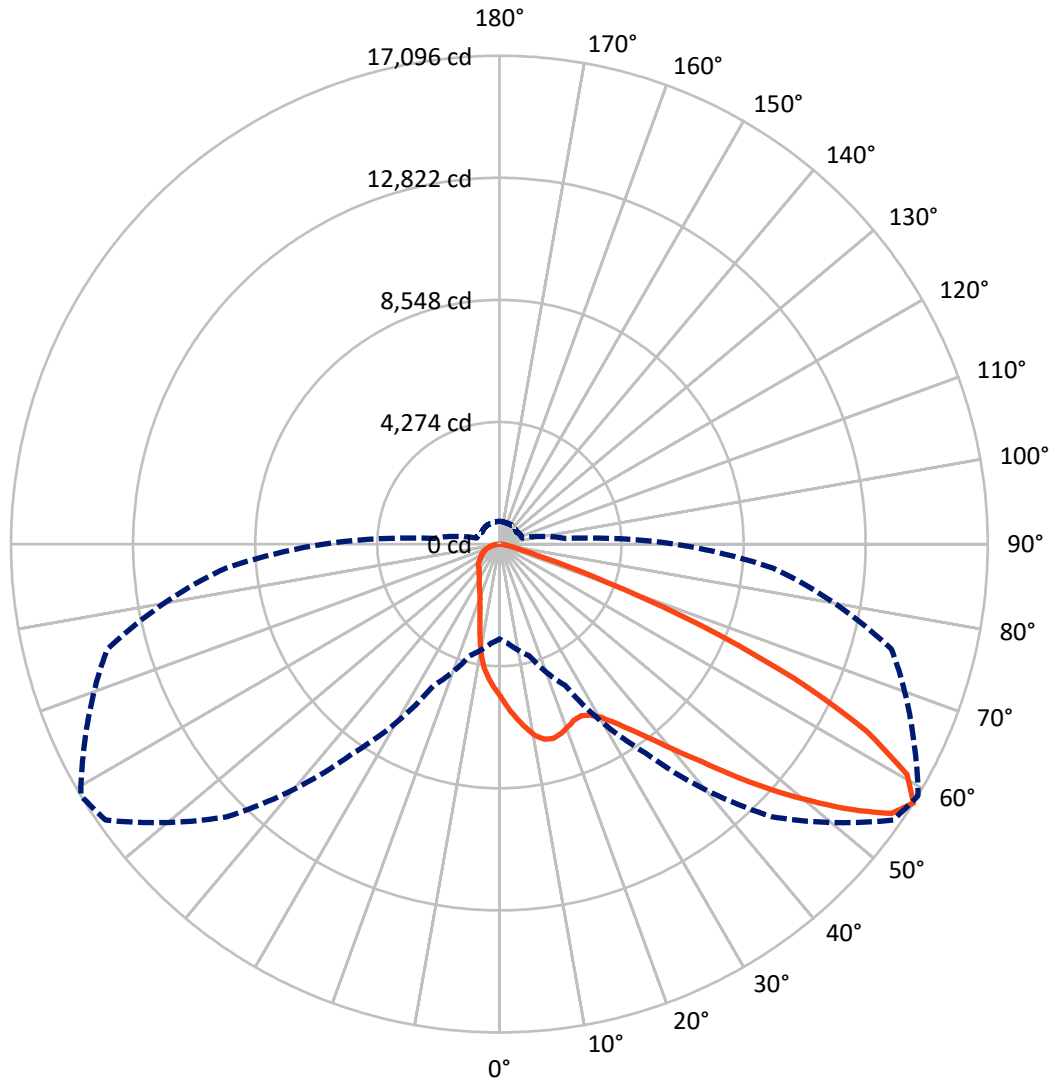
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3375.8	0.0	3375.8
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	18376.4	0.0	18376.4
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	21752.2	0.0	21752.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	495.8	2.3
10°-20°	1256.4	5.8
20°-30°	2036.6	9.4
30°-40°	3276.1	15.1
40°-50°	5087.5	23.4
50°-60°	5479.9	25.2
60°-70°	3180.3	14.6
70°-80°	830.2	3.8
80°-90°	109.4	0.5
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°	21752.2	100.0
0°-180°	21752.2	100.0

**Coefficient of Utilization**



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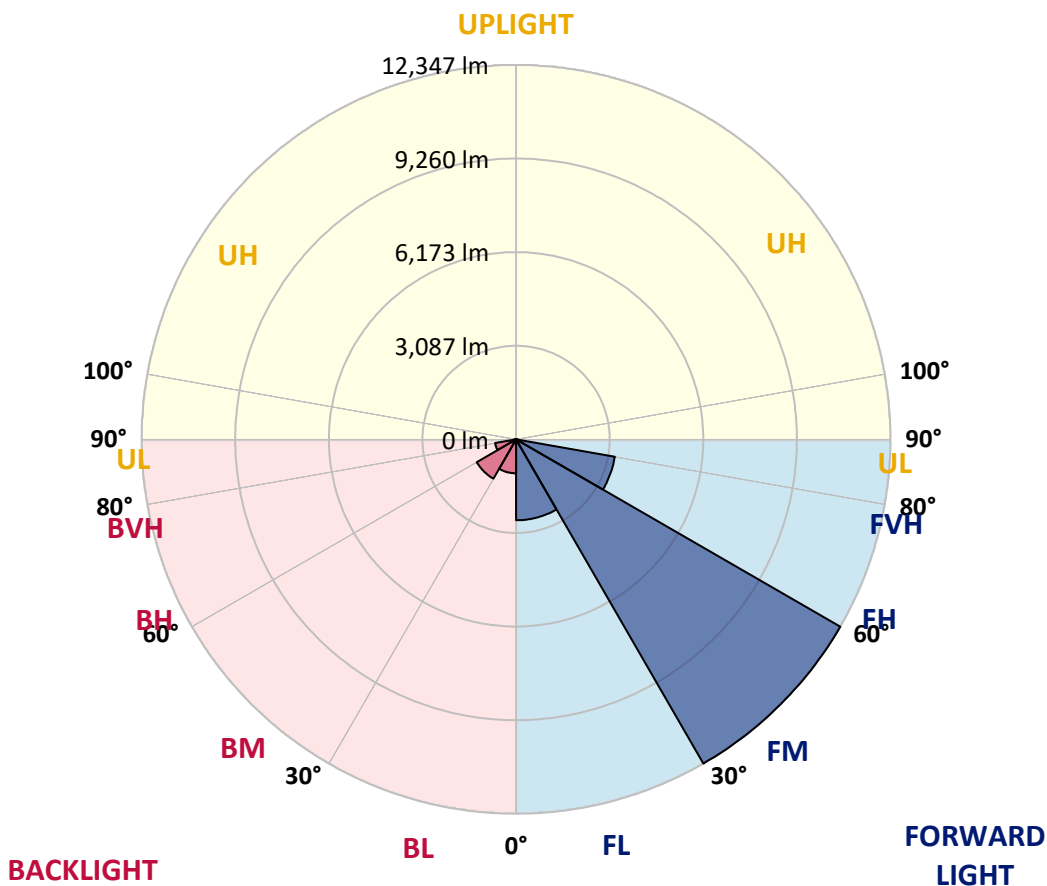
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2668.8	12.3			
FM (30°-60°)	12346.8	56.8			
FH (60°-80°)	3308.4	15.2			G2/5000
FVH (80°-90°)	52.4	0.2			G1/100
BL (0°-30°)	1120.0	5.1	B3/2500		
BM (30°-60°)	1496.7	6.9	B2/2500		
BH (60°-80°)	702.2	3.2	B2/1000		G2/1000
BVH (80°-90°)	57.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5339.7	5339.7	5339.7	5339.7	5339.7	5339.7	5339.7	5339.7	5339.7	5339.7	5339.7
2.5°	6056.4	6005.9	6041.1	5978.3	5952.3	5883.4	5794.5	5734.8	5642.9	5523.5	5419.4
5°	6658.2	6623.0	6630.6	6563.3	6503.5	6388.7	6206.5	6105.4	5949.2	5708.8	5485.2
7.5°	6639.8	6681.2	6704.1	6762.3	6779.2	6768.5	6604.6	6463.7	6292.2	5930.8	5593.9
10°	5952.3	6030.4	6100.8	6299.9	6541.8	6848.1	6886.4	6802.1	6629.1	6214.1	5724.1
12.5°	5203.4	5263.2	5325.9	5564.8	5935.4	6547.9	6962.9	7015.0	6946.1	6494.3	5871.1
15°	4835.9	4863.5	4923.2	5080.9	5376.5	6056.4	6829.7	7057.9	7181.9	6791.4	6036.5
17.5°	4820.6	4832.9	4862.0	4946.2	5151.4	5676.6	6589.3	6972.1	7367.2	7105.3	6229.4
20°	5137.6	5105.4	5087.1	5085.5	5186.6	5549.5	6356.5	6834.3	7454.5	7426.9	6436.2
22.5°	5577.1	5587.8	5548.0	5450.0	5437.7	5639.9	6240.1	6695.0	7480.5	7711.8	6627.6
25°	6200.3	6253.9	6136.0	5949.2	5857.3	5901.7	6312.1	6652.1	7477.5	7949.1	6747.0
27.5°	6927.7	6969.1	6849.6	6604.6	6414.7	6307.5	6526.5	6779.2	7503.5	8154.3	6819.0
30°	7756.2	7769.9	7606.1	7348.8	7071.7	6842.0	6883.3	7041.0	7636.7	8423.8	6903.2
32.5°	8768.4	8826.6	8578.5	8171.2	7783.7	7489.7	7362.6	7463.7	7924.6	8742.3	7033.4
35°	10053.1	10073.1	9757.6	9174.2	8626.0	8218.6	7952.2	8005.8	8362.6	9187.9	7229.4
37.5°	11264.4	11284.3	10949.0	10406.9	9622.8	9065.4	8679.5	8655.0	8923.0	9817.3	7549.4
40°	12033.2	12089.8	11939.7	11599.8	10851.0	10099.1	9575.4	9491.2	9658.1	10587.6	7995.0
42.5°	12446.6	12471.1	12468.0	12512.5	12066.8	11319.6	10586.0	10417.6	10529.4	11419.1	8445.3
45°	12449.7	12510.9	12674.8	13102.0	13121.9	12656.4	11863.2	11599.8	11497.2	12256.7	8915.4
47.5°	11892.3	11958.1	12408.3	13249.0	13869.2	13974.9	13393.0	12864.7	12432.8	12978.0	9301.3
50°	10204.7	10370.1	11227.7	12714.6	14016.2	15031.5	14852.3	14135.7	13264.3	13535.4	9543.2
52.5°	8739.3	8733.1	9261.5	11204.7	13402.2	15497.0	16264.2	15443.4	14086.7	13889.1	9604.5
55°	6399.4	6434.6	6975.2	8569.3	11763.6	15046.8	17040.6	16647.0	15030.0	14077.5	9580.0
57.5°	3318.4	3493.0	4047.3	5468.4	8938.3	13497.1	16833.9	17095.7	15988.6	14210.7	9612.1
60°	1676.8	1643.1	1842.2	2610.9	5178.9	10541.6	15559.8	16394.4	16161.6	14314.8	9632.0
62.5°	1119.4	1110.2	1055.1	1209.7	2116.3	6243.2	13264.3	14434.3	14959.5	14069.8	9377.8
65°	969.3	951.0	849.9	843.8	1027.5	2589.5	9722.4	11347.1	12363.9	12981.0	8769.9
67.5°	872.9	845.3	742.7	692.2	738.1	1137.8	5479.1	7610.7	9129.8	10978.1	7437.6
70°	779.4	765.7	663.1	589.6	585.0	693.7	2018.3	3927.8	5586.3	7489.7	5437.7
72.5°	698.3	673.8	586.5	516.1	480.8	491.6	875.9	1512.9	2891.1	4672.1	3252.5
75°	604.9	586.5	509.9	439.5	396.6	359.9	534.4	699.8	1318.5	2220.4	1535.9
77.5°	467.1	454.8	402.7	349.1	324.6	268.0	324.6	441.0	609.5	935.6	799.4
80°	271.0	278.7	300.1	272.6	238.9	191.4	211.3	254.2	366.0	506.9	453.3
82.5°	136.3	145.5	194.5	157.7	142.4	111.8	125.6	150.1	191.4	280.2	177.6
85°	10.7	10.7	35.2	39.8	49.0	39.8	50.5	61.3	87.3	111.8	59.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.6	7.7	13.8	26.0	16.8
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°	5339.7	5339.7	5339.7	5339.7	5339.7	5339.7	5339.7	5339.7	5339.7	5339.7	5339.7
2.5°	5348.9	5270.8	5177.4	5100.8	4982.9	4920.1	4840.5	4742.5	4702.7	4684.3	4673.6
5°	5359.6	5221.8	5022.7	4839.0	4635.3	4474.5	4295.4	4108.5	4001.4	3975.3	3956.9
7.5°	5399.5	5206.5	4889.5	4586.3	4208.1	3857.4	3515.9	3177.5	3004.5	2938.6	2932.5
10°	5454.6	5200.4	4754.8	4251.0	3612.4	3058.1	2658.4	2393.5	2281.7	2244.9	2232.7
12.5°	5523.5	5195.8	4577.1	3785.4	2924.8	2401.1	2173.0	2130.1	2145.4	2142.3	2142.3
15°	5610.8	5201.9	4362.7	3258.7	2365.9	2084.1	2088.7	2139.3	2186.7	2194.4	2194.4
17.5°	5705.7	5195.8	4051.9	2730.4	2030.5	2009.1	2079.5	2150.0	2192.9	2199.0	2199.0
20°	5808.3	5166.7	3659.9	2232.7	1883.5	1961.6	2038.2	2093.3	2119.4	2125.5	2125.5
22.5°	5869.6	5084.0	3234.2	1889.7	1790.1	1886.6	1937.1	1993.8	1996.8	1947.8	1946.3
25°	5860.4	4929.3	2748.7	1669.1	1690.6	1774.8	1839.1	1799.3	1750.3	1722.7	1718.1
27.5°	5802.2	4696.6	2254.1	1502.2	1572.7	1667.6	1647.7	1614.0	1601.8	1571.1	1568.1
30°	5728.7	4410.2	1810.0	1372.1	1450.2	1537.5	1506.8	1503.8	1491.5	1457.8	1457.8
32.5°	5658.2	4114.7	1474.7	1275.6	1372.1	1378.2	1421.1	1424.1	1418.0	1359.8	1353.7
35°	5638.3	3819.1	1248.0	1199.0	1295.5	1292.4	1353.7	1352.2	1246.5	1165.3	1163.8
37.5°	5698.1	3519.0	1113.3	1136.2	1189.8	1229.7	1278.7	1189.8	1154.6	1105.6	1102.6
40°	5825.2	3241.8	1044.4	1099.5	1122.5	1180.7	1104.1	1110.2	1101.0	1064.3	1059.7
42.5°	5993.6	3006.0	1006.1	1087.2	1084.2	1099.5	1015.3	1039.8	1053.6	1026.0	1021.4
45°	6155.9	2800.8	986.2	1041.3	1056.6	967.8	951.0	973.9	995.4	984.6	980.0
47.5°	6275.4	2623.2	975.5	978.5	1021.4	923.4	895.8	906.5	932.6	937.2	935.6
50°	6312.1	2471.6	963.2	926.5	917.3	879.0	857.5	854.5	885.1	906.5	909.6
52.5°	6241.7	2336.8	931.0	880.5	836.1	842.2	834.6	819.3	849.9	879.0	882.0
55°	6137.6	2260.2	880.5	836.1	784.0	808.5	811.6	797.8	817.7	837.6	837.6
57.5°	6145.2	2304.6	831.5	794.8	738.1	770.3	787.1	781.0	781.0	796.3	797.8
60°	6195.7	2369.0	799.4	742.7	692.2	725.8	764.1	758.0	744.2	764.1	764.1
62.5°	6050.3	2283.2	777.9	692.2	643.2	683.0	728.9	725.8	710.5	742.7	745.8
65°	5621.5	2053.5	753.4	629.4	594.2	640.1	679.9	690.6	676.8	719.7	727.4
67.5°	4711.9	1727.3	705.9	569.7	545.2	588.0	626.3	641.6	630.9	681.4	687.6
70°	3512.9	1398.1	630.9	503.8	485.4	523.7	558.9	565.1	566.6	626.3	632.4
72.5°	2240.3	1087.2	531.4	430.3	416.5	445.6	471.6	496.1	506.9	563.5	562.0
75°	1249.6	808.5	427.2	364.5	340.0	362.9	393.6	422.6	453.3	536.0	545.2
77.5°	719.7	568.1	338.4	292.5	263.4	287.9	313.9	355.3	447.1	519.1	509.9
80°	405.8	369.0	255.7	214.4	196.0	214.4	234.3	312.4	352.2	382.8	387.4
82.5°	189.9	206.7	174.6	131.7	131.7	143.9	162.3	241.9	266.5	217.4	189.9
85°	68.9	93.4	85.8	67.4	59.7	58.2	101.1	137.8	85.8	76.6	65.8
87.5°	18.4	26.0	24.5	16.8	9.2	7.7	0.0	0.0	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)