

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: P642315

Luminaire Tested: GWS-SA6C-760-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642315  
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-SA6C-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**

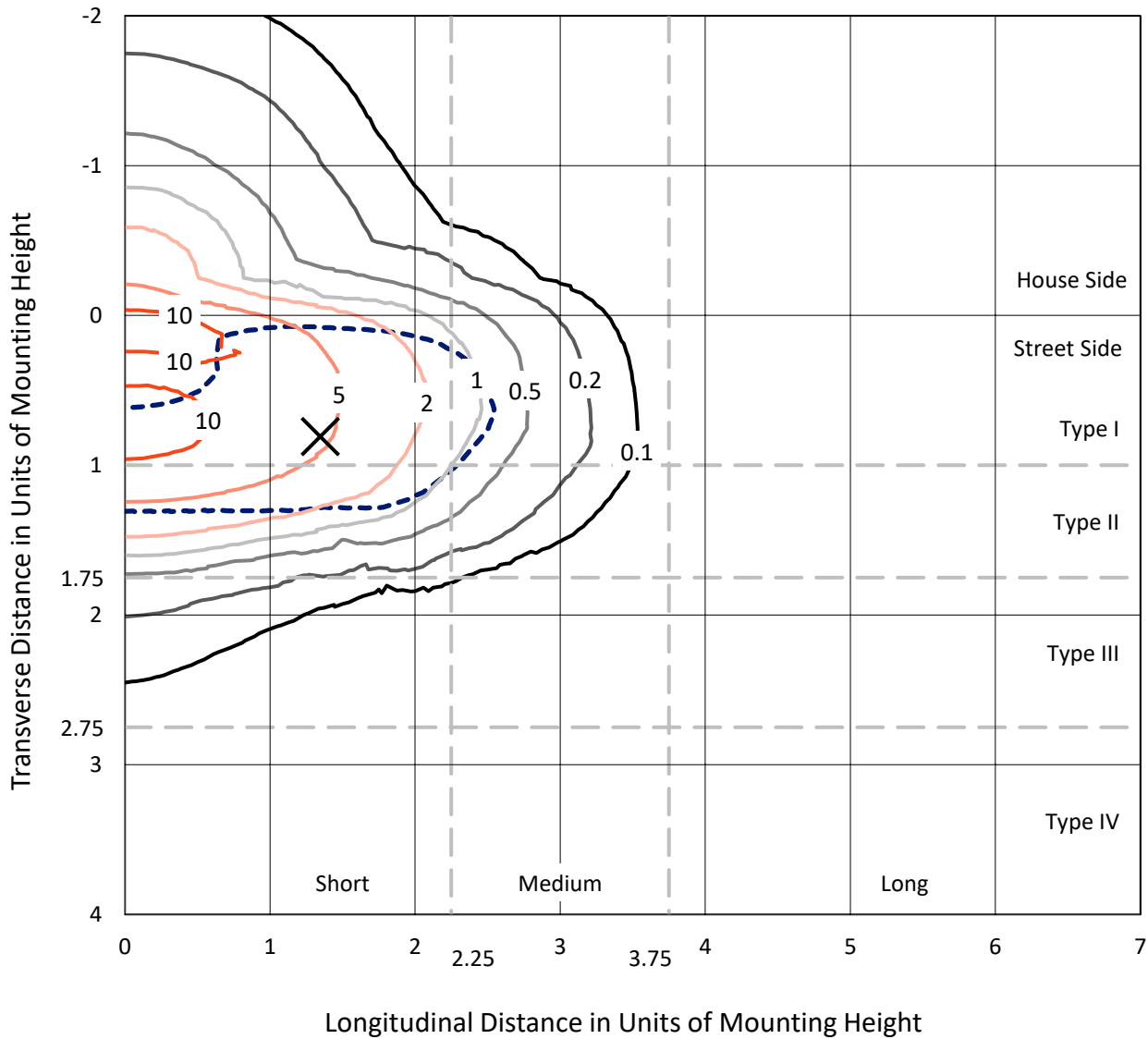
Lumens per Lamp: N/A  
Luminaire Lumens: 29172 lumens  
Efficiency: N/A  
Efficacy: 154.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

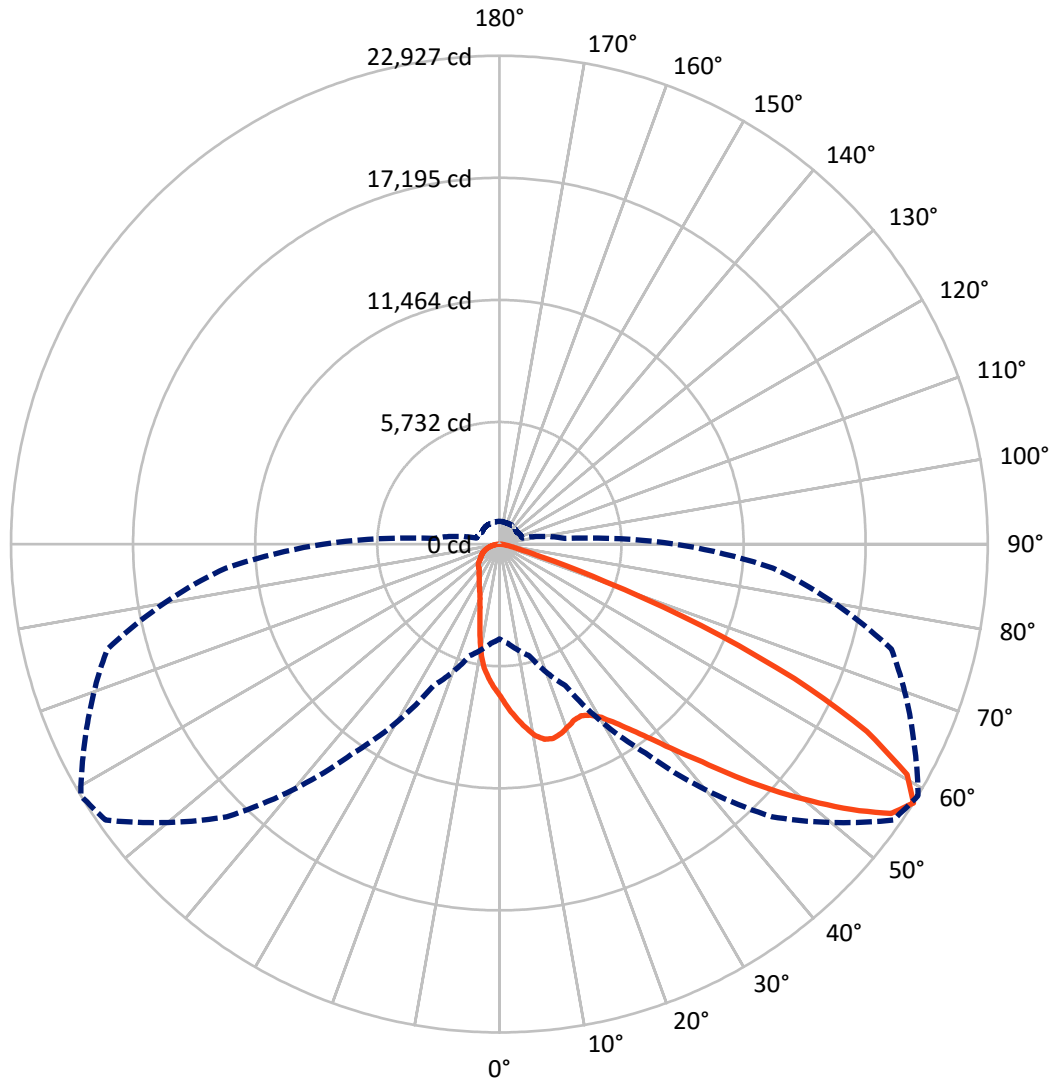
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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	4527.3	0.0	4527.3
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	24644.7	0.0	24644.7
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	29172.0	0.0	29172.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	664.9	2.3
10°-20°	1684.9	5.8
20°-30°	2731.3	9.4
30°-40°	4393.6	15.1
40°-50°	6822.9	23.4
50°-60°	7349.1	25.2
60°-70°	4265.2	14.6
70°-80°	1113.5	3.8
80°-90°	146.7	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°	29172.0	100.0
0°-180°	29172.0	100.0

**Coefficient of Utilization**



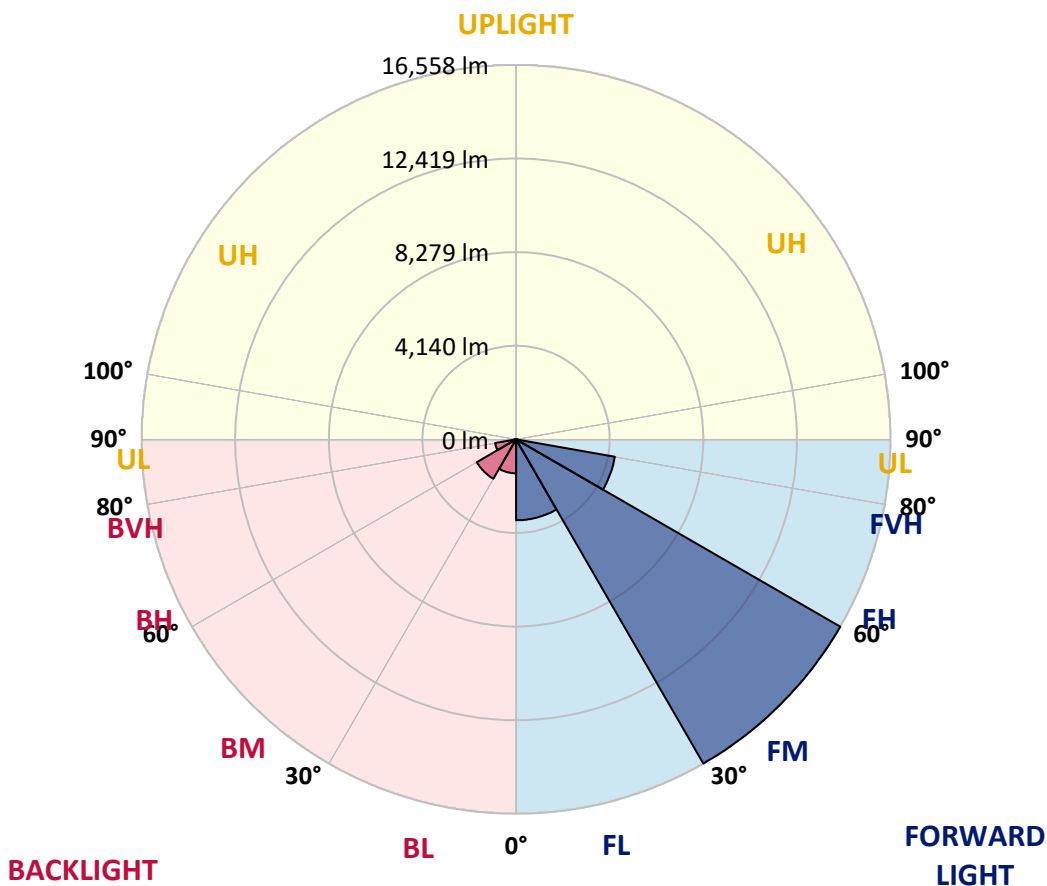
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3579.1	12.3			
FM (30°-60°)	16558.4	56.8			
FH (60°-80°)	4436.9	15.2			G2/5000
FVH (80°-90°)	70.2	0.2			G1/100
BL (0°-30°)	1502.0	5.1	B3/2500		
BM (30°-60°)	2007.2	6.9	B2/2500		
BH (60°-80°)	941.7	3.2	B2/1000		G2/1000
BVH (80°-90°)	76.4	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°	7161.1	7161.1	7161.1	7161.1	7161.1	7161.1	7161.1	7161.1	7161.1	7161.1	7161.1
2.5°	8122.3	8054.5	8101.7	8017.5	7982.6	7890.2	7771.1	7691.0	7567.8	7407.6	7267.9
5°	8929.4	8882.1	8892.4	8802.0	8721.9	8567.9	8323.5	8188.0	7978.5	7656.1	7356.2
7.5°	8904.7	8960.2	8991.0	9069.0	9091.6	9077.2	8857.5	8668.5	8438.5	7953.9	7502.1
10°	7982.6	8087.3	8181.8	8448.8	8773.3	9184.0	9235.3	9122.4	8890.3	8333.8	7676.6
12.5°	6978.4	7058.5	7142.7	7463.0	7960.0	8781.5	9338.0	9407.9	9315.4	8709.6	7873.8
15°	6485.5	6522.5	6602.5	6814.1	7210.4	8122.3	9159.4	9465.4	9631.7	9108.0	8095.6
17.5°	6464.9	6481.4	6520.4	6633.3	6908.5	7612.9	8836.9	9350.4	9880.2	9529.0	8354.3
20°	6890.1	6846.9	6822.3	6820.2	6955.8	7442.5	8524.8	9165.5	9997.3	9960.3	8631.6
22.5°	7479.5	7493.8	7440.4	7309.0	7292.6	7563.7	8368.7	8978.6	10032.2	10342.3	8888.3
25°	8315.3	8387.2	8229.1	7978.5	7855.3	7914.8	8465.2	8921.1	10028.1	10660.6	9048.5
27.5°	9290.8	9346.2	9186.1	8857.5	8602.8	8459.1	8752.7	9091.6	10063.0	10935.8	9145.0
30°	10401.8	10420.3	10200.6	9855.6	9483.8	9175.8	9231.2	9442.8	10241.6	11297.2	9257.9
32.5°	11759.3	11837.3	11504.7	10958.4	10438.8	10044.5	9874.0	10009.6	10627.7	11724.4	9432.5
35°	13482.3	13509.0	13086.0	12303.5	11568.3	11022.0	10664.7	10736.6	11215.1	12322.0	9695.4
37.5°	15106.8	15133.5	14683.7	13956.7	12905.3	12157.7	11640.2	11607.3	11966.7	13166.1	10124.6
40°	16137.7	16213.7	16012.5	15556.5	14552.3	13543.9	12841.6	12728.6	12952.5	14199.1	10722.2
42.5°	16692.2	16725.1	16721.0	16780.5	16182.9	15180.7	14197.0	13971.1	14121.0	15314.2	11326.0
45°	16696.3	16778.5	16998.2	17571.2	17597.9	16973.6	15909.8	15556.5	15418.9	16437.6	11956.5
47.5°	15948.8	16037.1	16640.9	17768.3	18600.1	18741.8	17961.4	17252.9	16673.7	17404.8	12474.0
50°	13685.6	13907.4	15057.5	17051.6	18797.2	20158.8	19918.5	18957.4	17788.9	18152.4	12798.5
52.5°	11720.3	11712.1	12420.6	15026.7	17973.7	20783.1	21812.0	20711.2	18891.7	18626.8	12880.6
55°	8582.3	8629.5	9354.5	11492.3	15776.3	20179.3	22853.2	22325.4	20156.8	18879.4	12847.8
57.5°	4450.3	4684.4	5427.8	7333.7	11987.3	18101.0	22576.0	22927.2	21442.4	19058.0	12890.9
60°	2248.8	2203.6	2470.6	3501.5	6945.5	14137.5	20867.3	21986.6	21674.4	19197.7	12917.6
62.5°	1501.2	1488.9	1415.0	1622.4	2838.2	8372.8	17788.9	19357.9	20062.3	18869.1	12576.7
65°	1300.0	1275.3	1139.8	1131.6	1378.0	3472.8	13038.7	15217.7	16581.3	17408.9	11761.4
67.5°	1170.6	1133.6	996.0	928.3	989.9	1525.9	7348.0	10206.7	12244.0	14722.8	9974.7
70°	1045.3	1026.8	889.2	790.7	784.5	930.3	2706.7	5267.7	7491.8	10044.5	7292.6
72.5°	936.5	903.6	786.6	692.1	644.9	659.2	1174.7	2029.0	3877.3	6265.7	4362.0
75°	811.2	786.6	683.9	589.4	531.9	482.6	716.7	938.5	1768.2	2977.8	2059.8
77.5°	626.4	609.9	540.1	468.2	435.4	359.4	435.4	591.5	817.4	1254.8	1072.0
80°	363.5	373.8	402.5	365.6	320.4	256.7	283.4	340.9	490.8	679.8	607.9
82.5°	182.8	195.1	260.8	211.5	191.0	149.9	168.4	201.3	256.7	375.8	238.2
85°	14.4	14.4	47.2	53.4	65.7	53.4	67.8	82.1	117.1	149.9	80.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.2	10.3	18.5	34.9	22.6
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°	7161.1	7161.1	7161.1	7161.1	7161.1	7161.1	7161.1	7161.1	7161.1	7161.1	7161.1
2.5°	7173.5	7068.7	6943.5	6840.8	6682.6	6598.4	6491.6	6360.2	6306.8	6282.2	6267.8
5°	7187.8	7003.0	6736.0	6489.6	6216.5	6000.8	5760.5	5510.0	5366.2	5331.3	5306.7
7.5°	7241.2	6982.5	6557.4	6150.7	5643.5	5173.2	4715.2	4261.4	4029.3	3941.0	3932.8
10°	7315.2	6974.3	6376.6	5701.0	4844.6	4101.2	3565.2	3209.9	3060.0	3010.7	2994.2
12.5°	7407.6	6968.1	6138.4	5076.7	3922.5	3220.2	2914.2	2856.7	2877.2	2873.1	2873.1
15°	7524.6	6976.3	5850.9	4370.2	3172.9	2795.0	2801.2	2869.0	2932.6	2942.9	2942.9
17.5°	7652.0	6968.1	5434.0	3661.7	2723.2	2694.4	2788.9	2883.4	2940.9	2949.1	2949.1
20°	7789.6	6929.1	4908.3	2994.2	2526.0	2630.7	2733.4	2807.4	2842.3	2850.5	2850.5
22.5°	7871.7	6818.2	4337.3	2534.2	2400.7	2530.1	2597.9	2673.9	2678.0	2612.3	2610.2
25°	7859.4	6610.8	3686.3	2238.5	2267.3	2380.2	2466.5	2413.1	2347.3	2310.4	2304.2
27.5°	7781.4	6298.6	3023.0	2014.6	2109.1	2236.4	2209.7	2164.6	2148.1	2107.1	2103.0
30°	7682.8	5914.6	2427.4	1840.1	1944.8	2061.9	2020.8	2016.7	2000.3	1955.1	1955.1
32.5°	7588.3	5518.2	1977.7	1710.7	1840.1	1848.3	1905.8	1909.9	1901.7	1823.7	1815.4
35°	7561.6	5121.8	1673.7	1608.0	1737.4	1733.3	1815.4	1813.4	1671.7	1562.8	1560.8
37.5°	7641.7	4719.3	1493.0	1523.8	1595.7	1649.1	1714.8	1595.7	1548.5	1482.7	1478.6
40°	7812.2	4347.6	1400.6	1474.5	1505.3	1583.4	1480.7	1488.9	1476.6	1427.3	1421.1
42.5°	8038.1	4031.4	1349.3	1458.1	1454.0	1474.5	1361.6	1394.4	1412.9	1376.0	1369.8
45°	8255.7	3756.2	1322.6	1396.5	1417.0	1297.9	1275.3	1306.1	1334.9	1320.5	1314.3
47.5°	8415.9	3517.9	1308.2	1312.3	1369.8	1238.4	1201.4	1215.8	1250.7	1256.8	1254.8
50°	8465.2	3314.6	1291.8	1242.5	1230.1	1178.8	1150.1	1145.9	1187.0	1215.8	1219.9
52.5°	8370.8	3133.9	1248.6	1180.9	1121.3	1129.5	1119.2	1098.7	1139.8	1178.8	1182.9
55°	8231.1	3031.2	1180.9	1121.3	1051.5	1084.3	1088.4	1070.0	1096.7	1123.4	1123.4
57.5°	8241.4	3090.8	1115.1	1065.9	989.9	1033.0	1055.6	1047.4	1047.4	1067.9	1070.0
60°	8309.1	3177.0	1072.0	996.0	928.3	973.4	1024.8	1016.6	998.1	1024.8	1024.8
62.5°	8114.0	3062.0	1043.3	928.3	862.5	915.9	977.5	973.4	952.9	996.0	1000.1
65°	7539.0	2754.0	1010.4	844.1	796.8	858.4	911.8	926.2	907.7	965.2	975.5
67.5°	6319.1	2316.5	946.7	764.0	731.1	788.6	840.0	860.5	846.1	913.9	922.1
70°	4711.1	1875.0	846.1	675.7	651.0	702.4	749.6	757.8	759.9	840.0	848.2
72.5°	3004.5	1458.1	712.6	577.1	558.6	597.6	632.5	665.4	679.8	755.8	753.7
75°	1675.8	1084.3	573.0	488.8	455.9	486.7	527.8	566.8	607.9	718.8	731.1
77.5°	965.2	761.9	453.9	392.3	353.2	386.1	421.0	476.5	599.7	696.2	683.9
80°	544.2	494.9	343.0	287.5	262.9	287.5	314.2	418.9	472.3	513.4	519.6
82.5°	254.7	277.2	234.1	176.6	176.6	193.0	217.7	324.5	357.3	291.6	254.7
85°	92.4	125.3	115.0	90.4	80.1	78.0	135.5	184.8	115.0	102.7	88.3
87.5°	24.6	34.9	32.9	22.6	12.3	10.3	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)