

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: P642920

Luminaire Tested: GWS-SA6D-830-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642920  
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-SA6D-830-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28977.5 lumens  
Efficiency: N/A  
Efficacy: 117.9 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): 245.7  
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

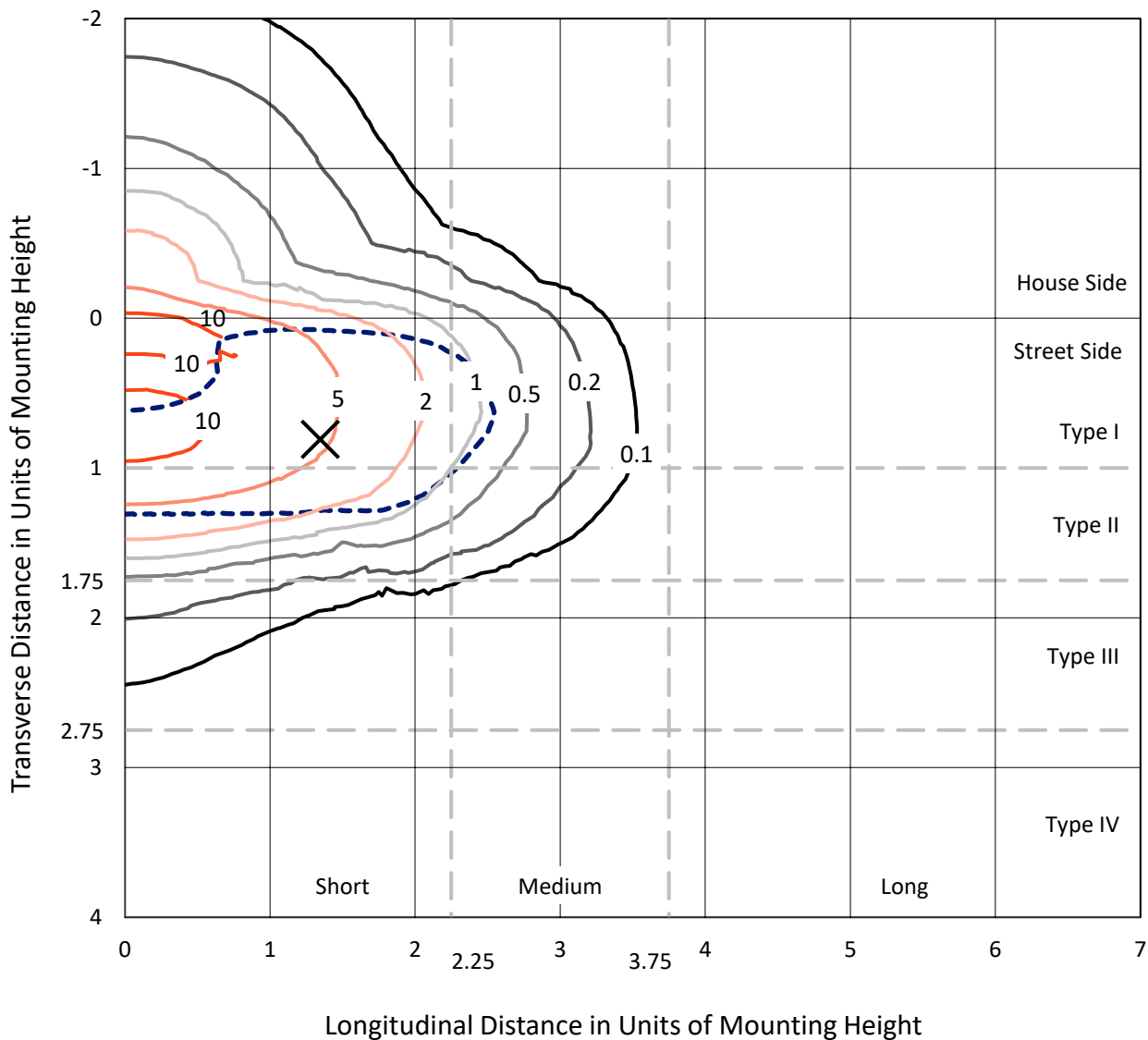


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### Iso-Footcandle Lines of Horizontal Illumination

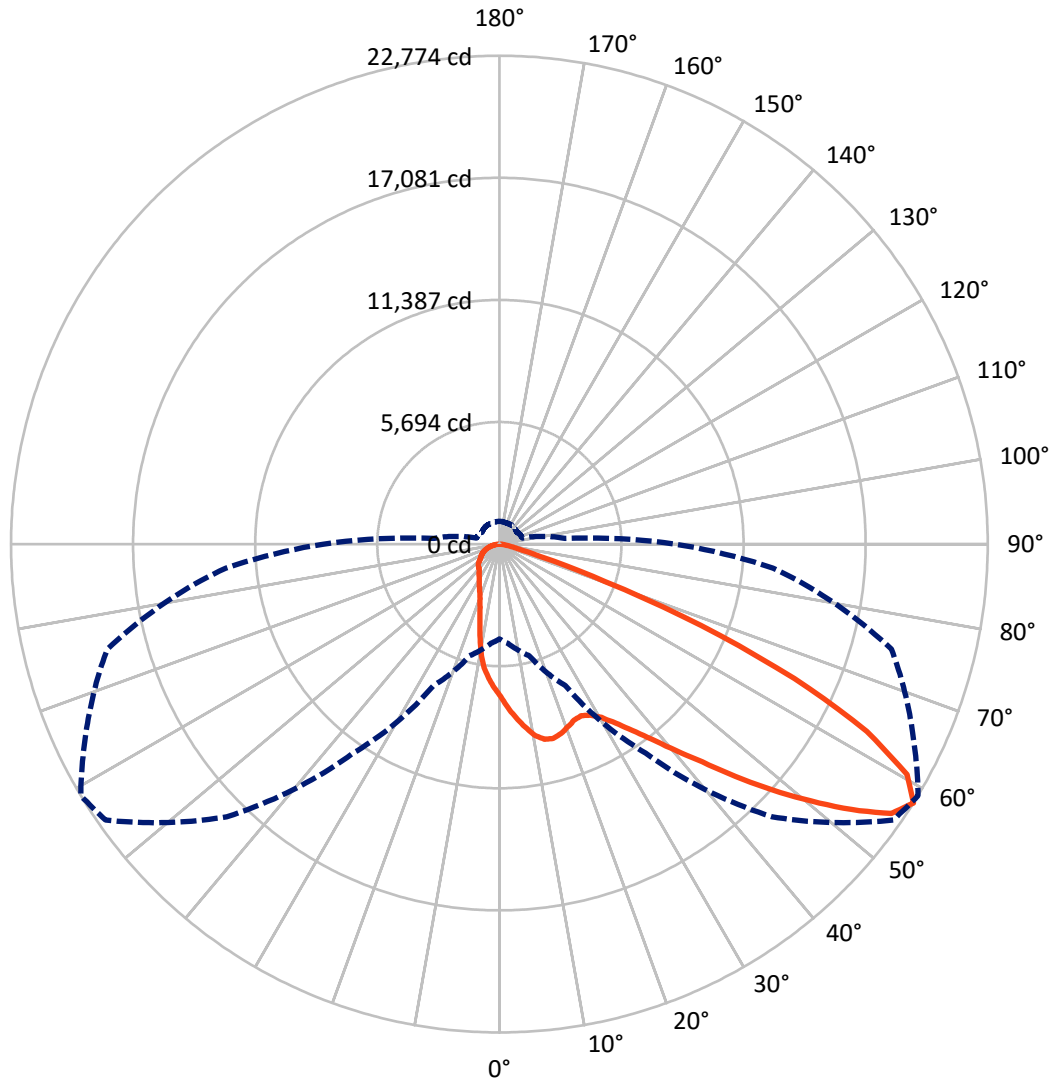
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 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	4497.2	0.0	4497.2
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	24480.3	0.0	24480.3
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	28977.5	0.0	28977.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	660.5	2.3
10°-20°	1673.7	5.8
20°-30°	2713.1	9.4
30°-40°	4364.3	15.1
40°-50°	6777.4	23.4
50°-60°	7300.1	25.2
60°-70°	4236.7	14.6
70°-80°	1106.0	3.8
80°-90°	145.7	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°	28977.5	100.0
0°-180°	28977.5	100.0

**Coefficient of Utilization**



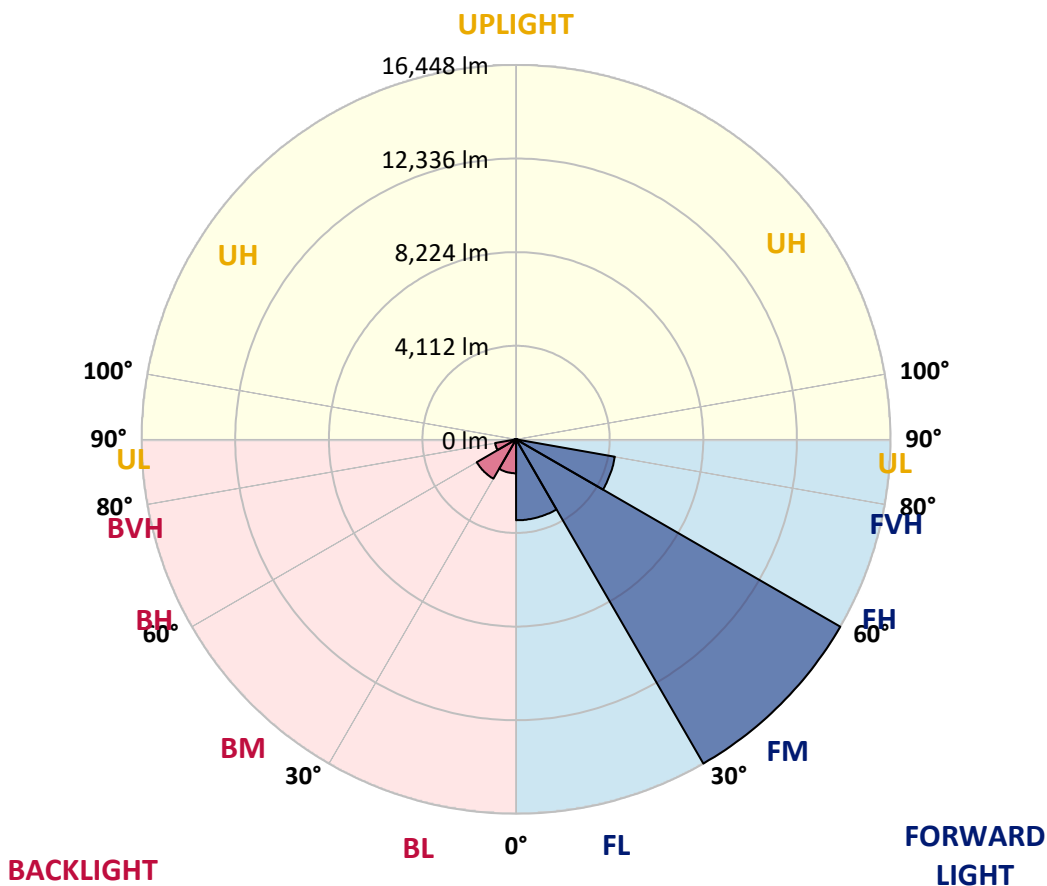
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3555.3	12.3			
FM (30°-60°)	16448.0	56.8			
FH (60°-80°)	4407.4	15.2			G2/5000
FVH (80°-90°)	69.8	0.2			G1/100
BL (0°-30°)	1492.0	5.1	B3/2500		
BM (30°-60°)	1993.9	6.9	B2/2500		
BH (60°-80°)	935.4	3.2	B2/1000		G2/1000
BVH (80°-90°)	75.9	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°	7113.4	7113.4	7113.4	7113.4	7113.4	7113.4	7113.4	7113.4	7113.4	7113.4	7113.4
2.5°	8068.1	8000.8	8047.7	7964.1	7929.4	7837.6	7719.3	7639.7	7517.3	7358.2	7219.5
5°	8869.8	8822.9	8833.1	8743.3	8663.8	8510.8	8268.0	8133.4	7925.3	7605.0	7307.2
7.5°	8845.3	8900.4	8931.0	9008.5	9031.0	9016.7	8798.4	8610.7	8382.3	7900.8	7452.0
10°	7929.4	8033.4	8127.3	8392.5	8714.8	9122.8	9173.8	9061.6	8831.1	8278.2	7625.4
12.5°	6931.8	7011.4	7095.0	7413.3	7906.9	8722.9	9275.8	9345.1	9253.3	8651.5	7821.3
15°	6442.2	6479.0	6558.5	6768.6	7162.4	8068.1	9098.3	9402.3	9567.5	9047.3	8041.6
17.5°	6421.8	6438.2	6476.9	6589.1	6862.5	7562.2	8778.0	9288.0	9814.3	9465.5	8298.6
20°	6844.1	6801.3	6776.8	6774.8	6909.4	7392.9	8467.9	9104.4	9930.6	9893.9	8574.0
22.5°	7429.6	7443.9	7390.8	7260.3	7244.0	7513.2	8312.9	8918.8	9965.3	10273.3	8829.0
25°	8259.9	8331.3	8174.2	7925.3	7802.9	7862.1	8408.8	8861.7	9961.2	10589.5	8988.1
27.5°	9228.9	9283.9	9124.8	8798.4	8545.5	8402.7	8694.4	9031.0	9995.9	10862.9	9084.0
30°	10332.5	10350.8	10132.6	9789.8	9420.6	9114.6	9169.7	9379.8	10173.4	11221.9	9196.2
32.5°	11680.9	11758.4	11427.9	10885.3	10369.2	9977.5	9808.2	9942.8	10556.9	11646.2	9369.6
35°	13392.4	13419.0	12998.7	12221.5	11491.2	10948.6	10593.6	10665.0	11140.3	12239.9	9630.7
37.5°	15006.1	15032.6	14585.8	13863.7	12819.2	12076.7	11562.6	11529.9	11886.9	13078.3	10057.1
40°	16030.1	16105.6	15905.7	15452.8	14455.3	13453.6	12756.0	12643.8	12866.1	14104.4	10650.7
42.5°	16580.9	16613.6	16609.5	16668.6	16075.0	15079.5	14102.4	13878.0	14026.9	15212.1	11250.5
45°	16585.0	16666.6	16884.9	17454.0	17480.6	16860.4	15803.7	15452.8	15316.1	16328.0	11876.7
47.5°	15842.5	15930.2	16529.9	17649.9	18476.1	18616.8	17841.6	17137.8	16562.6	17288.8	12390.8
50°	13594.4	13814.7	14957.1	16937.9	18671.9	20024.4	19785.7	18831.0	17670.3	18031.3	12713.1
52.5°	11642.1	11634.0	12337.8	14926.5	17853.9	20644.6	21666.6	20573.2	18765.7	18502.6	12794.7
55°	8525.1	8572.0	9292.1	11415.7	15671.1	20044.8	22700.9	22176.6	20022.4	18753.5	12762.1
57.5°	4420.6	4653.2	5391.7	7284.8	11907.3	17980.3	22425.5	22774.3	21299.4	18931.0	12804.9
60°	2233.8	2188.9	2454.1	3478.2	6899.2	14043.2	20728.2	21840.0	21529.9	19069.7	12831.4
62.5°	1491.2	1479.0	1405.5	1611.6	2819.2	8317.0	17670.3	19228.8	19928.5	18743.3	12492.8
65°	1291.3	1266.8	1132.2	1124.0	1368.8	3449.6	12951.8	15116.2	16470.8	17292.9	11682.9
67.5°	1162.8	1126.1	989.4	922.1	983.3	1515.7	7299.0	10138.7	12162.3	14624.6	9908.2
70°	1038.3	1020.0	883.3	785.4	779.3	924.1	2688.7	5232.5	7441.8	9977.5	7244.0
72.5°	930.2	897.6	781.3	687.5	640.6	654.8	1166.9	2015.5	3851.5	6224.0	4332.9
75°	805.8	781.3	679.3	585.5	528.4	479.4	712.0	932.3	1756.4	2958.0	2046.1
77.5°	622.2	605.9	536.5	465.1	432.5	357.0	432.5	587.5	811.9	1246.4	1064.9
80°	361.1	371.3	399.8	363.1	318.2	255.0	281.5	338.6	487.6	675.2	603.8
82.5°	181.6	193.8	259.1	210.1	189.7	148.9	167.3	199.9	255.0	373.3	236.6
85°	14.3	14.3	46.9	53.0	65.3	53.0	67.3	81.6	116.3	148.9	79.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.1	10.2	18.4	34.7	22.4
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°	7113.4	7113.4	7113.4	7113.4	7113.4	7113.4	7113.4	7113.4	7113.4	7113.4	7113.4
2.5°	7125.6	7021.6	6897.2	6795.2	6638.1	6554.4	6448.4	6317.8	6264.8	6240.3	6226.0
5°	7139.9	6956.3	6691.1	6446.3	6175.0	5960.8	5722.1	5473.3	5330.5	5295.8	5271.3
7.5°	7193.0	6935.9	6513.6	6109.7	5605.9	5138.7	4683.8	4233.0	4002.4	3914.7	3906.6
10°	7266.4	6927.8	6334.1	5663.0	4812.3	4073.8	3541.4	3188.5	3039.6	2990.6	2974.3
12.5°	7358.2	6921.6	6097.5	5042.8	3896.4	3198.7	2894.7	2837.6	2858.0	2853.9	2853.9
15°	7474.5	6929.8	5811.9	4341.1	3151.8	2776.4	2782.5	2849.8	2913.1	2923.3	2923.3
17.5°	7601.0	6921.6	5397.8	3637.3	2705.0	2676.4	2770.3	2864.1	2921.2	2929.4	2929.4
20°	7737.6	6882.9	4875.5	2974.3	2509.2	2613.2	2715.2	2788.6	2823.3	2831.5	2831.5
22.5°	7819.2	6772.7	4308.4	2517.3	2384.7	2513.3	2580.6	2656.0	2660.1	2594.8	2592.8
25°	7807.0	6566.7	3661.8	2223.6	2252.1	2364.3	2450.0	2397.0	2331.7	2295.0	2288.9
27.5°	7729.5	6256.6	3002.8	2001.2	2095.1	2221.5	2195.0	2150.1	2133.8	2093.0	2088.9
30°	7631.6	5875.1	2411.3	1827.8	1931.9	2048.1	2007.3	2003.3	1986.9	1942.1	1942.1
32.5°	7537.7	5481.4	1964.5	1699.3	1827.8	1836.0	1893.1	1897.2	1889.0	1811.5	1803.3
35°	7511.2	5087.7	1662.6	1597.3	1725.8	1721.7	1803.3	1801.3	1660.5	1552.4	1550.4
37.5°	7590.8	4687.9	1483.1	1513.7	1585.1	1638.1	1703.4	1585.1	1538.1	1472.9	1468.8
40°	7760.1	4318.6	1391.3	1464.7	1495.3	1572.8	1470.8	1479.0	1466.7	1417.8	1411.7
42.5°	7984.5	4004.5	1340.3	1448.4	1444.3	1464.7	1352.5	1385.1	1403.5	1366.8	1360.7
45°	8200.7	3731.1	1313.7	1387.2	1407.6	1289.3	1266.8	1297.4	1326.0	1311.7	1305.6
47.5°	8359.8	3494.5	1299.5	1303.5	1360.7	1230.1	1193.4	1207.7	1242.3	1248.5	1246.4
50°	8408.8	3292.5	1283.1	1234.2	1221.9	1170.9	1142.4	1138.3	1179.1	1207.7	1211.7
52.5°	8314.9	3113.0	1240.3	1173.0	1113.8	1122.0	1111.8	1091.4	1132.2	1170.9	1175.0
55°	8176.2	3011.0	1173.0	1113.8	1044.5	1077.1	1081.2	1062.8	1089.3	1115.9	1115.9
57.5°	8186.4	3070.2	1107.7	1058.7	983.3	1026.1	1048.5	1040.4	1040.4	1060.8	1062.8
60°	8253.7	3155.8	1064.9	989.4	922.1	966.9	1017.9	1009.8	991.4	1017.9	1017.9
62.5°	8059.9	3041.6	1036.3	922.1	856.8	909.8	971.0	966.9	946.5	989.4	993.5
65°	7488.8	2735.6	1003.7	838.4	791.5	852.7	905.7	920.0	901.7	958.8	969.0
67.5°	6277.0	2301.1	940.4	758.9	726.2	783.4	834.4	854.8	840.5	907.8	915.9
70°	4679.7	1862.5	840.5	671.2	646.7	697.7	744.6	752.8	754.8	834.4	842.5
72.5°	2984.5	1448.4	707.9	573.2	554.9	593.6	628.3	661.0	675.2	750.7	748.7
75°	1664.6	1077.1	569.2	485.5	452.9	483.5	524.3	563.0	603.8	714.0	726.2
77.5°	958.8	756.8	450.8	389.6	350.9	383.5	418.2	473.3	595.7	691.6	679.3
80°	540.6	491.6	340.7	285.6	261.1	285.6	312.1	416.2	469.2	510.0	516.1
82.5°	253.0	275.4	232.6	175.4	175.4	191.8	216.2	322.3	355.0	289.7	253.0
85°	91.8	124.4	114.2	89.8	79.6	77.5	134.6	183.6	114.2	102.0	87.7
87.5°	24.5	34.7	32.6	22.4	12.2	10.2	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)