

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: P638000

Luminaire Tested: GWS-SA4D-830-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638000  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-830-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

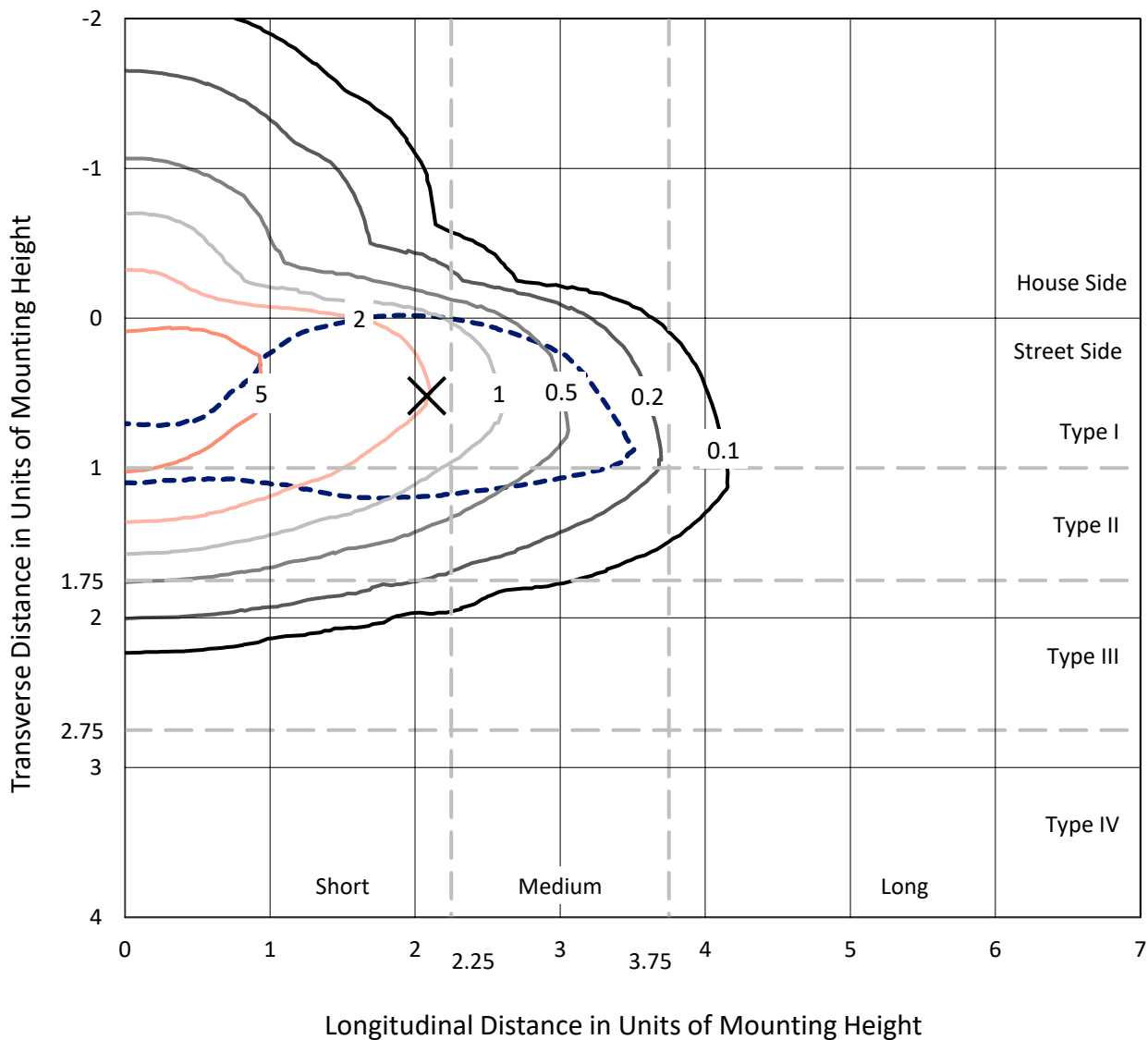
Lumens per Lamp: N/A  
Luminaire Lumens: 19836.6 lumens  
Efficiency: N/A  
Efficacy: 122.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

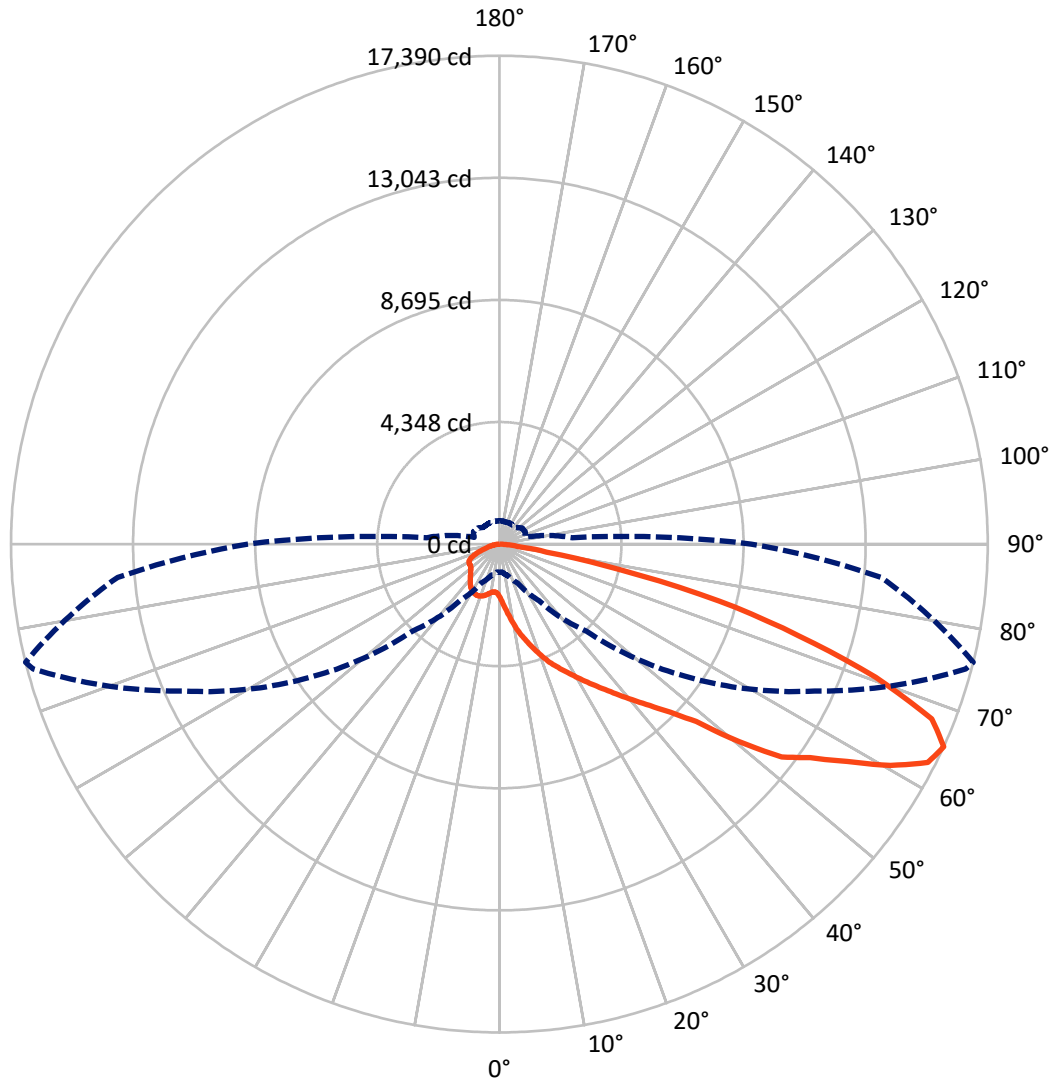
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3315.7	0.0	3315.7
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	16520.9	0.0	16520.9
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	19836.6	0.0	19836.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.2	1.1
10°-20°	850.0	4.3
20°-30°	1656.6	8.4
30°-40°	2770.6	14.0
40°-50°	3966.9	20.0
50°-60°	4696.3	23.7
60°-70°	3905.0	19.7
70°-80°	1598.0	8.1
80°-90°	170.1	0.9
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°	19836.6	100.0
0°-180°	19836.6	100.0

**Coefficient of Utilization**



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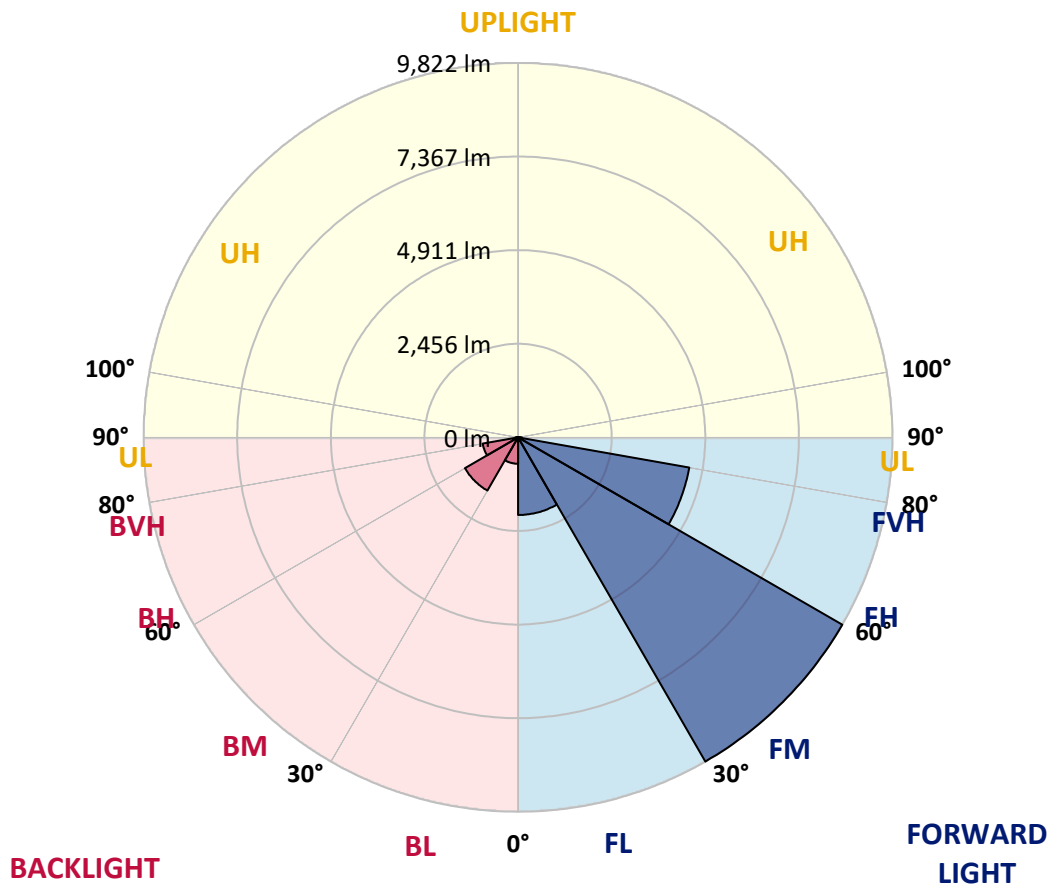
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2036.2	10.3			
FM (30°-60°)	9822.3	49.5			
FH (60°-80°)	4560.9	23.0			G2/5000
FVH (80°-90°)	101.5	0.5			G2/225
BL (0°-30°)	693.6	3.5	B2/1000		
BM (30°-60°)	1611.4	8.1	B2/2500		
BH (60°-80°)	942.0	4.7	B2/1000		G2/1000
BVH (80°-90°)	68.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1878.5	1878.5	1878.5	1878.5	1878.5	1878.5	1878.5	1878.5	1878.5	1878.5	1878.5
2.5°	2632.9	2642.7	2610.6	2599.4	2524.1	2422.3	2337.3	2209.0	2090.4	2072.3	1966.3
5°	3344.1	3302.3	3266.0	3242.3	3137.7	3022.0	2842.1	2600.8	2348.4	2317.7	2089.0
7.5°	3766.7	3759.7	3715.1	3701.1	3620.2	3504.5	3319.0	3019.2	2652.4	2602.2	2255.0
10°	4105.5	4101.4	4079.0	4091.6	4017.7	3904.7	3724.8	3415.2	2985.7	2935.5	2440.5
12.5°	4401.2	4408.2	4404.0	4450.0	4412.3	4324.5	4137.6	3797.3	3319.0	3264.6	2666.4
15°	4617.3	4622.9	4643.8	4744.2	4765.2	4747.0	4557.4	4172.5	3648.1	3570.0	2899.3
17.5°	4678.7	4689.9	4740.1	4901.8	5014.8	5090.1	4949.2	4554.6	3971.7	3886.6	3136.3
20°	4761.0	4773.5	4823.7	4992.5	5158.4	5330.0	5304.9	4942.3	4298.0	4228.3	3376.2
22.5°	5141.7	5131.9	5109.6	5190.5	5309.0	5522.4	5585.2	5314.6	4635.5	4568.5	3641.2
25°	5875.2	5857.1	5714.8	5640.9	5601.9	5731.6	5843.1	5653.5	4964.6	4864.2	3888.0
27.5°	6684.1	6674.3	6493.0	6317.3	6077.4	6021.6	6087.2	5949.1	5283.9	5182.1	4102.8
30°	7449.7	7420.4	7230.7	7010.4	6689.6	6449.8	6353.5	6239.2	5634.0	5528.0	4353.8
32.5°	8134.4	8096.7	7873.6	7629.6	7293.5	7010.4	6723.1	6547.4	6030.0	5907.3	4610.4
35°	8696.4	8658.7	8430.0	8170.6	7801.1	7591.9	7198.6	6882.1	6433.0	6308.9	4913.0
37.5°	9131.5	9096.6	8858.2	8603.0	8280.8	8114.9	7773.2	7258.6	6897.4	6767.7	5233.7
40°	9375.5	9350.4	9159.4	8957.2	8686.6	8543.0	8389.6	7734.1	7417.6	7287.9	5611.7
42.5°	9449.4	9432.7	9298.8	9194.2	9011.6	8902.8	8990.6	8293.4	7972.6	7859.7	6037.0
45°	9264.0	9264.0	9224.9	9277.9	9286.3	9284.9	9593.1	8925.1	8654.5	8530.4	6636.6
47.5°	8789.8	8820.5	8877.7	9138.5	9413.2	9643.3	10297.3	9767.4	9531.7	9429.9	7485.9
50°	7922.4	8006.1	8201.3	8710.3	9294.6	9880.4	10963.9	11012.7	11237.2	11057.4	8735.4
52.5°	6652.0	6639.4	7137.3	7862.4	8753.6	9890.1	11330.7	12111.6	12715.5	12591.4	9664.2
55°	5286.7	5265.8	5730.2	6730.1	7923.8	9516.4	11551.0	12615.1	13535.5	13423.9	10499.5
57.5°	4048.4	4021.9	4434.7	5336.9	6752.4	8722.9	11509.2	13214.7	14663.6	14606.5	11634.7
60°	2786.3	2754.2	3140.5	3929.8	5366.2	7509.6	11046.2	13522.9	15984.3	16003.8	12849.3
62.5°	1673.5	1655.3	1935.6	2547.8	3860.1	6006.3	9962.6	13336.0	17035.8	17123.6	13630.3
65°	1009.7	997.1	1161.7	1520.1	2448.8	4383.1	8292.0	12380.8	17187.8	17390.0	13648.4
67.5°	734.9	736.3	783.7	926.0	1428.0	2830.9	6222.5	10668.3	16395.7	16604.9	12788.0
70°	638.7	641.5	666.6	698.7	863.2	1620.5	4045.6	8421.7	14054.2	14216.0	10725.4
72.5°	567.6	567.6	584.3	601.0	675.0	987.3	2167.1	5886.4	11092.2	11135.4	8186.0
75°	499.2	495.1	503.4	511.8	585.7	690.3	1054.3	4101.4	8193.0	8092.5	5290.9
77.5°	397.4	393.3	394.7	403.0	470.0	493.7	534.1	2561.8	4617.3	4358.0	2337.3
80°	283.1	280.3	295.6	316.6	347.2	302.6	334.7	1239.8	1831.0	1704.1	906.5
82.5°	168.7	174.3	198.0	214.8	239.9	189.7	216.2	414.2	648.5	631.7	368.2
85°	23.7	25.1	71.1	82.3	103.2	73.9	114.4	186.9	259.4	277.5	129.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.8	33.5	73.9	75.3	32.1
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°	1878.5	1878.5	1878.5	1878.5	1878.5	1878.5	1878.5	1878.5	1878.5	1878.5	1878.5
2.5°	1911.9	1846.4	1752.9	1674.8	1609.3	1556.3	1511.7	1478.2	1468.5	1454.5	1454.5
5°	1981.6	1863.1	1695.8	1577.2	1508.9	1468.5	1440.6	1426.6	1419.6	1411.3	1407.1
7.5°	2077.9	1911.9	1686.0	1566.1	1513.1	1488.0	1469.9	1461.5	1455.9	1447.5	1447.5
10°	2210.4	1984.4	1716.7	1605.1	1563.3	1538.2	1517.3	1503.3	1490.8	1478.2	1475.4
12.5°	2354.0	2079.3	1772.5	1658.1	1613.5	1582.8	1553.5	1532.6	1517.3	1501.9	1497.7
15°	2513.0	2176.9	1832.4	1709.7	1653.9	1612.1	1577.2	1545.2	1524.2	1501.9	1499.1
17.5°	2669.2	2275.9	1882.6	1744.6	1673.5	1621.9	1571.7	1529.8	1503.3	1478.2	1471.2
20°	2856.0	2374.9	1917.5	1754.3	1669.3	1600.9	1541.0	1488.0	1458.7	1429.4	1425.2
22.5°	3027.6	2467.0	1934.2	1740.4	1637.2	1556.3	1486.6	1429.4	1397.3	1368.0	1362.5
25°	3193.5	2547.8	1927.3	1706.9	1588.4	1495.0	1422.4	1365.3	1334.6	1303.9	1295.5
27.5°	3353.9	2602.2	1899.4	1655.3	1527.0	1426.6	1356.9	1305.3	1278.8	1252.3	1241.1
30°	3511.5	2652.4	1856.1	1588.4	1448.9	1355.5	1298.3	1262.1	1235.6	1207.7	1199.3
32.5°	3670.4	2688.7	1790.6	1510.3	1369.4	1292.7	1257.9	1231.4	1203.5	1175.6	1167.2
35°	3830.8	2704.0	1711.1	1421.0	1302.5	1252.3	1239.8	1209.1	1171.4	1137.9	1126.8
37.5°	4021.9	2718.0	1612.1	1333.2	1243.9	1232.8	1230.0	1184.0	1139.3	1093.3	1080.8
40°	4252.0	2736.1	1510.3	1253.7	1196.5	1225.8	1214.6	1151.9	1062.6	1018.0	1004.1
42.5°	4533.7	2769.6	1404.3	1181.2	1161.7	1199.3	1186.8	1073.8	1013.8	988.7	981.8
45°	4947.8	2892.3	1298.3	1124.0	1135.2	1161.7	1142.1	1027.8	1004.1	987.3	979.0
47.5°	5685.6	3080.6	1206.3	1080.8	1114.2	1128.2	1052.9	1015.2	997.1	974.8	965.0
50°	6452.6	3162.8	1132.4	1054.3	1090.5	1097.5	1004.1	998.5	985.9	962.2	952.5
52.5°	6971.3	3151.7	1087.7	1044.5	1071.0	1044.5	981.8	980.4	972.0	944.1	933.0
55°	7557.0	3171.2	1068.2	1047.3	1062.6	955.3	953.9	958.1	953.9	923.2	917.6
57.5°	8347.7	3231.2	1058.5	1057.1	1057.1	912.0	927.4	933.0	924.6	910.6	906.5
60°	9107.8	3235.3	1040.3	1068.2	1052.9	885.5	896.7	902.3	892.5	889.7	888.3
62.5°	9393.7	3034.5	999.9	1059.9	1036.1	856.3	864.6	867.4	857.6	864.6	863.2
65°	8968.3	2607.8	933.0	1019.4	984.5	829.8	824.2	831.1	814.4	832.5	833.9
67.5°	7962.9	2072.3	831.1	942.7	912.0	800.5	789.3	789.3	761.4	789.3	787.9
70°	6420.5	1464.3	681.9	820.0	832.5	765.6	760.0	728.0	683.3	725.2	721.0
72.5°	4867.0	1051.5	536.9	648.5	716.8	716.8	718.2	663.8	612.2	631.7	615.0
75°	3083.3	740.5	429.5	496.5	562.0	628.9	661.0	560.6	514.6	506.2	497.9
77.5°	1389.0	486.7	334.7	380.7	398.8	496.5	603.8	482.5	419.8	401.6	396.1
80°	581.5	302.6	238.5	269.1	245.4	417.0	532.7	375.1	308.2	283.1	265.0
82.5°	255.2	179.9	152.0	145.0	153.4	309.6	397.4	249.6	192.4	260.8	263.6
85°	107.4	94.8	78.1	71.1	62.8	118.5	186.9	97.6	119.9	68.3	55.8
87.5°	25.1	27.9	20.9	13.9	8.4	1.4	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)