

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: P636788

Luminaire Tested: GWS-SA4B-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636788  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-740-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12738.9 lumens  
Efficiency: N/A  
Efficacy: 134.9 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): 94.4  
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

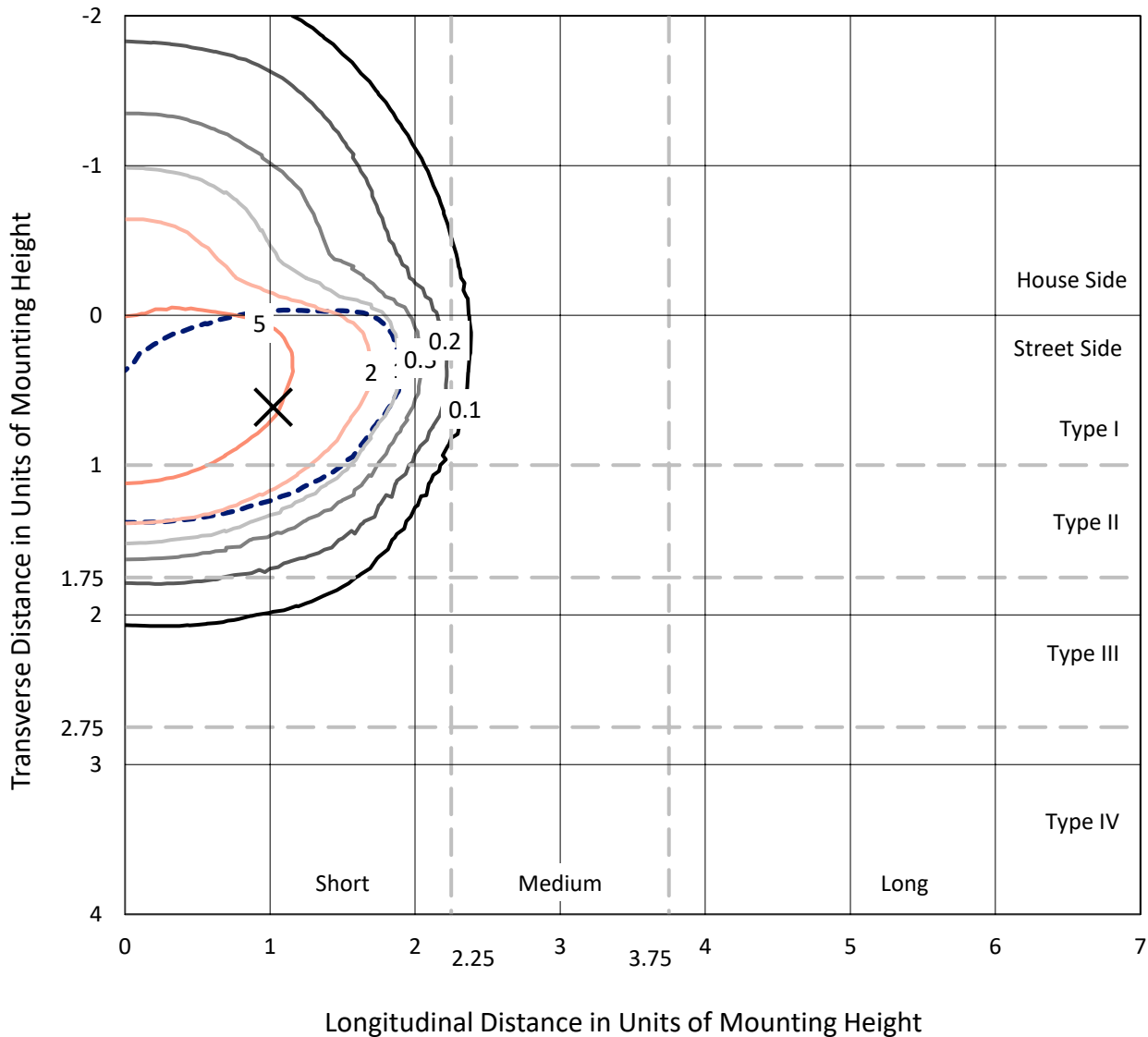


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### Iso-Footcandle Lines of Horizontal Illumination

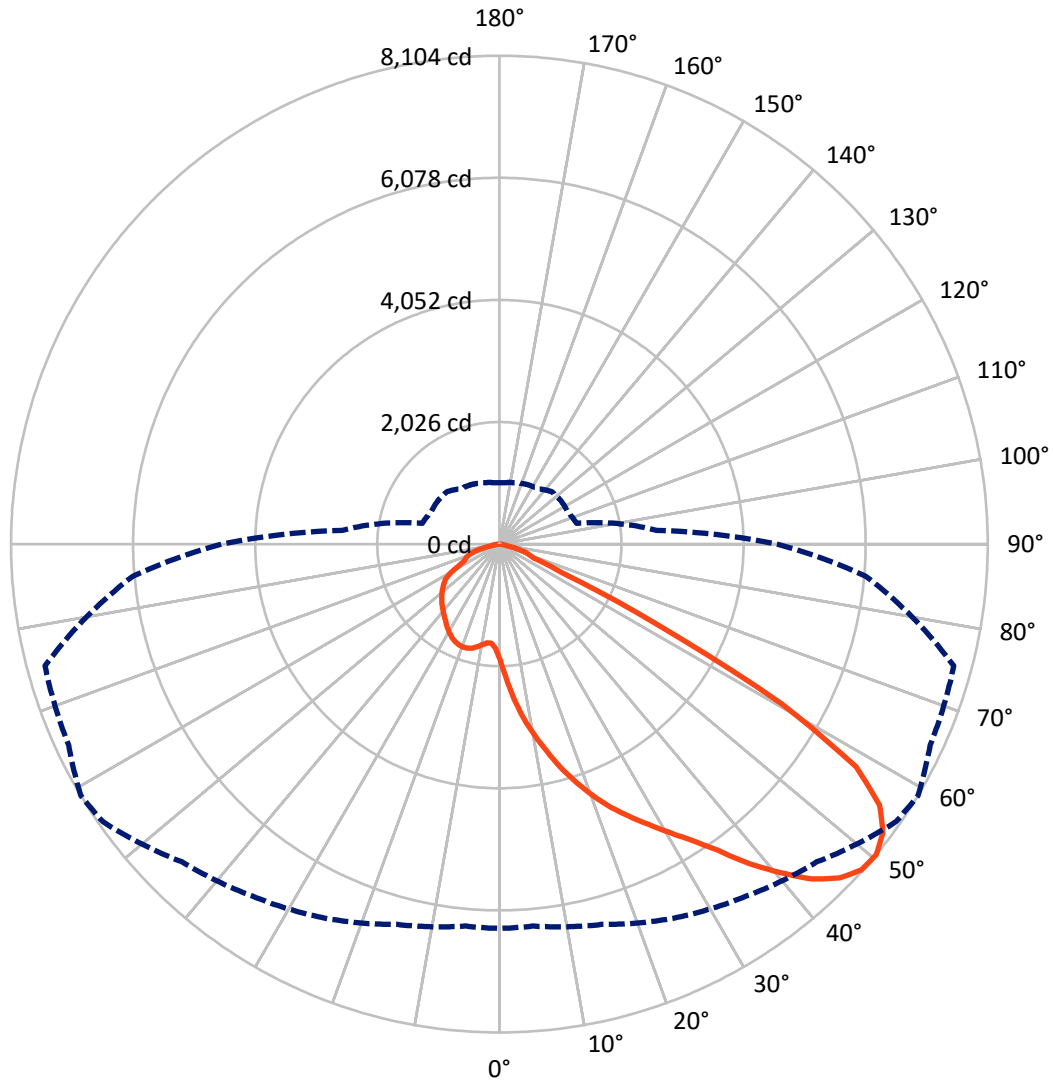
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2930.2	0.0	2930.2
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	9808.7	0.0	9808.7
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	12738.9	0.0	12738.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.5	1.7
10°-20°	786.0	6.2
20°-30°	1488.3	11.7
30°-40°	2468.2	19.4
40°-50°	3371.6	26.5
50°-60°	3060.6	24.0
60°-70°	1019.2	8.0
70°-80°	297.3	2.3
80°-90°	31.2	0.2
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°	12738.9	100.0
0°-180°	12738.9	100.0

**Coefficient of Utilization**



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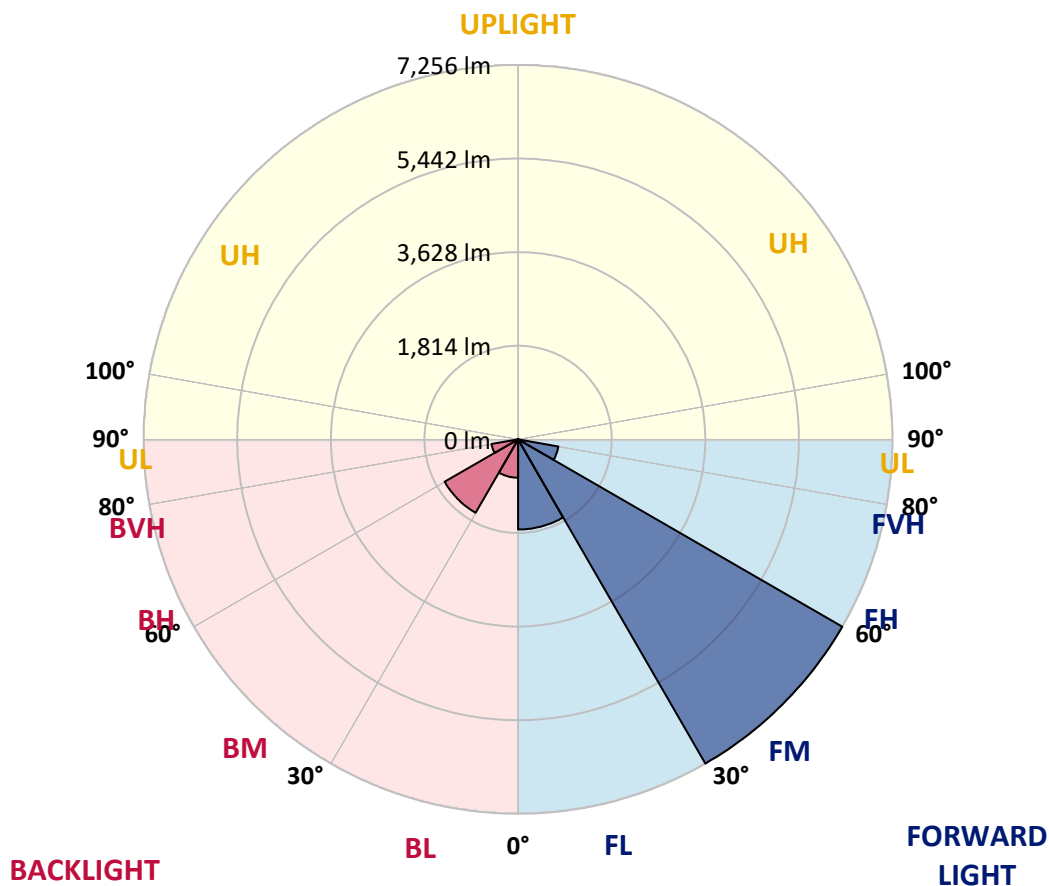
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1746.8	13.7			
FM (30°-60°)	7256.2	57.0			
FH (60°-80°)	793.5	6.2			G1/1800
FVH (80°-90°)	12.2	0.1			G1/100
BL (0°-30°)	744.0	5.8	B2/1000		
BM (30°-60°)	1644.1	12.9	B2/2500		
BH (60°-80°)	523.0	4.1	B2/1000		G2/1000
BVH (80°-90°)	19.0	0.1			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°	59°	65°	75°	85°
0°	1930.0	1930.0	1930.0	1930.0	1930.0	1930.0	1930.0	1930.0	1930.0	1930.0	1930.0
2.5°	2500.7	2519.4	2490.4	2492.4	2419.8	2386.6	2293.2	2238.2	2201.9	2100.2	2007.9
5°	3005.0	2983.3	2960.4	2946.9	2883.6	2794.4	2678.2	2585.8	2500.7	2301.5	2109.5
7.5°	3314.3	3302.8	3287.3	3279.0	3216.7	3123.3	3007.1	2928.3	2804.8	2535.0	2233.0
10°	3576.8	3563.3	3554.0	3560.2	3509.3	3449.2	3322.6	3232.3	3093.2	2781.9	2382.4
12.5°	3780.2	3787.4	3790.5	3823.7	3802.0	3765.6	3634.9	3539.4	3384.8	3042.4	2557.8
15°	3941.0	3938.9	3975.2	4038.5	4073.8	4051.0	3946.2	3866.3	3677.4	3298.7	2746.7
17.5°	3978.4	3980.4	4037.5	4148.5	4263.7	4319.7	4260.6	4165.1	3978.4	3551.9	2942.8
20°	4008.5	4012.6	4071.7	4198.3	4366.4	4523.1	4532.5	4464.0	4303.1	3825.8	3142.0
22.5°	4198.3	4207.7	4223.2	4303.1	4454.6	4652.8	4761.8	4747.3	4612.4	4113.3	3356.8
25°	4697.5	4669.4	4593.7	4570.9	4629.0	4789.8	4975.5	5003.6	4937.2	4429.7	3588.2
27.5°	5313.8	5283.7	5171.7	5053.4	4927.8	4983.8	5182.0	5266.1	5267.1	4778.4	3820.6
30°	5873.1	5849.2	5757.9	5588.8	5371.9	5291.0	5437.3	5550.4	5617.9	5181.0	4085.2
32.5°	6351.5	6329.7	6206.2	6068.2	5856.5	5693.6	5746.5	5855.5	6013.2	5701.9	4414.2
35°	6754.1	6732.3	6614.0	6475.0	6278.8	6181.3	6162.6	6237.3	6441.7	6245.6	4791.9
37.5°	7080.9	7059.1	6935.7	6804.9	6655.5	6661.7	6689.7	6726.1	6843.3	6827.8	5195.5
40°	7292.6	7269.8	7181.6	7088.2	6993.8	7068.5	7207.5	7164.0	7226.2	7297.8	5567.0
42.5°	7387.0	7358.0	7307.1	7286.4	7257.3	7373.6	7641.3	7597.7	7523.0	7611.2	5843.0
45°	7292.6	7267.7	7266.7	7330.0	7397.4	7546.8	7941.2	7905.9	7717.0	7762.7	6008.0
47.5°	7003.1	6981.3	7040.5	7206.5	7372.5	7590.4	8075.0	8081.2	7855.0	7826.0	6114.9
50°	6377.4	6362.9	6534.1	6848.5	7134.9	7454.5	8032.5	8104.1	7888.2	7806.3	6101.4
52.5°	5105.2	5172.7	5545.2	6070.3	6626.4	7215.8	7874.7	7968.1	7728.4	7676.6	6028.8
55°	3494.8	3525.9	3898.5	4665.3	5547.3	6699.1	7512.6	7656.8	7539.6	7654.8	6104.5
57.5°	1809.7	1834.6	2128.2	2808.9	3762.5	5294.1	6507.1	6980.3	7158.8	7764.8	6340.1
60°	743.0	763.7	885.1	1214.1	1897.9	3082.9	4682.9	5384.4	5803.6	7091.3	5630.3
62.5°	539.6	550.0	608.1	724.3	994.1	1510.8	2650.2	2908.5	3203.2	4444.3	3574.7
65°	454.5	465.9	512.6	583.2	725.3	926.6	1132.1	1138.3	1254.5	1810.7	1325.1
67.5°	380.8	391.2	432.7	492.9	586.3	657.9	608.1	609.1	607.0	656.8	635.0
70°	296.8	305.1	346.6	410.9	459.7	422.3	475.2	526.1	504.3	524.0	554.1
72.5°	216.9	226.2	262.5	311.3	298.8	300.9	385.0	436.9	424.4	446.2	474.2
75°	156.7	162.9	181.6	155.6	163.9	198.2	270.8	298.8	311.3	330.0	354.9
77.5°	50.8	50.8	57.1	71.6	89.2	110.0	138.0	149.4	168.1	188.9	206.5
80°	25.9	27.0	32.2	39.4	49.8	63.3	80.9	86.1	95.5	106.9	114.1
82.5°	12.5	13.5	15.6	19.7	25.9	33.2	44.6	49.8	56.0	63.3	68.5
85°	3.1	3.1	4.2	6.2	8.3	12.5	16.6	19.7	24.9	30.1	33.2
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	3.1	4.2	5.2	6.2	8.3
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°	1930.0	1930.0	1930.0	1930.0	1930.0	1930.0	1930.0	1930.0	1930.0	1930.0	1930.0
2.5°	1966.4	1908.2	1833.5	1770.2	1712.1	1667.5	1629.1	1610.4	1592.8	1580.3	1584.5
5°	2020.3	1920.7	1781.6	1685.1	1626.0	1595.9	1575.2	1564.8	1562.7	1554.4	1551.3
7.5°	2099.2	1957.0	1771.3	1673.7	1634.3	1618.7	1607.3	1601.1	1604.2	1595.9	1592.8
10°	2196.7	2017.2	1797.2	1711.1	1676.8	1665.4	1653.0	1644.7	1640.5	1628.1	1626.0
12.5°	2318.1	2091.9	1843.9	1758.8	1724.6	1704.9	1688.3	1673.7	1664.4	1648.8	1644.7
15°	2448.9	2174.9	1898.9	1805.5	1765.0	1736.0	1709.0	1687.2	1670.6	1649.9	1646.8
17.5°	2591.0	2262.1	1944.6	1837.7	1785.8	1747.4	1708.0	1675.8	1653.0	1626.0	1622.9
20°	2739.4	2350.3	1978.8	1853.2	1786.8	1735.0	1682.0	1639.5	1610.4	1583.5	1581.4
22.5°	2893.0	2431.2	1999.6	1849.1	1770.2	1705.9	1642.6	1594.9	1560.6	1528.5	1526.4
25°	3047.6	2509.0	2004.7	1832.5	1737.0	1662.3	1599.0	1543.0	1504.6	1468.3	1464.1
27.5°	3204.3	2574.4	1992.3	1799.3	1692.4	1611.5	1548.2	1493.2	1453.8	1417.4	1411.2
30°	3371.3	2630.4	1965.3	1755.7	1640.5	1557.5	1495.3	1453.8	1416.4	1380.1	1373.9
32.5°	3549.8	2679.2	1926.9	1702.8	1580.3	1503.6	1457.9	1420.5	1383.2	1351.0	1344.8
35°	3762.5	2711.4	1869.8	1634.3	1524.3	1464.1	1433.0	1389.4	1343.8	1308.5	1305.4
37.5°	3982.5	2736.3	1801.4	1568.9	1475.5	1441.3	1415.4	1356.2	1299.1	1256.6	1251.4
40°	4195.2	2757.0	1716.3	1507.7	1430.9	1424.7	1389.4	1315.7	1217.2	1169.4	1165.3
42.5°	4393.4	2763.3	1627.0	1442.3	1390.5	1387.3	1347.9	1233.8	1158.0	1127.9	1123.8
45°	4529.4	2758.1	1534.7	1381.1	1350.0	1333.4	1291.9	1174.6	1127.9	1100.9	1095.8
47.5°	4630.0	2731.1	1430.9	1316.8	1304.3	1281.5	1192.3	1137.3	1093.7	1066.7	1061.5
50°	4612.4	2619.0	1326.1	1254.5	1249.3	1229.6	1119.6	1090.6	1052.2	1023.1	1019.0
52.5°	4521.1	2406.3	1219.2	1186.0	1196.4	1158.0	1067.7	1034.5	1001.3	968.1	960.9
55°	4543.9	2252.7	1138.3	1119.6	1138.3	1051.1	1009.6	974.4	943.2	911.1	904.8
57.5°	4643.5	2101.2	1052.2	1048.0	1067.7	969.2	934.9	890.3	845.7	819.7	819.7
60°	3899.5	1531.6	900.7	911.1	955.7	902.8	872.7	827.0	778.2	755.4	755.4
62.5°	2305.7	960.9	747.1	735.7	763.7	796.9	813.5	776.2	718.1	688.0	689.0
65°	1015.9	699.4	658.9	649.6	641.3	664.1	709.8	712.9	651.6	616.4	617.4
67.5°	625.7	633.0	616.4	609.1	601.8	597.7	593.5	595.6	579.0	546.8	545.8
70°	564.5	584.2	572.8	566.6	557.2	550.0	525.1	484.6	456.6	448.3	457.6
72.5°	485.6	512.6	506.4	503.3	491.8	474.2	441.0	401.6	368.4	347.6	351.8
75°	366.3	388.1	391.2	392.2	379.8	363.2	328.9	295.7	266.7	244.9	250.1
77.5°	210.6	223.1	226.2	229.3	220.0	213.8	190.9	167.1	151.5	128.7	134.9
80°	117.3	122.4	122.4	123.5	118.3	111.0	95.5	82.0	74.7	64.3	65.4
82.5°	70.6	72.6	73.7	74.7	71.6	64.3	52.9	43.6	39.4	34.2	33.2
85°	34.2	36.3	36.3	37.4	32.2	28.0	21.8	16.6	14.5	10.4	11.4
87.5°	8.3	9.3	9.3	8.3	7.3	5.2	3.1	1.0	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)