

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: P637858

Luminaire Tested: GWS-SA4D-760-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637858  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-760-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

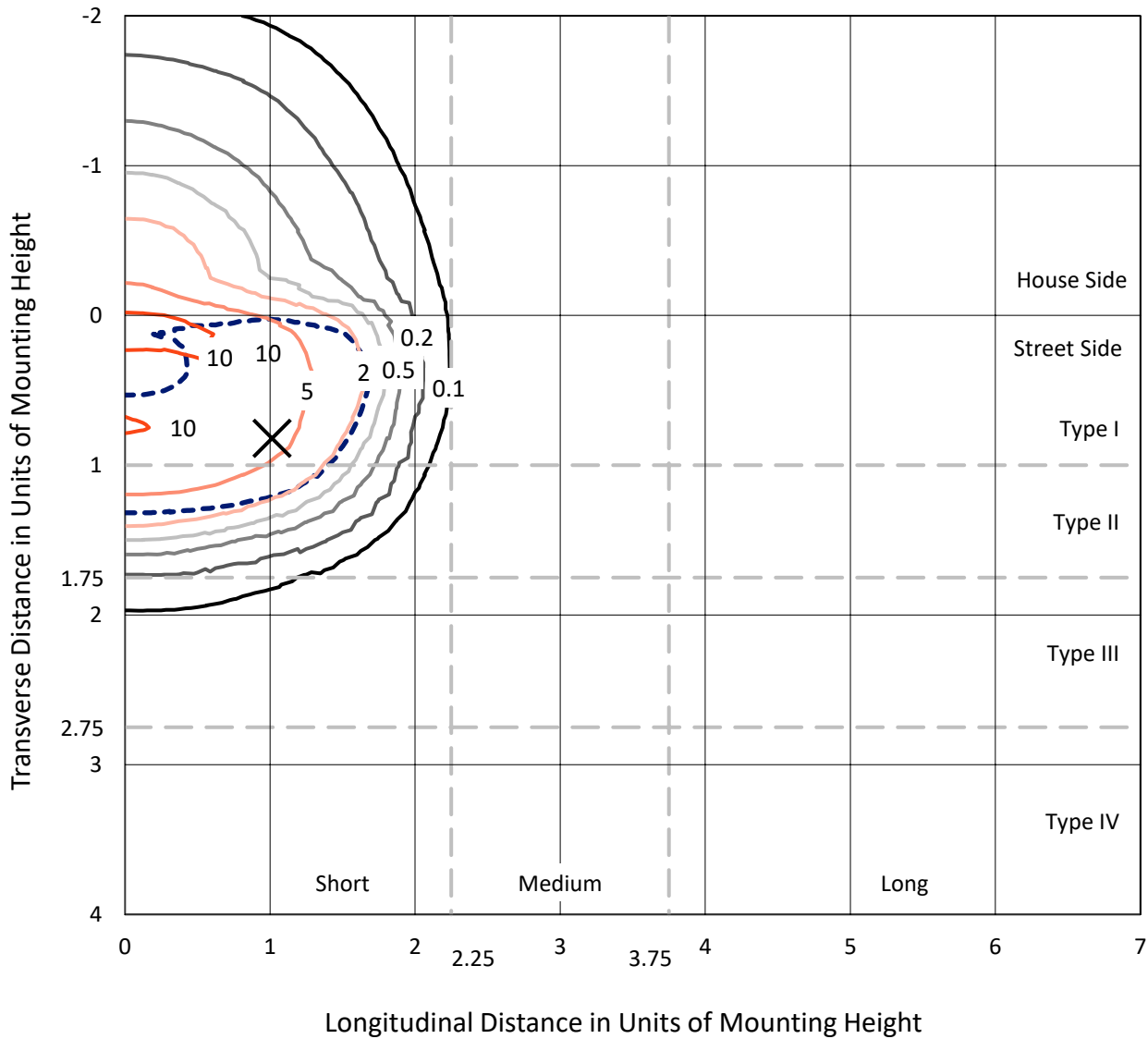
Lumens per Lamp: N/A  
Luminaire Lumens: 22414 lumens  
Efficiency: N/A  
Efficacy: 138.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

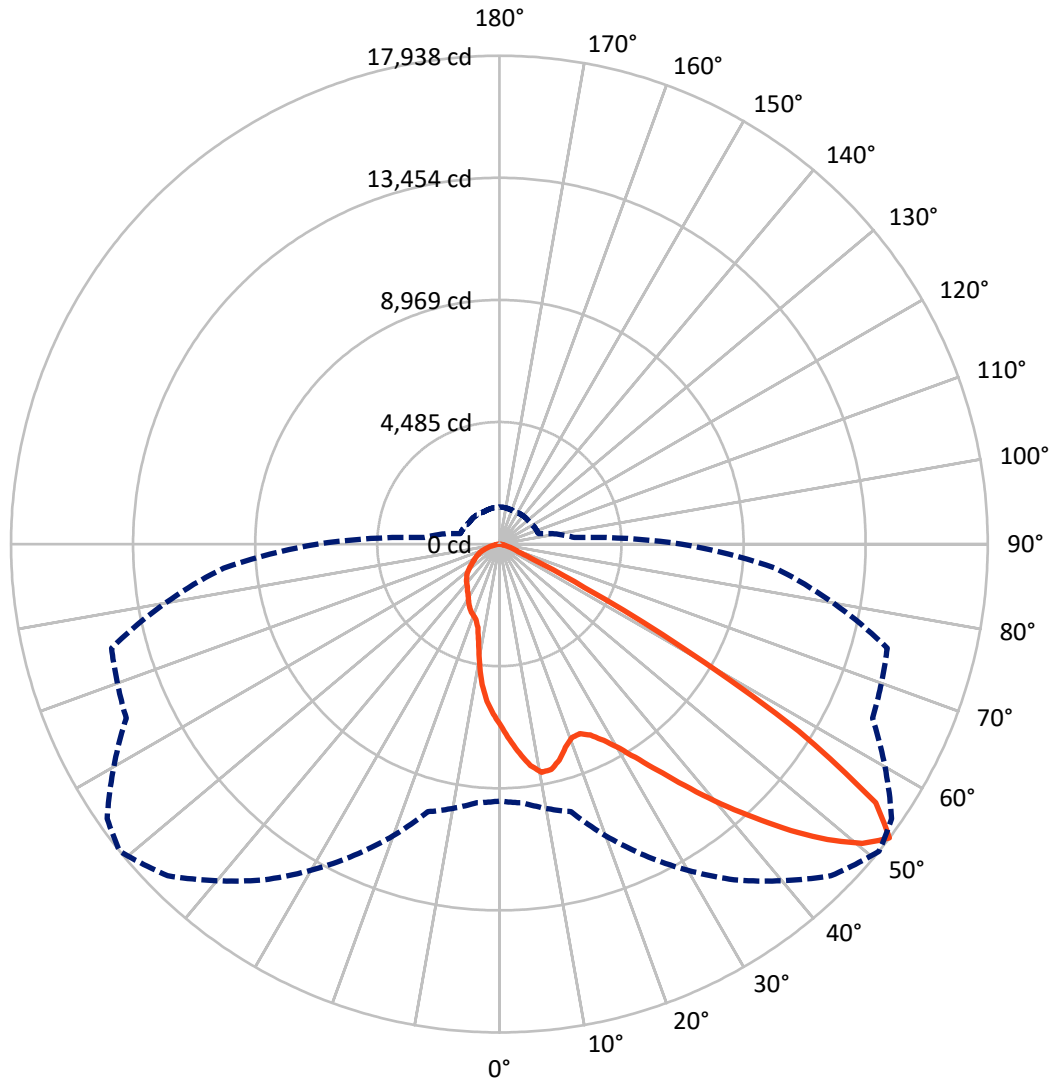
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4367.2	0.0	4367.2
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	18046.8	0.0	18046.8
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	22414.0	0.0	22414.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	622.8	2.8
10°-20°	1618.2	7.2
20°-30°	2631.0	11.7
30°-40°	4169.6	18.6
40°-50°	6288.6	28.1
50°-60°	5440.1	24.3
60°-70°	1233.3	5.5
70°-80°	363.7	1.6
80°-90°	46.8	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°	22414.0	100.0
0°-180°	22414.0	100.0

**Coefficient of Utilization**



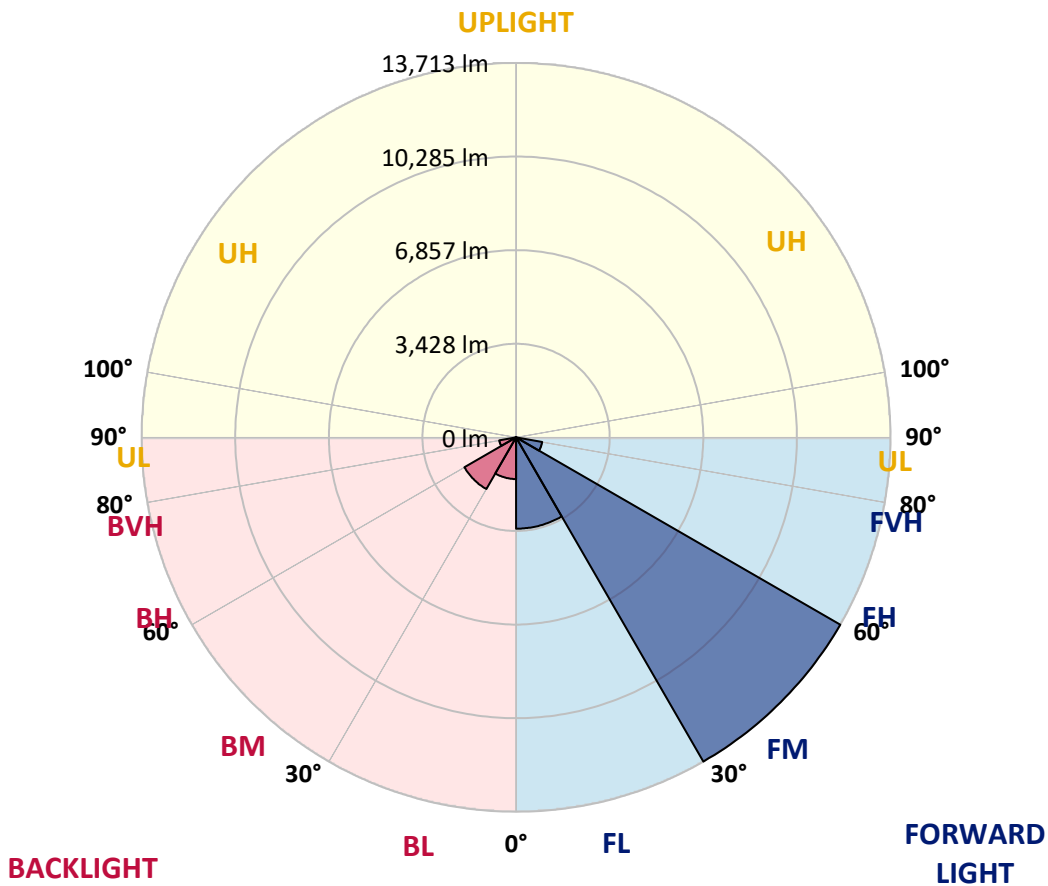
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3345.3	14.9			
FM (30°-60°)	13713.2	61.2			
FH (60°-80°)	970.6	4.3			G1/1800
FVH (80°-90°)	17.7	0.1			G1/100
BL (0°-30°)	1526.6	6.8	B3/2500		
BM (30°-60°)	2185.0	9.7	B2/2500		
BH (60°-80°)	626.4	2.8	B2/1000		G2/1000
BVH (80°-90°)	29.2	0.1			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°	51°	55°	65°	75°	85°
0°	6673.8	6673.8	6673.8	6673.8	6673.8	6673.8	6673.8	6673.8	6673.8	6673.8	6673.8
2.5°	7437.1	7479.6	7414.1	7389.3	7348.6	7277.7	7196.3	7173.2	6997.9	6882.8	6753.5
5°	8184.6	8207.6	8154.5	8101.3	8000.4	7874.6	7717.0	7683.3	7364.5	7100.6	6826.1
7.5°	8351.1	8342.2	8388.3	8418.4	8406.0	8356.4	8216.5	8150.9	7770.1	7352.1	6946.5
10°	7692.2	7642.6	7812.6	8014.5	8257.2	8537.0	8521.1	8515.8	8184.6	7690.4	7100.6
12.5°	6819.0	6794.2	6932.4	7185.6	7644.4	8264.3	8496.3	8677.0	8558.3	8012.8	7272.4
15°	6319.5	6310.7	6404.5	6587.0	6951.8	7734.7	8230.6	8588.4	8878.9	8358.1	7454.9
17.5°	6229.2	6234.5	6266.4	6370.9	6633.0	7277.7	7851.6	8351.1	9128.6	8737.2	7683.3
20°	6493.1	6528.5	6473.6	6489.6	6631.3	7113.0	7593.0	8112.0	9288.0	9118.0	7929.5
22.5°	7079.4	7067.0	6946.5	6875.7	6877.5	7214.0	7564.7	8000.4	9392.5	9488.2	8152.7
25°	7743.6	7729.4	7585.9	7428.3	7329.1	7488.5	7768.3	8119.0	9486.4	9826.4	8331.6
27.5°	8528.2	8483.9	8324.5	8122.6	7903.0	7972.0	8161.5	8439.6	9631.6	10159.4	8450.2
30°	9288.0	9339.4	9110.9	8871.8	8639.8	8597.3	8707.1	8958.6	9927.4	10549.1	8591.9
32.5°	10295.8	10278.1	10024.8	9713.1	9381.9	9350.0	9436.8	9667.0	10458.8	11087.5	8808.0
35°	11516.1	11519.7	11160.1	10738.6	10267.5	10182.5	10327.7	10550.9	11250.5	11817.2	9149.9
37.5°	12784.3	12779.0	12465.5	11987.3	11344.3	11223.9	11390.4	11556.9	12240.6	12810.9	9681.2
40°	13673.4	13708.9	13561.8	13310.3	12701.1	12407.0	12554.0	12669.2	13317.4	13979.8	10380.8
42.5°	14178.2	14231.3	14263.2	14413.8	14093.2	13779.7	13726.6	13786.8	14279.2	15065.6	11037.9
45°	14286.3	14357.1	14589.1	15147.0	15271.0	15182.5	15008.9	14863.7	14996.5	15836.0	11468.3
47.5°	13809.8	13933.8	14429.7	15405.6	16130.0	16408.1	16215.1	15993.7	15410.9	16034.4	11424.0
50°	11921.7	12067.0	13184.6	14877.8	16252.2	17265.4	17283.1	16955.4	15361.4	15462.3	10867.9
52.5°	9438.6	9537.7	10177.1	12612.5	15053.2	17229.9	17938.4	17587.7	15122.2	14746.8	10171.8
55°	5641.2	5800.6	6397.5	8321.0	11726.9	15271.0	16780.1	16950.1	15005.3	14146.3	9697.2
57.5°	1904.0	1981.9	2552.3	3675.2	6911.1	11181.4	12965.0	13655.7	13622.1	13228.9	8770.8
60°	906.8	924.6	1039.7	1393.9	2766.6	5843.1	7674.5	8471.5	9197.7	9270.3	5457.0
62.5°	690.8	701.4	759.8	836.0	1112.3	2461.9	3517.5	4126.8	4408.4	3783.2	1987.3
65°	577.4	586.3	630.5	678.4	756.3	1066.2	1349.6	1556.9	1402.8	1092.8	947.6
67.5°	481.8	488.8	522.5	573.9	627.0	713.8	749.2	770.5	807.7	906.8	871.4
70°	377.3	384.3	419.8	464.0	515.4	536.7	570.3	591.6	666.0	793.5	789.9
72.5°	290.5	299.3	318.8	347.1	389.7	410.9	448.1	472.9	515.4	618.1	660.6
75°	212.5	217.9	235.6	244.4	249.7	244.4	281.6	310.0	366.6	405.6	416.2
77.5°	86.8	97.4	93.9	93.9	111.6	134.6	154.1	171.8	210.8	233.8	235.6
80°	35.4	39.0	46.1	51.4	62.0	79.7	92.1	99.2	116.9	131.1	141.7
82.5°	21.3	23.0	26.6	28.3	35.4	46.1	53.1	58.4	72.6	86.8	92.1
85°	10.6	10.6	12.4	14.2	17.7	21.3	24.8	28.3	37.2	46.1	51.4
87.5°	1.8	1.8	1.8	3.5	5.3	7.1	8.9	10.6	12.4	14.2	17.7
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°	6673.8	6673.8	6673.8	6673.8	6673.8	6673.8	6673.8	6673.8	6673.8	6673.8	6673.8
2.5°	6677.3	6581.7	6470.1	6381.5	6278.8	6202.6	6094.6	6027.3	5963.5	5910.4	5871.4
5°	6684.4	6523.2	6291.2	6085.7	5873.2	5671.3	5464.1	5295.8	5145.2	5019.5	5008.9
7.5°	6725.1	6493.1	6130.0	5770.5	5356.0	4955.7	4555.4	4229.6	3981.6	3852.3	3825.7
10°	6794.2	6489.6	5965.3	5391.4	4684.7	4040.0	3565.4	3317.4	3173.9	3122.6	3104.9
12.5°	6866.8	6480.7	5754.5	4856.5	3875.3	3310.3	3050.0	3019.8	3046.4	3050.0	3048.2
15°	6955.4	6475.4	5488.9	4229.6	3283.7	2972.0	2989.7	3053.5	3115.5	3129.7	3129.7
17.5°	7063.4	6463.0	5127.5	3616.7	2913.6	2906.5	3000.4	3085.4	3143.8	3154.5	3154.5
20°	7176.8	6431.1	4683.0	3117.3	2763.0	2865.8	2966.7	3032.2	3073.0	3087.1	3088.9
22.5°	7254.7	6346.1	4171.1	2747.1	2669.2	2787.8	2860.4	2927.7	2927.7	2892.3	2881.7
25°	7270.7	6163.7	3616.7	2493.8	2557.6	2667.4	2741.8	2702.8	2630.2	2601.8	2600.1
27.5°	7212.2	5898.0	3069.4	2313.1	2423.0	2532.8	2520.4	2463.7	2431.8	2403.5	2414.1
30°	7141.4	5579.2	2594.8	2164.4	2267.1	2375.1	2332.6	2313.1	2290.1	2258.2	2265.3
32.5°	7093.5	5223.2	2229.9	2049.2	2162.6	2180.3	2210.4	2208.6	2187.4	2127.2	2123.6
35°	7107.7	4863.6	1985.5	1955.4	2075.8	2068.7	2125.4	2114.8	1967.8	1884.5	1879.2
37.5°	7221.1	4518.3	1842.0	1881.0	1937.7	1981.9	2031.5	1904.0	1852.6	1799.5	1803.1
40°	7437.1	4197.7	1764.1	1840.2	1854.4	1919.9	1804.8	1803.1	1780.0	1732.2	1730.4
42.5°	7681.6	3926.7	1710.9	1820.8	1801.3	1813.7	1691.5	1705.6	1703.9	1673.8	1664.9
45°	7830.3	3676.9	1668.4	1748.1	1753.5	1629.5	1592.3	1608.2	1617.1	1601.1	1599.4
47.5°	7676.2	3390.0	1624.2	1636.6	1682.6	1546.2	1500.2	1502.0	1517.9	1519.7	1512.6
50°	7244.1	3069.4	1571.0	1540.9	1510.8	1459.4	1416.9	1408.1	1424.0	1440.0	1445.3
52.5°	6686.2	2763.0	1482.5	1436.4	1365.6	1365.6	1346.1	1317.7	1339.0	1360.3	1367.3
55°	6277.0	2536.3	1356.7	1305.4	1227.4	1254.0	1250.4	1225.6	1254.0	1269.9	1275.2
57.5°	5439.3	2038.6	1193.8	1177.8	1112.3	1144.2	1151.3	1119.4	1105.2	1108.8	1114.1
60°	3228.8	1316.0	1076.9	1075.1	1016.7	1053.8	1075.1	1043.2	1000.7	1006.0	1013.1
62.5°	1448.8	1006.0	929.9	922.8	921.0	968.8	991.9	961.7	901.5	906.8	913.9
65°	912.2	869.6	807.7	807.7	836.0	876.7	894.4	869.6	800.6	791.7	798.8
67.5°	846.6	809.4	745.7	733.3	747.4	781.1	782.9	735.0	694.3	687.2	687.2
70°	759.8	731.5	669.5	644.7	639.4	637.6	632.3	619.9	593.3	586.3	589.8
72.5°	628.8	609.3	570.3	543.7	529.6	527.8	506.6	495.9	472.9	469.4	467.6
75°	416.2	421.5	421.5	418.0	405.6	400.3	377.3	366.6	340.1	329.4	327.7
77.5°	246.2	251.5	258.6	260.4	258.6	258.6	237.3	224.9	198.4	184.2	180.7
80°	150.5	154.1	157.6	162.9	155.9	150.5	131.1	118.7	106.3	97.4	95.6
82.5°	97.4	101.0	102.7	106.3	102.7	95.6	79.7	72.6	63.8	56.7	54.9
85°	54.9	56.7	60.2	60.2	54.9	49.6	40.7	35.4	30.1	26.6	26.6
87.5°	19.5	19.5	19.5	21.3	17.7	15.9	10.6	7.1	5.3	5.3	5.3
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)