

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: P637803

Luminaire Tested: GWS-SA4D-750-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637803  
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-750-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) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

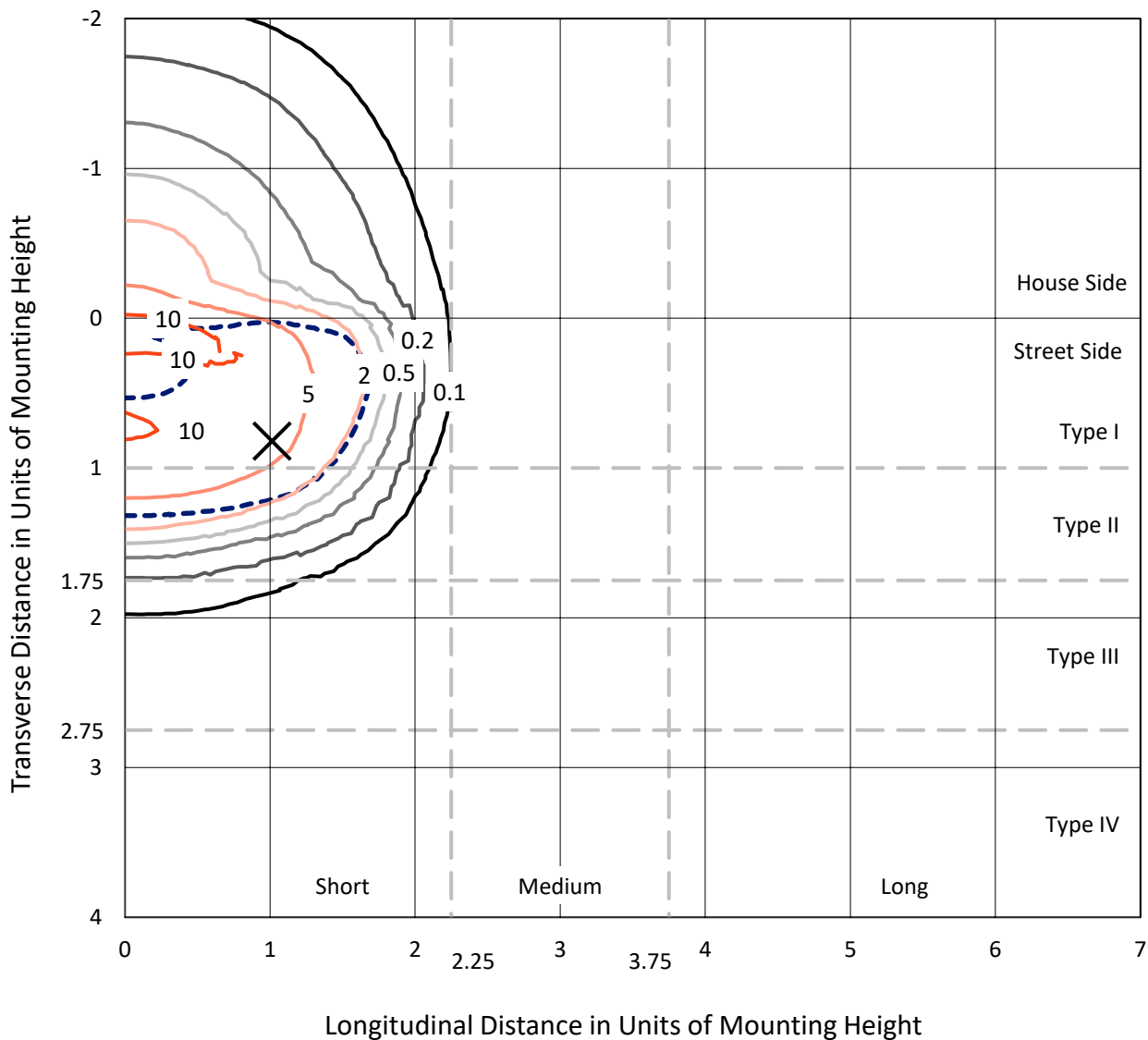
Lumens per Lamp: N/A  
Luminaire Lumens: 22725.5 lumens  
Efficiency: N/A  
Efficacy: 140.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

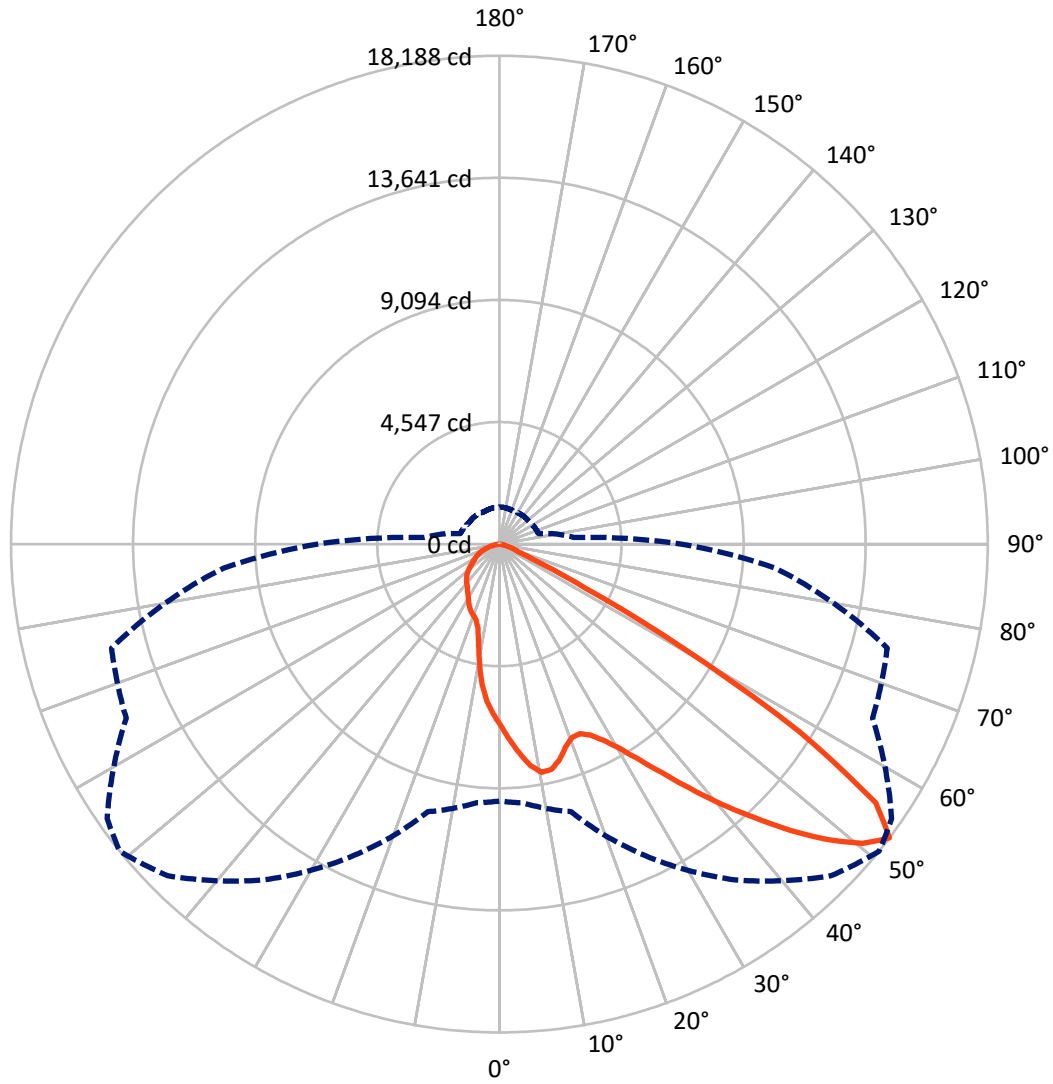
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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	4427.9	0.0	4427.9
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	18297.6	0.0	18297.6
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	22725.5	0.0	22725.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	631.4	2.8
10°-20°	1640.7	7.2
20°-30°	2667.6	11.7
30°-40°	4227.5	18.6
40°-50°	6376.0	28.1
50°-60°	5515.7	24.3
60°-70°	1250.5	5.5
70°-80°	368.7	1.6
80°-90°	47.5	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°	22725.5	100.0
0°-180°	22725.5	100.0

**Coefficient of Utilization**



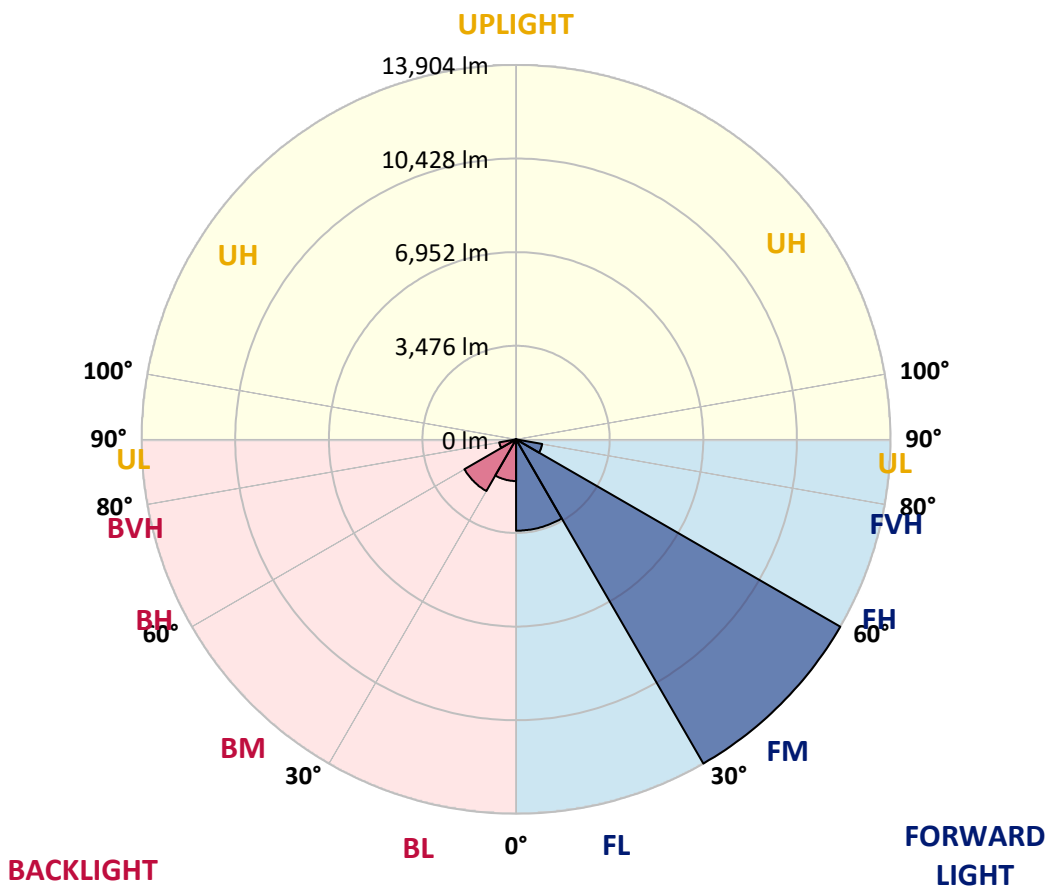
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3391.8	14.9			
FM (30°-60°)	13903.8	61.2			
FH (60°-80°)	984.1	4.3			G1/1800
FVH (80°-90°)	17.9	0.1			G1/100
BL (0°-30°)	1547.8	6.8	B3/2500		
BM (30°-60°)	2215.4	9.7	B2/2500		
BH (60°-80°)	635.1	2.8	B2/1000		G2/1000
BVH (80°-90°)	29.6	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°	6766.5	6766.5	6766.5	6766.5	6766.5	6766.5	6766.5	6766.5	6766.5	6766.5	6766.5
2.5°	7540.5	7583.6	7517.2	7492.0	7450.7	7378.9	7296.3	7272.9	7095.1	6978.4	6847.3
5°	8298.3	8321.7	8267.8	8213.9	8111.6	7984.1	7824.2	7790.1	7466.9	7199.3	6921.0
7.5°	8467.1	8458.1	8504.8	8535.4	8522.8	8472.5	8330.6	8264.2	7878.1	7454.3	7043.1
10°	7799.1	7748.8	7921.2	8125.9	8371.9	8655.7	8639.5	8634.1	8298.3	7797.3	7199.3
12.5°	6913.8	6888.6	7028.7	7285.5	7750.6	8379.1	8614.4	8797.5	8677.2	8124.1	7373.5
15°	6407.4	6398.4	6493.6	6678.5	7048.5	7842.2	8345.0	8707.8	9002.3	8474.3	7558.5
17.5°	6315.8	6321.2	6353.5	6459.4	6725.2	7378.9	7960.7	8467.1	9255.5	8858.6	7790.1
20°	6583.3	6619.3	6563.6	6579.8	6723.4	7211.9	7698.5	8224.7	9417.1	9244.7	8039.7
22.5°	7177.7	7165.2	7043.1	6971.2	6973.0	7314.2	7669.8	8111.6	9523.0	9620.0	8266.0
25°	7851.2	7836.8	7691.3	7531.5	7431.0	7592.6	7876.3	8231.9	9618.2	9963.0	8447.4
27.5°	8646.7	8601.8	8440.2	8235.5	8012.8	8082.8	8275.0	8556.9	9765.5	10300.6	8567.7
30°	9417.1	9469.2	9237.5	8995.1	8759.8	8716.7	8828.1	9083.1	10065.4	10695.7	8711.3
32.5°	10438.9	10420.9	10164.1	9848.1	9512.3	9479.9	9567.9	9801.4	10604.1	11241.6	8930.4
35°	11676.2	11679.8	11315.2	10887.8	10410.2	10324.0	10471.2	10697.5	11406.8	11981.5	9277.0
37.5°	12962.0	12956.6	12638.7	12153.9	11502.0	11379.9	11548.7	11717.5	12410.7	12988.9	9815.8
40°	13863.5	13899.4	13750.3	13495.3	12877.6	12579.5	12728.5	12845.2	13502.5	14174.1	10525.1
42.5°	14375.3	14429.1	14461.5	14614.1	14289.1	13971.2	13917.3	13978.4	14477.6	15274.9	11191.3
45°	14484.8	14556.6	14791.9	15357.5	15483.3	15393.5	15217.5	15070.2	15204.9	16056.1	11627.7
47.5°	14001.7	14127.4	14630.3	15619.7	16354.2	16636.1	16440.4	16215.9	15625.1	16257.2	11582.8
50°	12087.4	12234.7	13367.8	15084.6	16478.1	17505.3	17523.3	17191.0	15574.8	15677.2	11018.9
52.5°	9569.7	9670.3	10318.6	12787.8	15262.4	17469.4	18187.7	17832.1	15332.4	14951.7	10313.2
55°	5719.6	5881.2	6486.4	8436.6	11889.9	15483.3	17013.3	17185.7	15213.9	14342.9	9831.9
57.5°	1930.5	2009.5	2587.7	3726.3	7007.2	11336.8	13145.1	13845.5	13811.4	13412.7	8892.7
60°	919.4	937.4	1054.1	1413.3	2805.0	5924.3	7781.1	8589.2	9325.5	9399.1	5532.8
62.5°	700.4	711.1	770.4	847.6	1127.8	2496.1	3566.4	4184.2	4469.7	3835.8	2014.9
65°	585.4	594.4	639.3	687.8	766.8	1081.1	1368.4	1578.5	1422.3	1108.0	960.7
67.5°	488.5	495.6	529.8	581.8	635.7	723.7	759.6	781.2	818.9	919.4	883.5
70°	382.5	389.7	425.6	470.5	522.6	544.1	578.2	599.8	675.2	804.5	800.9
72.5°	294.5	303.5	323.2	352.0	395.1	416.6	454.3	479.5	522.6	626.7	669.8
75°	215.5	220.9	238.8	247.8	253.2	247.8	285.5	314.3	371.7	411.2	422.0
77.5°	88.0	98.8	95.2	95.2	113.1	136.5	156.2	174.2	213.7	237.0	238.8
80°	35.9	39.5	46.7	52.1	62.9	80.8	93.4	100.6	118.5	132.9	143.7
82.5°	21.5	23.3	26.9	28.7	35.9	46.7	53.9	59.3	73.6	88.0	93.4
85°	10.8	10.8	12.6	14.4	18.0	21.5	25.1	28.7	37.7	46.7	52.1
87.5°	1.8	1.8	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4	18.0
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°	6766.5	6766.5	6766.5	6766.5	6766.5	6766.5	6766.5	6766.5	6766.5	6766.5	6766.5
2.5°	6770.1	6673.1	6560.0	6470.2	6366.1	6288.8	6179.3	6111.1	6046.4	5992.5	5953.0
5°	6777.3	6613.9	6378.6	6170.3	5954.8	5750.1	5540.0	5369.4	5216.8	5089.3	5078.5
7.5°	6818.6	6583.3	6215.2	5850.7	5430.5	5024.6	4618.8	4288.3	4036.9	3905.8	3878.9
10°	6888.6	6579.8	6048.2	5466.4	4749.8	4096.2	3614.9	3363.5	3218.0	3166.0	3148.0
12.5°	6962.3	6570.8	5834.5	4924.0	3929.2	3356.3	3092.3	3061.8	3088.7	3092.3	3090.5
15°	7052.0	6565.4	5565.1	4288.3	3329.4	3013.3	3031.3	3095.9	3158.8	3173.2	3173.2
17.5°	7161.6	6552.8	5198.8	3667.0	2954.1	2946.9	3042.1	3128.3	3187.5	3198.3	3198.3
20°	7276.5	6520.5	4748.1	3160.6	2801.4	2905.6	3007.9	3074.4	3115.7	3130.1	3131.8
22.5°	7355.5	6434.3	4229.1	2785.3	2706.2	2826.6	2900.2	2968.4	2968.4	2932.5	2921.7
25°	7371.7	6249.3	3667.0	2528.5	2593.1	2704.5	2779.9	2740.4	2666.7	2638.0	2636.2
27.5°	7312.4	5980.0	3112.1	2345.3	2456.6	2568.0	2555.4	2497.9	2465.6	2436.9	2447.7
30°	7240.6	5656.7	2630.8	2194.4	2298.6	2408.1	2365.0	2345.3	2321.9	2289.6	2296.8
32.5°	7192.1	5295.8	2260.9	2077.7	2192.7	2210.6	2241.1	2239.3	2217.8	2156.7	2153.1
35°	7206.5	4931.2	2013.1	1982.5	2104.7	2097.5	2154.9	2144.2	1995.1	1910.7	1905.3
37.5°	7321.4	4581.0	1867.6	1907.1	1964.6	2009.5	2059.8	1930.5	1878.4	1824.5	1828.1
40°	7540.5	4256.0	1788.6	1865.8	1880.2	1946.6	1829.9	1828.1	1804.8	1756.3	1754.5
42.5°	7788.3	3981.3	1734.7	1846.1	1826.3	1838.9	1715.0	1729.3	1727.5	1697.0	1688.0
45°	7939.2	3728.0	1691.6	1772.4	1777.8	1652.1	1614.4	1630.6	1639.6	1623.4	1621.6
47.5°	7782.9	3437.1	1646.7	1659.3	1706.0	1567.7	1521.0	1522.8	1539.0	1540.8	1533.6
50°	7344.8	3112.1	1592.9	1562.3	1531.8	1479.7	1436.6	1427.6	1443.8	1460.0	1465.4
52.5°	6779.1	2801.4	1503.1	1456.4	1384.5	1384.5	1364.8	1336.1	1357.6	1379.2	1386.3
55°	6364.3	2571.6	1375.6	1323.5	1244.5	1271.4	1267.8	1242.7	1271.4	1287.6	1293.0
57.5°	5514.9	2066.9	1210.4	1194.2	1127.8	1160.1	1167.3	1134.9	1120.6	1124.2	1129.5
60°	3273.7	1334.3	1091.8	1090.0	1030.8	1068.5	1090.0	1057.7	1014.6	1020.0	1027.2
62.5°	1469.0	1020.0	942.8	935.6	933.8	982.3	1005.6	975.1	914.1	919.4	926.6
65°	924.8	881.7	818.9	818.9	847.6	888.9	906.9	881.7	811.7	802.7	809.9
67.5°	858.4	820.7	756.0	743.5	757.8	791.9	793.7	745.3	703.9	696.8	696.8
70°	770.4	741.7	678.8	653.7	648.3	646.5	641.1	628.5	601.6	594.4	598.0
72.5°	637.5	617.7	578.2	551.3	536.9	535.1	513.6	502.8	479.5	475.9	474.1
75°	422.0	427.4	427.4	423.8	411.2	405.8	382.5	371.7	344.8	334.0	332.2
77.5°	249.6	255.0	262.2	264.0	262.2	262.2	240.6	228.1	201.1	186.8	183.2
80°	152.6	156.2	159.8	165.2	158.0	152.6	132.9	120.3	107.7	98.8	97.0
82.5°	98.8	102.4	104.2	107.7	104.2	97.0	80.8	73.6	64.6	57.5	55.7
85°	55.7	57.5	61.1	61.1	55.7	50.3	41.3	35.9	30.5	26.9	26.9
87.5°	19.8	19.8	19.8	21.5	18.0	16.2	10.8	7.2	5.4	5.4	5.4
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)