

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: P630903

Luminaire Tested: GWS-SA1E-750-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630903  
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-SA1E-750-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

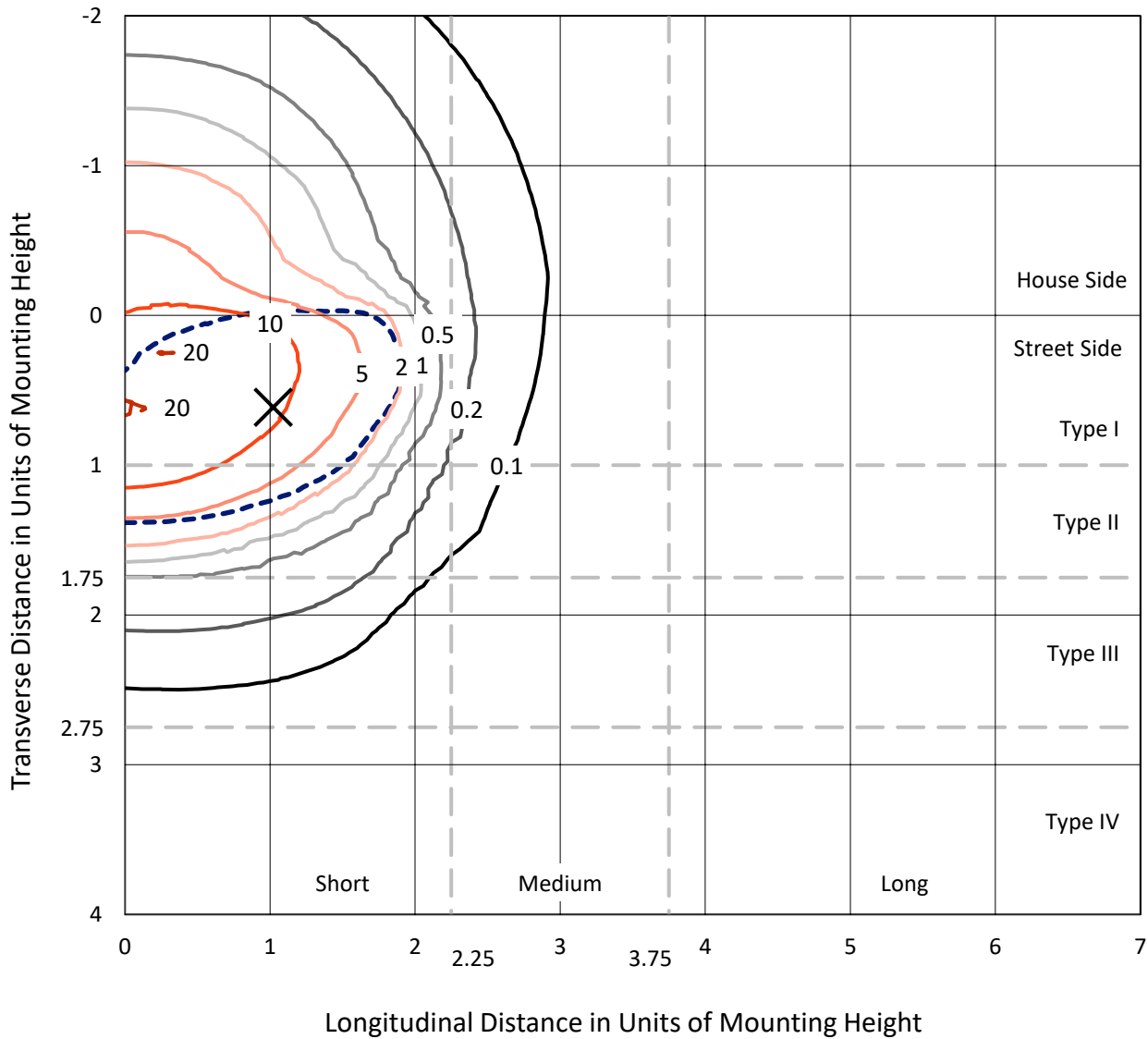
Lumens per Lamp: N/A  
Luminaire Lumens: 6821.9 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

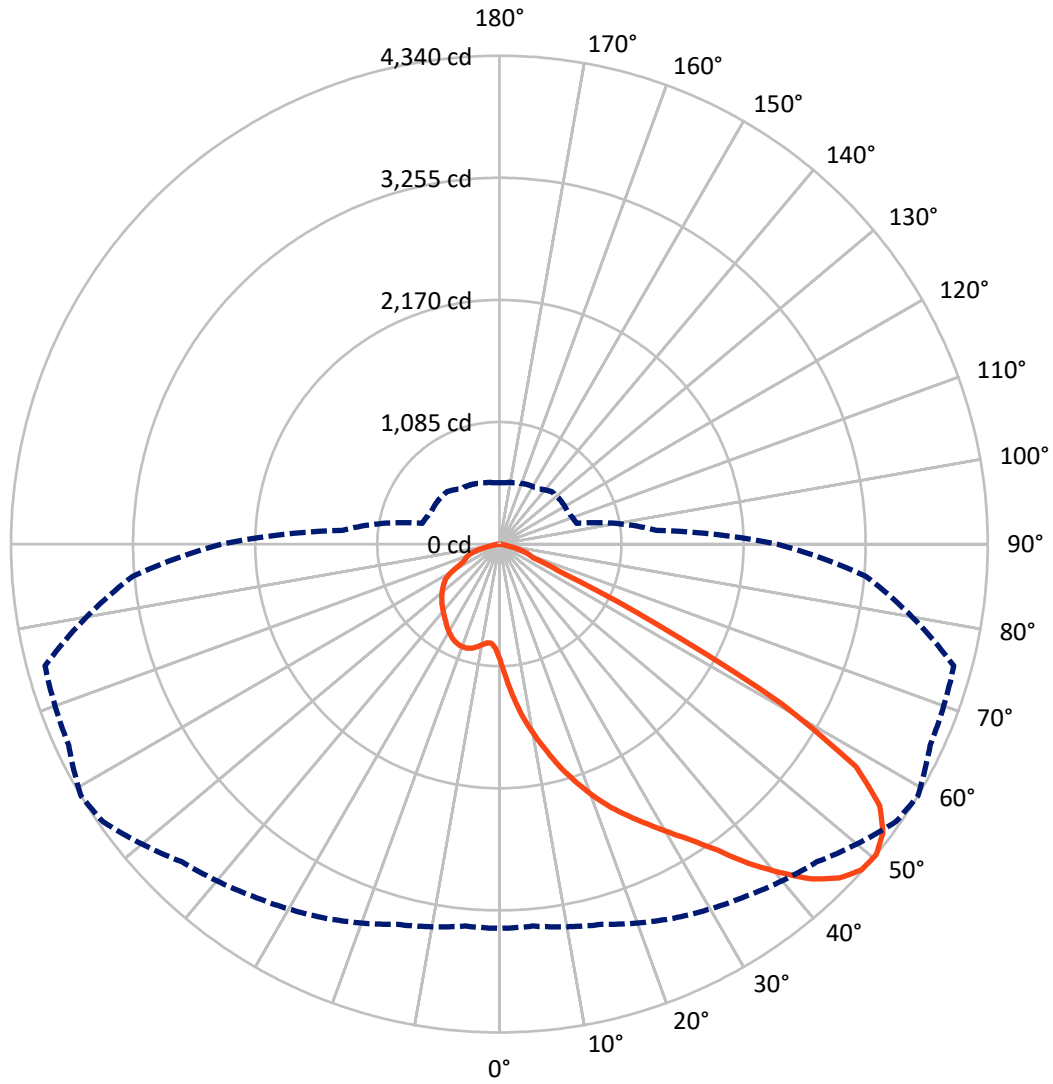
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.4 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	1569.2	0.0	1569.2
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	5252.7	0.0	5252.7
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	6821.9	0.0	6821.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.9	1.7
10°-20°	420.9	6.2
20°-30°	797.0	11.7
30°-40°	1321.7	19.4
40°-50°	1805.6	26.5
50°-60°	1639.0	24.0
60°-70°	545.8	8.0
70°-80°	159.2	2.3
80°-90°	16.7	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°	6821.9	100.0
0°-180°	6821.9	100.0

**Coefficient of Utilization**



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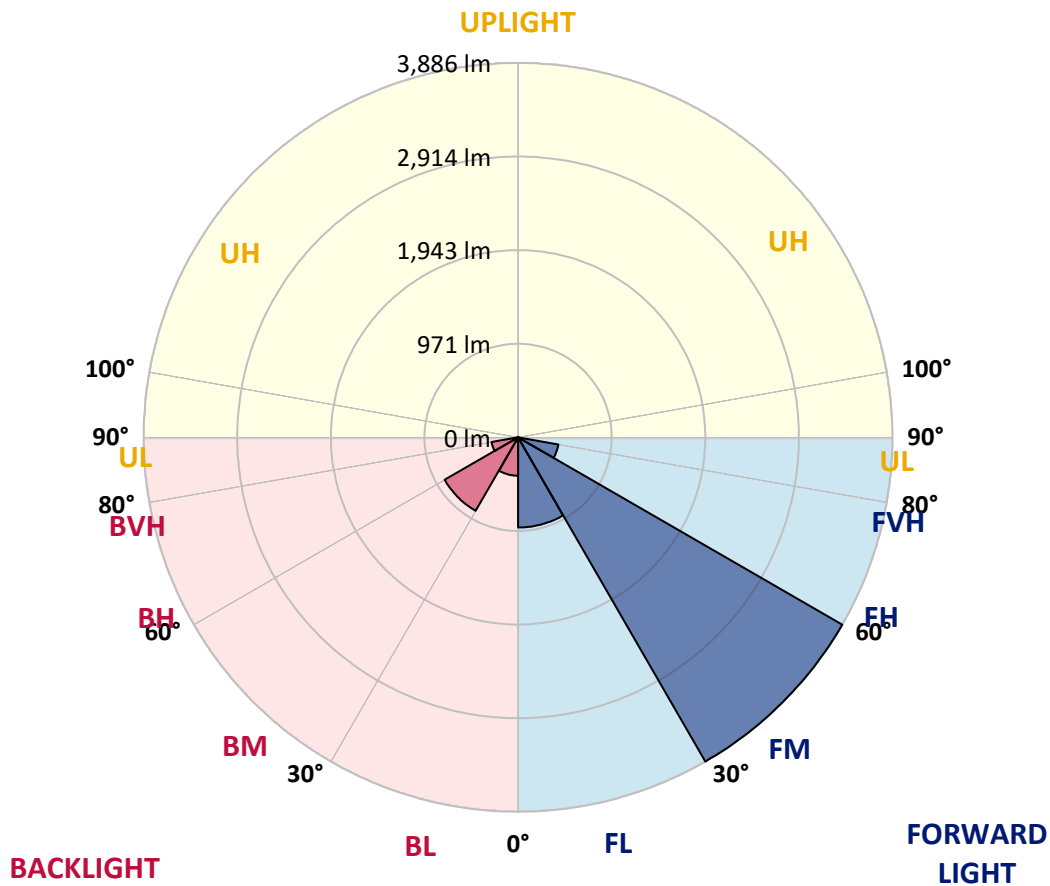
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	935.4	13.7			
FM (30°-60°)	3885.8	57.0			
FH (60°-80°)	424.9	6.2			G0/660
FVH (80°-90°)	6.5	0.1			G0/10
BL (0°-30°)	398.4	5.8	B1/500		
BM (30°-60°)	880.5	12.9	B1/1000		
BH (60°-80°)	280.1	4.1	B1/500		G1/500
BVH (80°-90°)	10.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1033.6	1033.6	1033.6	1033.6	1033.6	1033.6	1033.6	1033.6	1033.6	1033.6	1033.6
2.5°	1339.2	1349.2	1333.6	1334.7	1295.8	1278.1	1228.1	1198.6	1179.2	1124.7	1075.2
5°	1609.3	1597.6	1585.4	1578.1	1544.2	1496.4	1434.2	1384.8	1339.2	1232.5	1129.7
7.5°	1774.8	1768.7	1760.4	1756.0	1722.6	1672.6	1610.4	1568.1	1502.0	1357.5	1195.8
10°	1915.4	1908.2	1903.2	1906.5	1879.3	1847.1	1779.3	1730.9	1656.5	1489.8	1275.8
12.5°	2024.3	2028.2	2029.9	2047.7	2036.0	2016.6	1946.5	1895.4	1812.6	1629.3	1369.8
15°	2110.5	2109.4	2128.8	2162.7	2181.6	2169.4	2113.3	2070.5	1969.3	1766.5	1470.9
17.5°	2130.5	2131.6	2162.2	2221.6	2283.3	2313.3	2281.6	2230.5	2130.5	1902.1	1575.9
20°	2146.6	2148.8	2180.5	2248.3	2338.3	2422.2	2427.2	2390.5	2304.4	2048.8	1682.6
22.5°	2248.3	2253.3	2261.6	2304.4	2385.5	2491.7	2550.0	2542.2	2470.0	2202.7	1797.6
25°	2515.6	2500.6	2460.0	2447.8	2478.9	2565.0	2664.5	2679.5	2643.9	2372.2	1921.5
27.5°	2845.6	2829.5	2769.5	2706.2	2638.9	2668.9	2775.1	2820.1	2820.6	2558.9	2046.0
30°	3145.2	3132.4	3083.5	2992.9	2876.8	2833.4	2911.8	2972.3	3008.5	2774.5	2187.7
32.5°	3401.3	3389.7	3323.5	3249.6	3136.3	3049.0	3077.4	3135.7	3220.2	3053.5	2363.9
35°	3616.9	3605.3	3541.9	3467.4	3362.4	3310.2	3300.2	3340.2	3449.7	3344.6	2566.1
37.5°	3792.0	3780.3	3714.2	3644.2	3564.1	3567.5	3582.5	3601.9	3664.7	3656.4	2782.3
40°	3905.3	3893.1	3845.9	3795.9	3745.3	3785.3	3859.8	3836.4	3869.8	3908.1	2981.2
42.5°	3955.9	3940.3	3913.1	3902.0	3886.4	3948.7	4092.0	4068.7	4028.7	4075.9	3129.0
45°	3905.3	3892.0	3891.4	3925.3	3961.4	4041.5	4252.6	4233.7	4132.6	4157.0	3217.4
47.5°	3750.3	3738.6	3770.3	3859.2	3948.1	4064.8	4324.3	4327.6	4206.5	4190.9	3274.6
50°	3415.2	3407.4	3499.1	3667.5	3820.9	3992.0	4301.5	4339.9	4224.3	4180.4	3267.4
52.5°	2733.9	2770.1	2969.6	3250.7	3548.6	3864.2	4217.1	4267.1	4138.7	4110.9	3228.5
55°	1871.5	1888.2	2087.7	2498.3	2970.7	3587.5	4023.1	4100.4	4037.6	4099.3	3269.1
57.5°	969.1	982.4	1139.7	1504.2	2014.9	2835.1	3484.7	3738.1	3833.6	4158.2	3395.2
60°	397.9	409.0	474.0	650.1	1016.3	1650.9	2507.8	2883.4	3107.9	3797.5	3015.1
62.5°	289.0	294.5	325.6	387.9	532.3	809.1	1419.2	1557.6	1715.4	2380.0	1914.3
65°	243.4	249.5	274.5	312.3	388.4	496.2	606.2	609.6	671.8	969.7	709.6
67.5°	203.9	209.5	231.7	263.9	314.0	352.3	325.6	326.2	325.1	351.7	340.1
70°	158.9	163.4	185.6	220.0	246.2	226.2	254.5	281.7	270.1	280.6	296.7
72.5°	116.1	121.1	140.6	166.7	160.0	161.1	206.2	233.9	227.3	238.9	253.9
75°	83.9	87.2	97.2	83.4	87.8	106.1	145.0	160.0	166.7	176.7	190.0
77.5°	27.2	27.2	30.6	38.3	47.8	58.9	73.9	80.0	90.0	101.1	110.6
80°	13.9	14.4	17.2	21.1	26.7	33.9	43.3	46.1	51.1	57.2	61.1
82.5°	6.7	7.2	8.3	10.6	13.9	17.8	23.9	26.7	30.0	33.9	36.7
85°	1.7	1.7	2.2	3.3	4.4	6.7	8.9	10.6	13.3	16.1	17.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	1.7	2.2	2.8	3.3	4.4
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°	1033.6	1033.6	1033.6	1033.6	1033.6	1033.6	1033.6	1033.6	1033.6	1033.6	1033.6
2.5°	1053.0	1021.9	981.9	948.0	916.9	893.0	872.4	862.4	853.0	846.3	848.5
5°	1081.9	1028.6	954.1	902.4	870.8	854.6	843.5	838.0	836.9	832.4	830.7
7.5°	1124.1	1048.0	948.5	896.3	875.2	866.9	860.7	857.4	859.1	854.6	853.0
10°	1176.4	1080.2	962.4	916.3	898.0	891.9	885.2	880.8	878.5	871.9	870.8
12.5°	1241.4	1120.3	987.4	941.9	923.5	913.0	904.1	896.3	891.3	883.0	880.8
15°	1311.4	1164.7	1016.9	966.9	945.2	929.7	915.2	903.5	894.6	883.5	881.9
17.5°	1387.5	1211.4	1041.3	984.1	956.3	935.8	914.7	897.4	885.2	870.8	869.1
20°	1467.0	1258.6	1059.7	992.4	956.9	929.1	900.8	878.0	862.4	848.0	846.9
22.5°	1549.2	1302.0	1070.8	990.2	948.0	913.5	879.6	854.1	835.7	818.5	817.4
25°	1632.0	1343.6	1073.6	981.3	930.2	890.2	856.3	826.3	805.7	786.3	784.1
27.5°	1715.9	1378.6	1066.9	963.6	906.3	863.0	829.1	799.6	778.5	759.1	755.7
30°	1805.4	1408.7	1052.5	940.2	878.5	834.1	800.7	778.5	758.5	739.1	735.7
32.5°	1901.0	1434.8	1031.9	911.9	846.3	805.2	780.7	760.7	740.7	723.5	720.2
35°	2014.9	1452.0	1001.3	875.2	816.3	784.1	767.4	744.1	719.6	700.7	699.0
37.5°	2132.7	1465.3	964.7	840.2	790.2	771.8	757.9	726.3	695.7	672.9	670.2
40°	2246.6	1476.4	919.1	807.4	766.3	762.9	744.1	704.6	651.8	626.3	624.0
42.5°	2352.8	1479.8	871.3	772.4	744.6	742.9	721.8	660.7	620.1	604.0	601.8
45°	2425.5	1477.0	821.9	739.6	722.9	714.0	691.8	629.0	604.0	589.6	586.8
47.5°	2479.4	1462.6	766.3	705.2	698.5	686.3	638.5	609.0	585.7	571.2	568.5
50°	2470.0	1402.5	710.2	671.8	669.0	658.5	599.6	584.0	563.5	547.9	545.7
52.5°	2421.1	1288.6	652.9	635.1	640.7	620.1	571.8	554.0	536.2	518.5	514.6
55°	2433.3	1206.4	609.6	599.6	609.6	562.9	540.7	521.8	505.1	487.9	484.6
57.5°	2486.7	1125.3	563.5	561.2	571.8	519.0	500.7	476.8	452.9	439.0	439.0
60°	2088.2	820.2	482.3	487.9	511.8	483.4	467.3	442.9	416.8	404.5	404.5
62.5°	1234.7	514.6	400.1	394.0	409.0	426.8	435.7	415.6	384.5	368.4	369.0
65°	544.0	374.5	352.9	347.9	343.4	355.6	380.1	381.8	349.0	330.1	330.6
67.5°	335.1	339.0	330.1	326.2	322.3	320.1	317.8	319.0	310.1	292.8	292.3
70°	302.3	312.8	306.7	303.4	298.4	294.5	281.2	259.5	244.5	240.1	245.1
72.5°	260.1	274.5	271.2	269.5	263.4	253.9	236.2	215.0	197.3	186.2	188.4
75°	196.2	207.8	209.5	210.0	203.4	194.5	176.2	158.4	142.8	131.1	133.9
77.5°	112.8	119.5	121.1	122.8	117.8	114.5	102.2	89.5	81.1	68.9	72.2
80°	62.8	65.6	65.6	66.1	63.3	59.5	51.1	43.9	40.0	34.5	35.0
82.5°	37.8	38.9	39.5	40.0	38.3	34.5	28.3	23.3	21.1	18.3	17.8
85°	18.3	19.4	19.4	20.0	17.2	15.0	11.7	8.9	7.8	5.6	6.1
87.5°	4.4	5.0	5.0	4.4	3.9	2.8	1.7	0.6	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)