

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: P631292

Luminaire Tested: GWS-SA1F-735-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-735-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7092.2 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

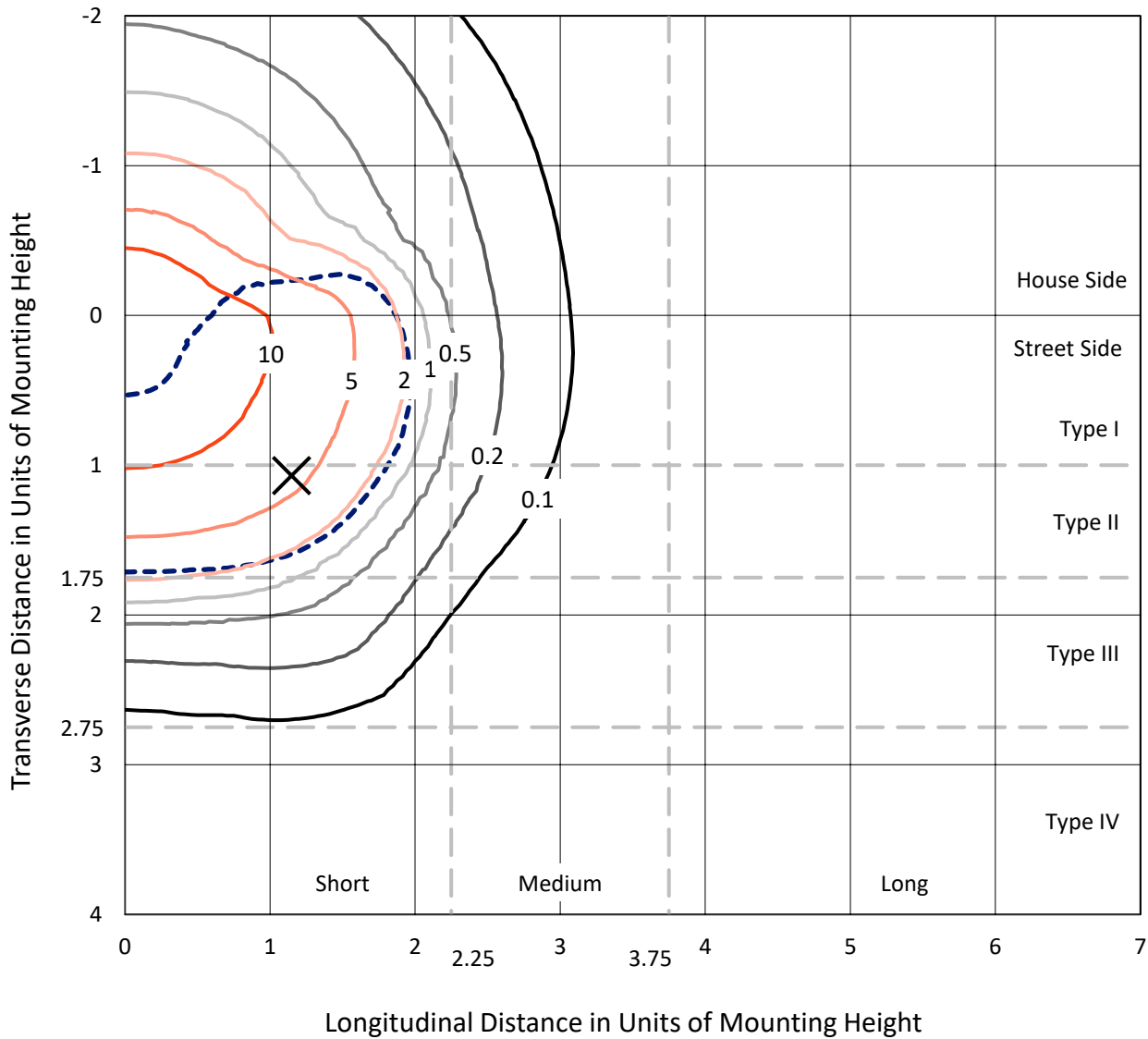
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

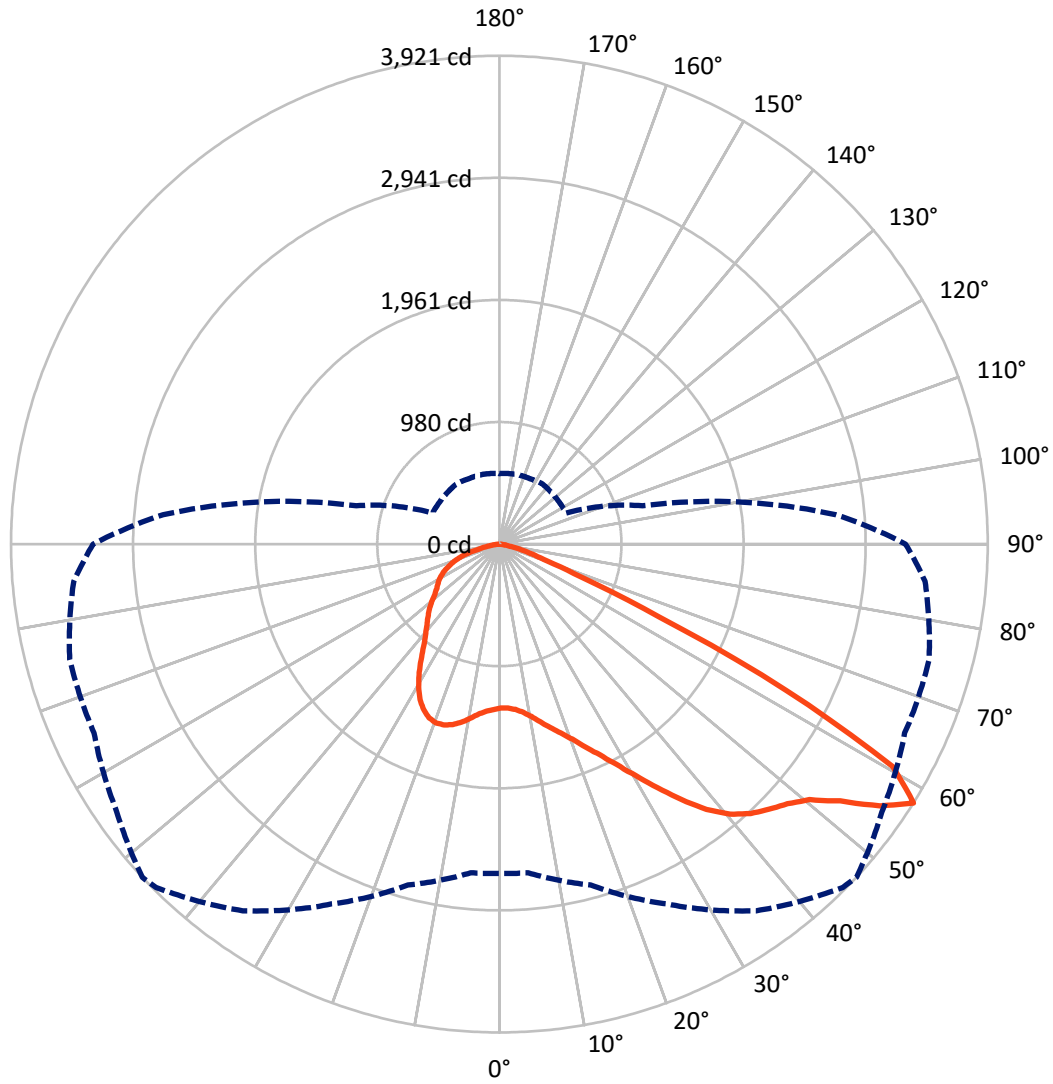
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2244.7	0.0	2244.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	4847.5	0.0	4847.5
	% Fixture	68.4	0.0	68.4
Total	Lumens	7092.2	0.0	7092.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.7	1.8
10°-20°	426.7	6.0
20°-30°	768.3	10.8
30°-40°	1160.4	16.4
40°-50°	1562.6	22.0
50°-60°	1877.7	26.5
60°-70°	914.5	12.9
70°-80°	225.3	3.2
80°-90°	27.1	0.4
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°	7092.2	100.0
0°-180°	7092.2	100.0

Coefficient of Utilization



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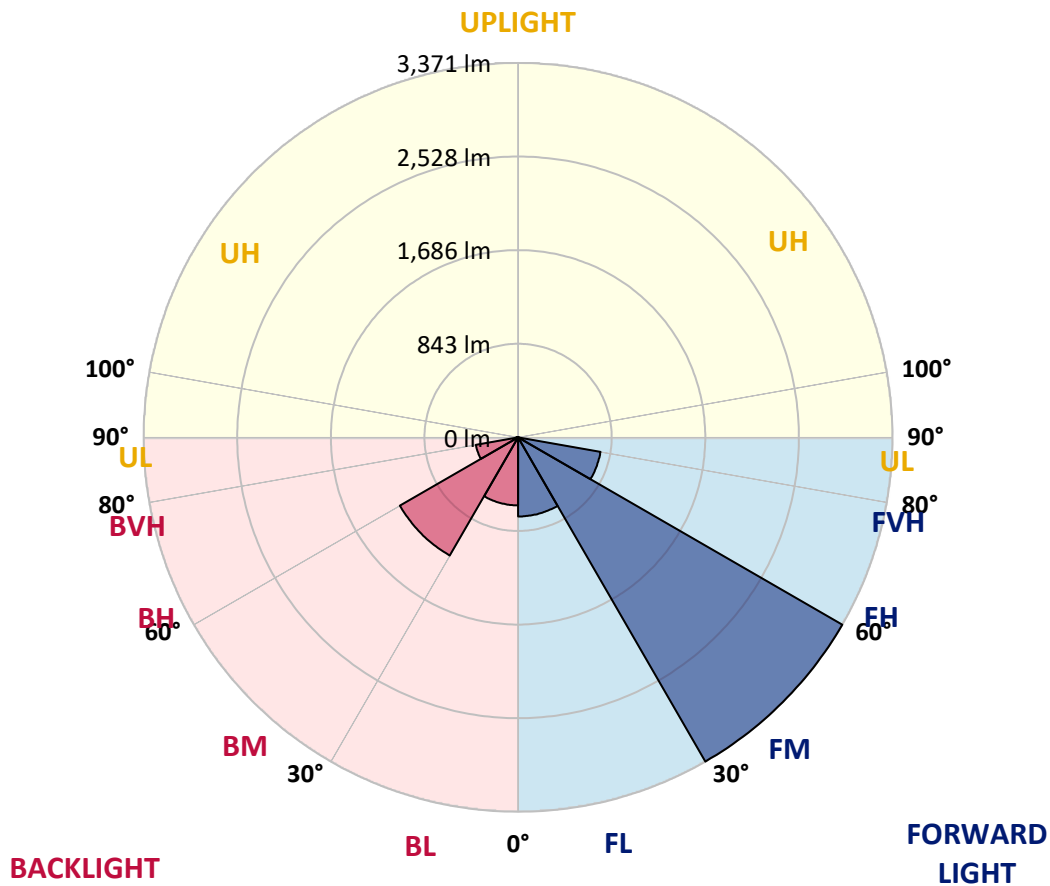
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	712.4	10.0			
FM (30°-60°)	3371.3	47.5			
FH (60°-80°)	753.7	10.6			G1/1800
FVH (80°-90°)	10.2	0.1			G1/100
BL (0°-30°)	612.3	8.6	B2/1000		
BM (30°-60°)	1229.4	17.3	B2/2500		
BH (60°-80°)	386.1	5.4	B1/500		G1/500
BVH (80°-90°)	16.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3
2.5°	1312.9	1312.3	1312.3	1315.9	1315.9	1317.0	1318.8	1320.6	1321.2	1318.2	1311.7
5°	1327.2	1327.2	1327.2	1330.2	1330.2	1331.3	1333.7	1334.3	1333.7	1329.0	1322.4
7.5°	1349.8	1349.8	1350.4	1354.0	1357.0	1358.7	1362.9	1362.3	1360.5	1352.8	1344.4
10°	1386.7	1388.5	1390.3	1394.5	1400.4	1404.6	1407.6	1407.6	1405.2	1393.3	1382.6
12.5°	1439.2	1441.5	1443.3	1446.9	1451.7	1458.8	1465.4	1465.4	1462.4	1447.5	1431.4
15°	1500.5	1502.9	1502.3	1503.5	1512.4	1522.6	1527.9	1531.5	1532.7	1511.8	1486.8
17.5°	1570.8	1573.2	1570.8	1567.2	1568.4	1584.5	1594.0	1607.1	1614.9	1586.9	1547.0
20°	1634.5	1632.2	1632.2	1634.5	1638.1	1657.8	1672.1	1693.5	1703.0	1669.1	1607.1
22.5°	1701.9	1707.2	1704.8	1704.8	1719.1	1751.9	1769.2	1797.2	1807.3	1763.2	1679.8
25°	1788.8	1793.6	1792.4	1793.6	1810.3	1856.7	1874.0	1925.8	1936.0	1872.8	1760.2
27.5°	1884.1	1891.9	1895.4	1894.3	1921.1	1981.8	2003.3	2075.3	2093.8	1995.5	1846.0
30°	2008.0	2016.4	2019.4	2018.2	2049.7	2132.5	2157.0	2239.2	2265.4	2140.9	1955.0
32.5°	2151.6	2159.9	2168.9	2172.4	2212.9	2297.5	2332.7	2417.9	2455.4	2308.9	2086.7
35°	2294.0	2301.1	2318.4	2346.4	2401.8	2488.2	2519.1	2603.1	2639.5	2483.4	2245.7
37.5°	2451.2	2456.0	2470.9	2509.6	2589.4	2671.6	2702.6	2783.0	2787.2	2652.0	2425.6
40°	2623.4	2623.4	2620.4	2658.5	2741.9	2824.7	2851.5	2898.0	2873.6	2781.8	2600.7
42.5°	2769.3	2766.9	2769.3	2805.1	2867.0	2934.3	2957.5	2948.6	2917.6	2881.3	2759.2
45°	2901.0	2902.7	2924.2	2951.6	2983.8	3023.7	3037.4	2986.7	2958.7	2961.1	2886.1
47.5°	2990.3	2992.1	3042.1	3088.0	3107.7	3120.2	3114.2	3043.9	3029.6	3056.4	2983.8
50°	3002.2	3011.8	3098.1	3192.2	3241.1	3242.9	3226.2	3140.4	3136.2	3166.6	3036.2
52.5°	3004.6	3014.1	3122.0	3291.7	3418.6	3445.4	3426.3	3337.0	3293.5	3263.1	3100.5
55°	2995.7	3006.4	3125.5	3358.4	3601.5	3708.7	3710.5	3584.2	3445.4	3425.2	3284.0
57.5°	2644.8	2649.0	2833.6	3188.7	3594.3	3898.1	3921.4	3749.8	3591.3	3572.3	3431.1
60°	1842.4	1859.1	2059.9	2528.7	3019.5	3555.0	3630.1	3580.0	3474.0	3335.2	2943.8
62.5°	922.7	937.0	1138.3	1581.5	2082.5	2505.4	2585.8	2638.9	2663.9	2515.0	2004.5
65°	397.3	408.0	533.1	826.2	1178.8	1383.2	1411.2	1474.9	1631.0	1455.2	1080.0
67.5°	265.7	272.8	336.6	503.9	694.6	707.7	703.5	717.2	751.2	620.1	487.9
70°	203.7	209.7	252.6	369.3	499.2	427.1	404.5	366.9	398.5	406.3	395.5
72.5°	147.7	152.5	184.7	252.0	312.7	272.8	269.2	288.3	331.2	343.1	336.6
75°	95.3	97.7	117.3	138.2	161.4	175.1	182.3	216.8	260.3	269.2	261.5
77.5°	63.7	65.5	76.8	88.8	91.7	92.3	94.7	110.2	140.0	156.7	154.9
80°	33.4	33.4	37.5	37.5	42.9	51.2	53.6	63.7	77.4	85.8	86.4
82.5°	13.1	13.7	16.1	17.9	21.4	26.2	28.0	33.4	40.5	46.5	51.8
85°	5.4	6.0	6.6	7.7	9.5	11.9	12.5	14.3	19.1	23.8	26.8
87.5°	0.0	0.0	0.6	0.6	1.2	1.8	1.8	2.4	3.0	5.4	7.1
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°	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3
2.5°	1319.4	1311.7	1319.4	1321.8	1328.4	1330.7	1326.6	1326.0	1326.0	1320.0	1318.2
5°	1328.4	1321.2	1329.0	1332.5	1342.1	1348.0	1349.2	1354.0	1357.0	1354.6	1354.0
7.5°	1350.4	1341.5	1349.8	1355.2	1367.7	1377.2	1381.4	1392.1	1399.8	1398.7	1398.1
10°	1389.1	1377.2	1386.7	1395.7	1409.4	1420.7	1421.3	1427.2	1435.0	1432.6	1431.4
12.5°	1433.8	1422.5	1433.2	1442.1	1458.2	1463.0	1455.2	1452.9	1454.1	1451.1	1448.7
15°	1488.6	1472.5	1482.0	1492.2	1501.1	1495.7	1479.1	1472.5	1471.9	1467.8	1465.4
17.5°	1543.4	1523.2	1530.3	1535.7	1531.5	1514.8	1494.0	1482.6	1477.3	1468.9	1466.6
20°	1597.6	1572.0	1570.8	1566.6	1547.6	1517.2	1489.2	1466.6	1452.9	1441.5	1437.4
22.5°	1659.6	1623.8	1605.9	1586.9	1545.2	1495.7	1453.5	1421.3	1399.2	1385.0	1380.2
25°	1726.3	1675.6	1638.7	1600.6	1521.4	1449.9	1390.9	1346.8	1320.6	1305.1	1299.8
27.5°	1792.4	1722.7	1667.3	1602.4	1473.7	1383.8	1304.5	1245.0	1218.8	1206.2	1202.1
30°	1881.7	1785.2	1701.3	1579.1	1411.2	1292.0	1193.1	1133.0	1115.7	1106.8	1103.2
32.5°	1984.8	1864.5	1746.5	1530.3	1331.3	1184.8	1080.6	1038.9	1027.0	1009.7	1009.1
35°	2120.6	1977.7	1789.4	1458.2	1230.7	1069.8	994.2	964.4	943.0	915.6	913.2
37.5°	2279.1	2118.8	1812.7	1366.5	1113.3	975.1	929.9	896.5	861.9	825.6	820.8
40°	2442.9	2283.8	1814.4	1258.1	998.4	912.6	874.5	831.0	788.1	747.6	742.2
42.5°	2615.0	2437.5	1782.9	1133.0	904.2	858.4	819.7	764.9	716.6	689.2	686.2
45°	2768.7	2561.4	1711.4	1001.3	834.5	813.1	763.7	704.7	679.1	659.4	655.2
47.5°	2889.6	2643.6	1614.9	883.4	778.0	766.6	702.3	671.9	652.3	634.4	630.2
50°	2949.2	2662.1	1489.2	787.5	725.5	711.8	667.8	644.5	631.4	617.1	613.5
52.5°	3023.1	2682.9	1380.8	707.1	674.3	655.8	639.2	620.7	611.2	602.2	599.3
55°	3192.8	2761.6	1323.6	642.7	625.5	617.1	614.7	599.3	596.3	590.3	585.0
57.5°	3261.9	2710.9	1188.4	590.3	586.7	587.9	593.9	579.6	576.6	569.5	565.9
60°	2623.4	2049.1	804.8	545.0	554.6	562.3	568.3	554.0	549.8	548.6	543.9
62.5°	1681.0	1260.5	561.7	502.8	517.0	526.6	530.2	516.5	513.5	523.0	523.6
65°	875.1	686.8	455.7	457.5	469.4	483.7	490.8	486.1	484.9	495.0	495.6
67.5°	446.8	420.0	397.3	403.9	413.4	431.9	448.5	469.4	476.5	477.7	478.3
70°	380.6	368.7	357.4	361.6	371.7	381.8	397.9	408.0	396.1	393.1	392.0
72.5°	324.0	315.1	309.8	314.5	319.9	318.1	313.3	318.1	319.9	320.5	321.1
75°	252.0	245.4	241.2	241.8	241.8	235.3	226.4	221.0	215.0	210.3	210.3
77.5°	154.3	155.5	159.6	159.0	158.5	156.1	147.1	142.4	128.1	123.9	123.9
80°	88.2	89.9	94.1	95.3	95.3	92.3	83.4	78.0	71.5	68.5	67.9
82.5°	53.6	56.0	58.4	59.6	60.2	56.6	48.8	44.7	41.1	38.1	38.1
85°	28.0	29.2	31.6	32.2	30.4	26.8	22.6	20.8	17.3	16.7	16.7
87.5°	7.7	8.3	9.5	7.7	7.1	5.4	3.0	2.4	1.2	0.6	0.6
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)