

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: P633323

Luminaire Tested: GWS-SA2E-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633323
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-SA2E-740-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12841.6 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

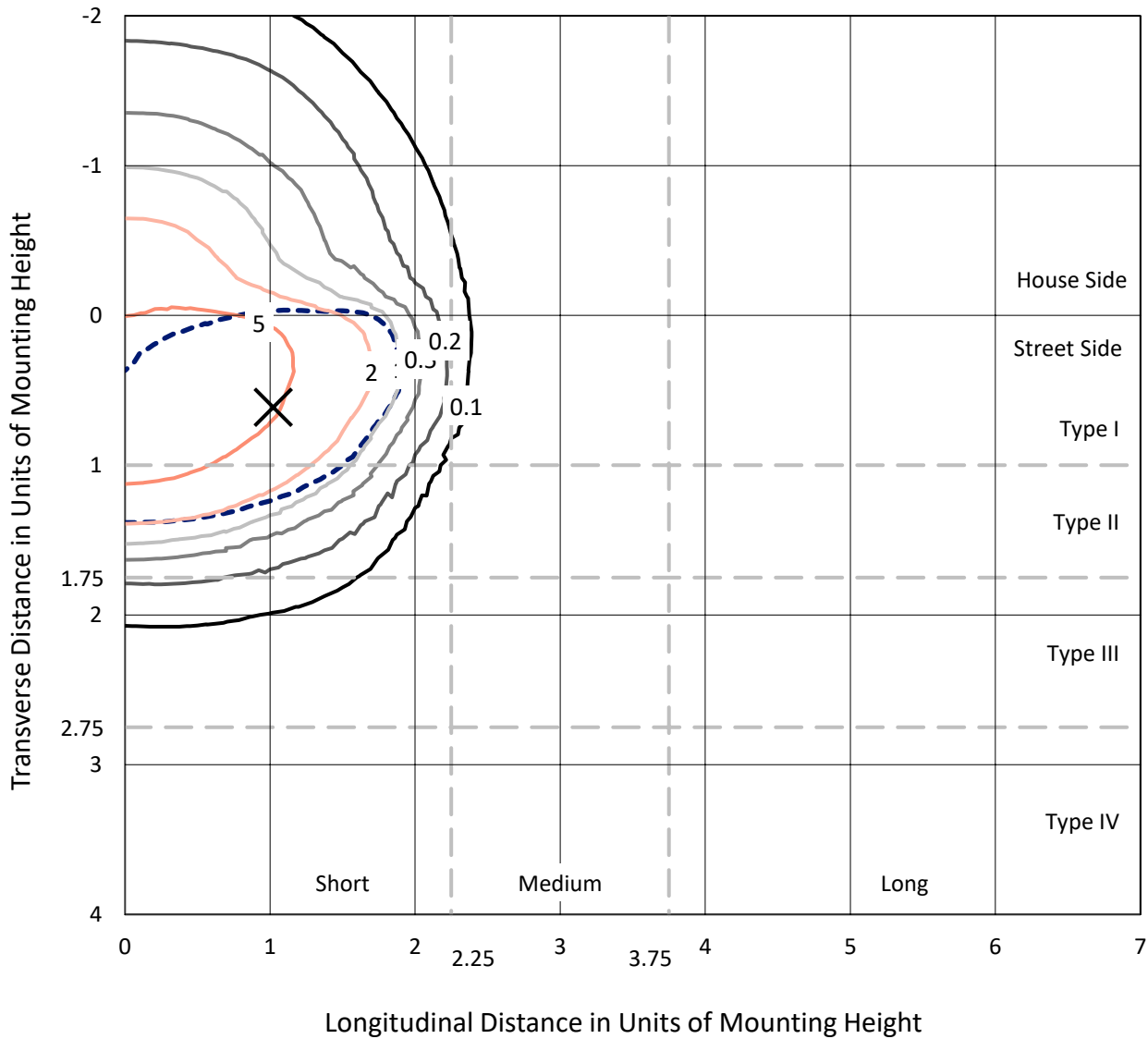
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

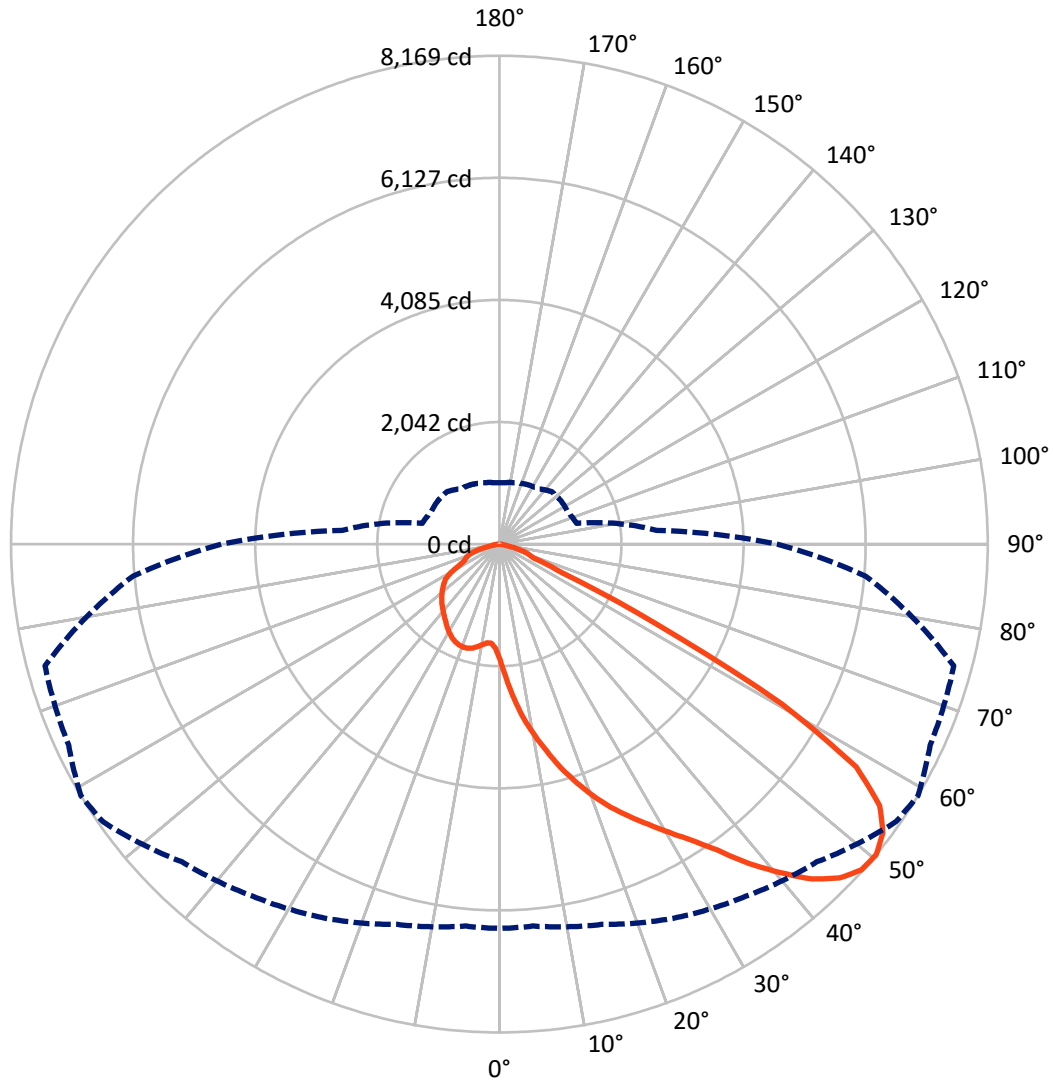
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.6 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
House Side	Lumens	2953.8	0.0	2953.8
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	9887.8	0.0	9887.8
	% Fixture	77.0	0.0	77.0
Total	Lumens	12841.6	0.0	12841.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.3	1.7
10°-20°	792.3	6.2
20°-30°	1500.3	11.7
30°-40°	2488.1	19.4
40°-50°	3398.8	26.5
50°-60°	3085.3	24.0
60°-70°	1027.4	8.0
70°-80°	299.7	2.3
80°-90°	31.5	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°	12841.6	100.0
0°-180°	12841.6	100.0

Coefficient of Utilization



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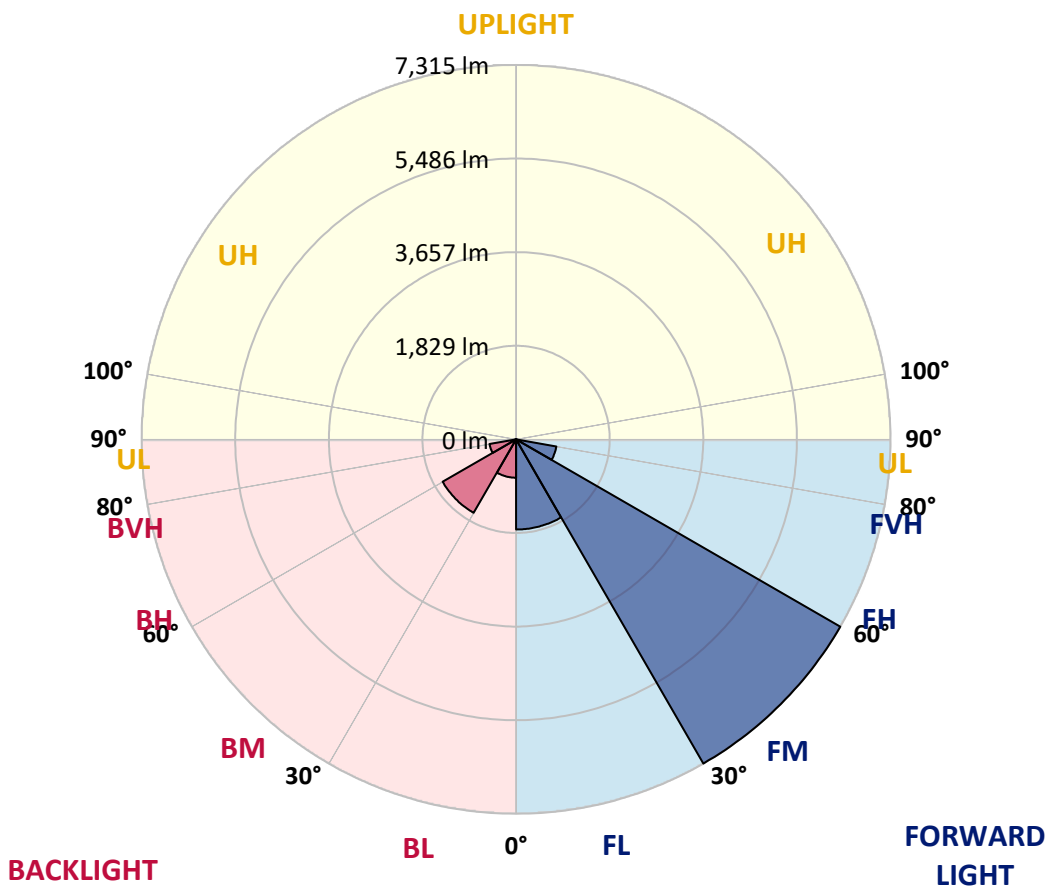
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1760.9	13.7			
FM (30°-60°)	7314.7	57.0			
FH (60°-80°)	799.9	6.2			G1/1800
FVH (80°-90°)	12.3	0.1			G1/100
BL (0°-30°)	750.0	5.8	B2/1000		
BM (30°-60°)	1657.4	12.9	B2/2500		
BH (60°-80°)	527.2	4.1	B2/1000		G2/1000
BVH (80°-90°)	19.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1945.6	1945.6	1945.6	1945.6	1945.6	1945.6	1945.6	1945.6	1945.6	1945.6	1945.6
2.5°	2520.9	2539.7	2510.4	2512.5	2439.3	2405.8	2311.7	2256.3	2219.6	2117.1	2024.0
5°	3029.3	3007.3	2984.3	2970.7	2906.9	2816.9	2699.8	2606.7	2520.9	2320.1	2126.6
7.5°	3341.0	3329.5	3313.8	3305.4	3242.7	3148.5	3031.4	2951.9	2827.4	2555.4	2251.0
10°	3605.6	3592.0	3582.6	3588.9	3537.6	3477.0	3349.3	3258.3	3118.2	2804.4	2401.7
12.5°	3810.6	3818.0	3821.1	3854.6	3832.6	3796.0	3664.2	3568.0	3412.1	3066.9	2578.4
15°	3972.8	3970.7	4007.3	4071.1	4106.7	4083.7	3978.0	3897.5	3707.1	3325.3	2768.8
17.5°	4010.4	4012.5	4070.1	4182.0	4298.1	4354.6	4294.9	4198.7	4010.4	3580.5	2966.5
20°	4040.8	4045.0	4104.6	4232.2	4401.6	4559.6	4569.0	4500.0	4337.8	3856.7	3167.3
22.5°	4232.2	4241.6	4257.3	4337.8	4490.6	4690.3	4800.2	4785.5	4649.5	4146.4	3383.9
25°	4735.3	4707.1	4630.7	4607.7	4666.3	4828.4	5015.7	5043.9	4977.0	4465.5	3617.1
27.5°	5356.7	5326.3	5213.4	5094.1	4967.5	5024.0	5223.8	5308.5	5309.6	4816.9	3851.4
30°	5920.5	5896.4	5804.4	5633.9	5415.2	5333.6	5481.1	5595.1	5663.1	5222.8	4118.2
32.5°	6402.7	6380.7	6256.2	6117.1	5903.7	5739.5	5792.8	5902.7	6061.7	5747.9	4449.8
35°	6808.5	6786.6	6667.3	6527.2	6329.5	6231.1	6212.3	6287.6	6493.7	6296.0	4830.5
37.5°	7138.0	7116.1	6991.6	6859.8	6709.2	6715.4	6743.7	6780.3	6898.5	6882.8	5237.4
40°	7351.4	7328.4	7239.5	7145.3	7050.2	7125.5	7265.6	7221.7	7284.5	7356.6	5611.9
42.5°	7446.6	7417.3	7366.1	7345.1	7315.8	7433.0	7702.9	7658.9	7583.6	7672.5	5890.1
45°	7351.4	7326.3	7325.3	7389.1	7457.1	7607.7	8005.2	7969.6	7779.2	7825.3	6056.4
47.5°	7059.6	7037.6	7097.2	7264.6	7432.0	7651.6	8140.1	8146.4	7918.4	7889.1	6164.2
50°	6428.8	6414.2	6586.8	6903.7	7192.4	7514.6	8097.2	8169.4	7951.8	7869.2	6150.6
52.5°	5146.4	5214.4	5589.9	6119.2	6679.9	7274.0	7938.2	8032.4	7790.7	7738.4	6077.4
55°	3523.0	3554.4	3929.9	4702.9	5592.0	6753.1	7573.2	7718.6	7600.4	7716.5	6153.7
57.5°	1824.3	1849.4	2145.4	2831.6	3792.9	5336.8	6559.6	7036.6	7216.5	7827.4	6391.2
60°	748.9	769.9	892.3	1223.8	1913.2	3107.7	4720.7	5427.8	5850.4	7148.5	5675.7
62.5°	543.9	554.4	613.0	730.1	1002.1	1523.0	2671.5	2932.0	3229.1	4480.1	3603.5
65°	458.2	469.7	516.7	587.9	731.2	934.1	1141.2	1147.5	1264.6	1825.3	1335.8
67.5°	383.9	394.3	436.2	496.9	591.0	663.2	613.0	614.0	611.9	662.1	640.2
70°	299.2	307.5	349.4	414.2	463.4	425.7	479.1	530.3	508.4	528.2	558.6
72.5°	218.6	228.0	264.6	313.8	301.3	303.3	388.1	440.4	427.8	449.8	478.0
75°	157.9	164.2	183.1	156.9	165.3	199.8	273.0	301.3	313.8	332.6	357.7
77.5°	51.3	51.3	57.5	72.2	90.0	110.9	139.1	150.6	169.5	190.4	208.2
80°	26.2	27.2	32.4	39.7	50.2	63.8	81.6	86.8	96.2	107.7	115.1
82.5°	12.6	13.6	15.7	19.9	26.2	33.5	45.0	50.2	56.5	63.8	69.0
85°	3.1	3.1	4.2	6.3	8.4	12.6	16.7	19.9	25.1	30.3	33.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	3.1	4.2	5.2	6.3	8.4
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°	1945.6	1945.6	1945.6	1945.6	1945.6	1945.6	1945.6	1945.6	1945.6	1945.6	1945.6
2.5°	1982.2	1923.6	1848.3	1784.5	1725.9	1681.0	1642.2	1623.4	1605.6	1593.1	1597.3
5°	2036.6	1936.2	1796.0	1698.7	1639.1	1608.8	1587.9	1577.4	1575.3	1566.9	1563.8
7.5°	2116.1	1972.8	1785.6	1687.2	1647.5	1631.8	1620.3	1614.0	1617.1	1608.8	1605.6
10°	2214.4	2033.5	1811.7	1724.9	1690.4	1678.9	1666.3	1657.9	1653.8	1641.2	1639.1
12.5°	2336.8	2108.8	1858.8	1773.0	1738.5	1718.6	1701.9	1687.2	1677.8	1662.1	1657.9
15°	2468.6	2192.5	1914.2	1820.1	1779.3	1750.0	1722.8	1700.8	1684.1	1663.2	1660.0
17.5°	2611.9	2280.3	1960.2	1852.5	1800.2	1761.5	1721.7	1689.3	1666.3	1639.1	1636.0
20°	2761.5	2369.2	1994.8	1868.2	1801.2	1748.9	1695.6	1652.7	1623.4	1596.2	1594.1
22.5°	2916.3	2450.8	2015.7	1864.0	1784.5	1719.7	1655.8	1607.7	1573.2	1540.8	1538.7
25°	3072.2	2529.3	2020.9	1847.3	1751.0	1675.7	1611.9	1555.4	1516.7	1480.1	1475.9
27.5°	3230.1	2595.2	2008.4	1813.8	1706.1	1624.5	1560.7	1505.2	1465.5	1428.9	1422.6
30°	3398.5	2651.7	1981.2	1769.9	1653.8	1570.1	1507.3	1465.5	1427.8	1391.2	1384.9
32.5°	3578.4	2700.8	1942.5	1716.5	1593.1	1515.7	1469.7	1432.0	1394.3	1361.9	1355.6
35°	3792.9	2733.2	1884.9	1647.5	1536.6	1475.9	1444.6	1400.6	1354.6	1319.0	1315.9
37.5°	4014.6	2758.3	1815.9	1581.6	1487.4	1452.9	1426.8	1367.1	1309.6	1266.7	1261.5
40°	4229.1	2779.3	1730.1	1519.9	1442.5	1436.2	1400.6	1326.4	1227.0	1178.9	1174.7
42.5°	4428.8	2785.5	1640.2	1454.0	1401.7	1398.5	1358.8	1243.7	1167.4	1137.0	1132.8
45°	4565.9	2780.3	1547.1	1392.2	1360.9	1344.1	1302.3	1184.1	1137.0	1109.8	1104.6
47.5°	4667.3	2753.1	1442.5	1327.4	1314.8	1291.8	1201.9	1146.4	1102.5	1075.3	1070.1
50°	4649.5	2640.1	1336.8	1264.6	1259.4	1239.5	1128.7	1099.4	1060.7	1031.4	1027.2
52.5°	4557.5	2425.7	1229.1	1195.6	1206.1	1167.4	1076.4	1042.9	1009.4	975.9	968.6
55°	4580.5	2270.9	1147.5	1128.7	1147.5	1059.6	1017.8	982.2	950.8	918.4	912.1
57.5°	4680.9	2118.2	1060.7	1056.5	1076.4	977.0	942.5	897.5	852.5	826.4	826.4
60°	3930.9	1543.9	907.9	918.4	963.4	910.0	879.7	833.7	784.5	761.5	761.5
62.5°	2324.3	968.6	753.1	741.6	769.9	803.3	820.1	782.4	723.8	693.5	694.6
65°	1024.1	705.0	664.2	654.8	646.4	669.5	715.5	718.6	656.9	621.3	622.4
67.5°	630.7	638.1	621.3	614.0	606.7	602.5	598.3	600.4	583.7	551.3	550.2
70°	569.0	588.9	577.4	571.1	561.7	554.4	529.3	488.5	460.2	451.9	461.3
72.5°	489.5	516.7	510.5	507.3	495.8	478.0	444.6	404.8	371.3	350.4	354.6
75°	369.2	391.2	394.3	395.4	382.8	366.1	331.6	298.1	268.8	246.9	252.1
77.5°	212.3	224.9	228.0	231.2	221.8	215.5	192.5	168.4	152.7	129.7	136.0
80°	118.2	123.4	123.4	124.5	119.2	111.9	96.2	82.6	75.3	64.9	65.9
82.5°	71.1	73.2	74.3	75.3	72.2	64.9	53.3	43.9	39.7	34.5	33.5
85°	34.5	36.6	36.6	37.7	32.4	28.2	22.0	16.7	14.6	10.5	11.5
87.5°	8.4	9.4	9.4	8.4	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)