

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: P636898

Luminaire Tested: GWS-SA4B-760-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636898
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-SA4B-760-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY 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: 12852.2 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

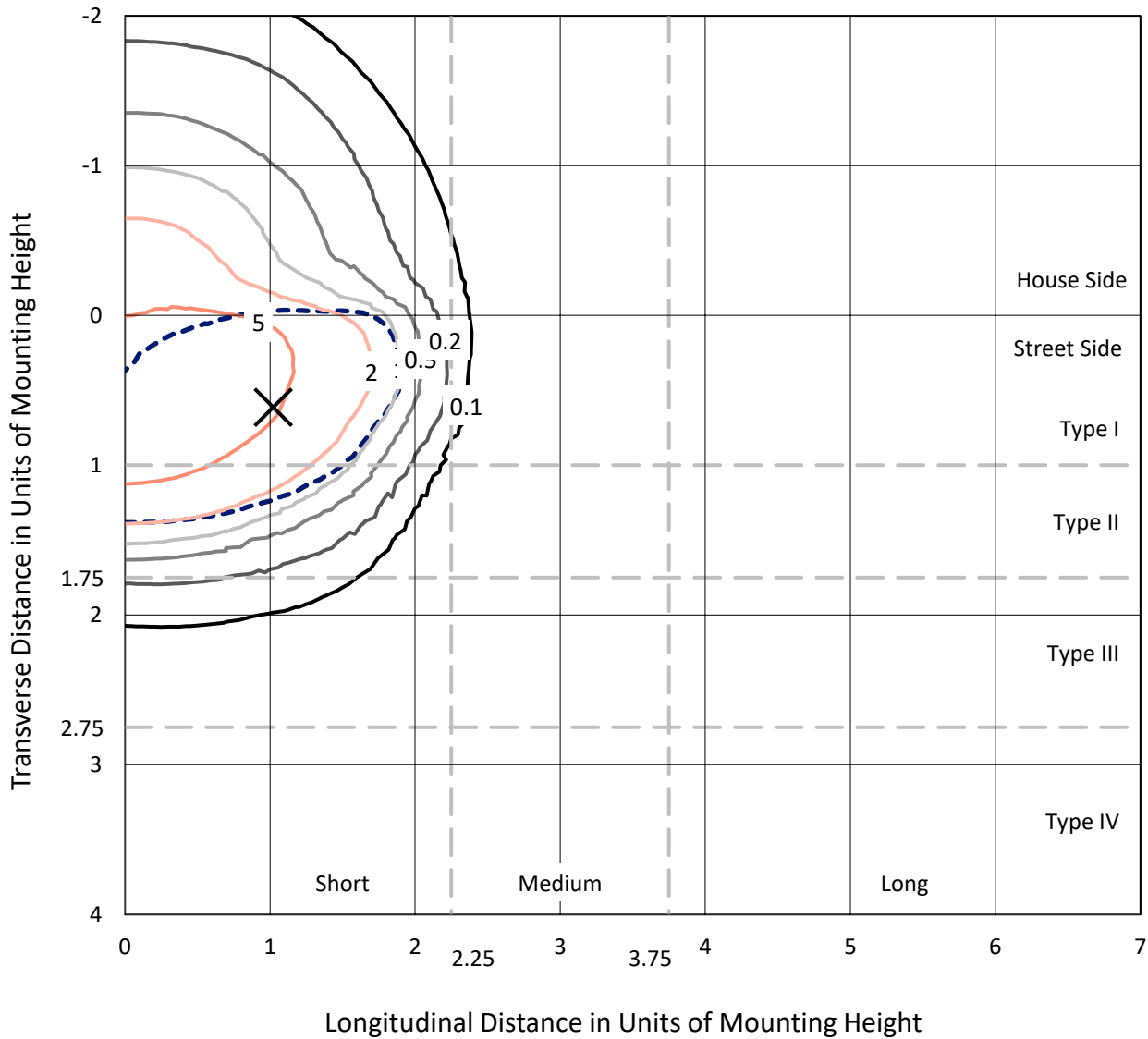
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

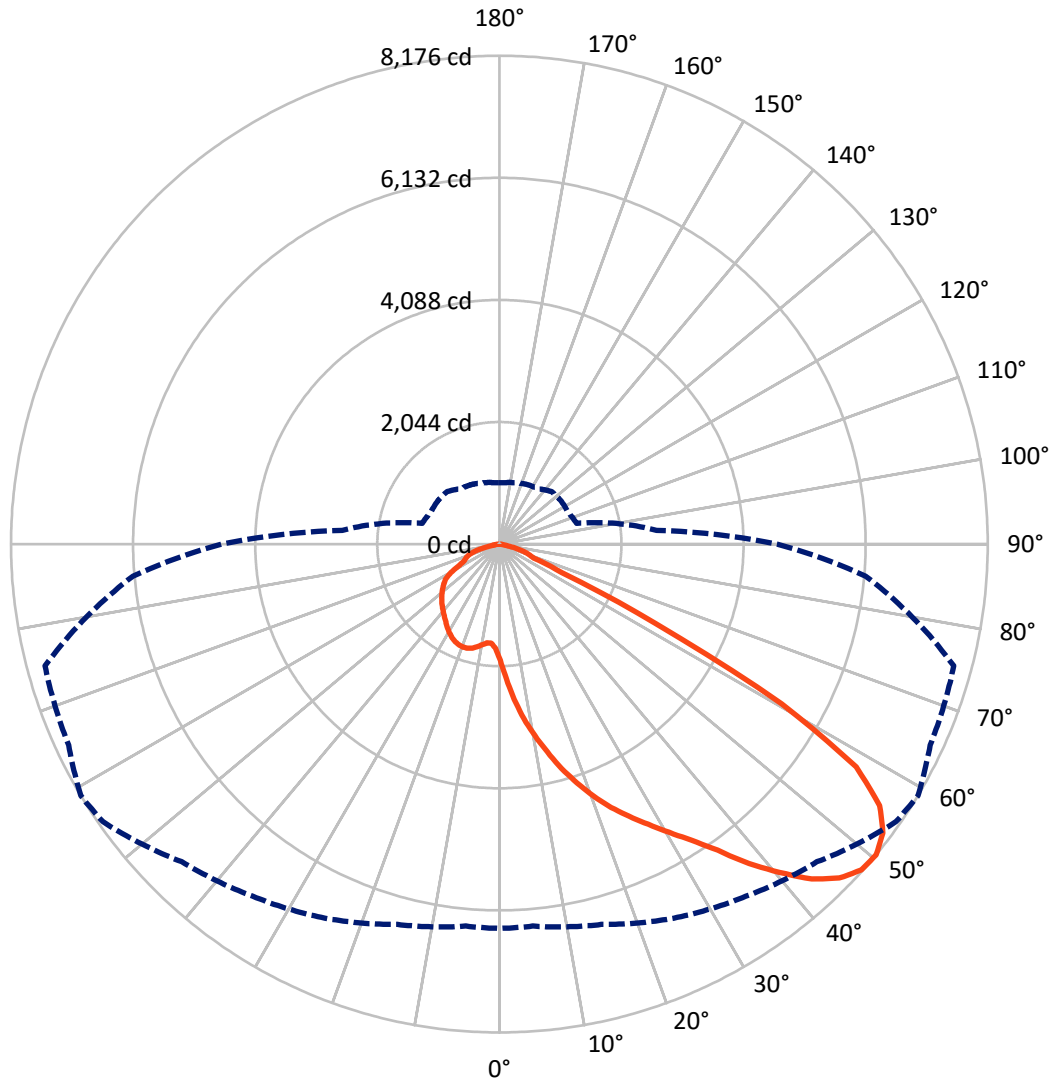
✕ Max cd
 - - - 1/2 Max cd



Based on 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	2956.2	0.0	2956.2
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	9896.0	0.0	9896.0
	% Fixture	77.0	0.0	77.0
Total	Lumens	12852.2	0.0	12852.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.4	1.7
10°-20°	793.0	6.2
20°-30°	1501.6	11.7
30°-40°	2490.1	19.4
40°-50°	3401.6	26.5
50°-60°	3087.8	24.0
60°-70°	1028.3	8.0
70°-80°	299.9	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°	12852.2	100.0
0°-180°	12852.2	100.0

Coefficient of Utilization



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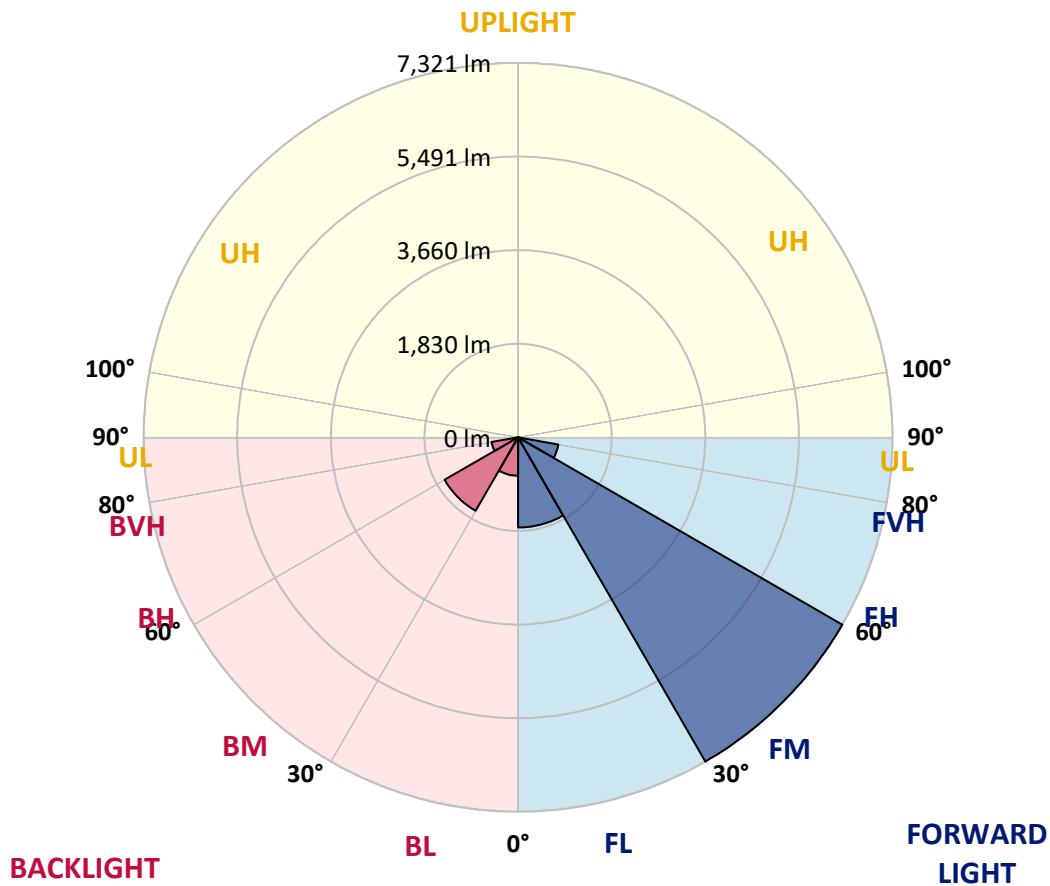
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1762.4	13.7			
FM (30°-60°)	7320.8	57.0			
FH (60°-80°)	800.5	6.2			G1/1800
FVH (80°-90°)	12.3	0.1			G1/100
BL (0°-30°)	750.7	5.8	B2/1000		
BM (30°-60°)	1658.7	12.9	B2/2500		
BH (60°-80°)	527.7	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°	1947.2	1947.2	1947.2	1947.2	1947.2	1947.2	1947.2	1947.2	1947.2	1947.2	1947.2
2.5°	2523.0	2541.8	2512.5	2514.6	2441.3	2407.8	2313.6	2258.1	2221.5	2118.9	2025.7
5°	3031.8	3009.8	2986.8	2973.1	2909.3	2819.3	2702.0	2608.8	2523.0	2322.0	2128.3
7.5°	3343.7	3332.2	3316.5	3308.1	3245.3	3151.1	3033.9	2954.3	2829.7	2557.5	2252.9
10°	3608.6	3595.0	3585.6	3591.8	3540.6	3479.8	3352.1	3261.0	3120.8	2806.7	2403.6
12.5°	3813.8	3821.1	3824.3	3857.8	3835.8	3799.1	3667.2	3570.9	3414.9	3069.5	2580.6
15°	3976.1	3974.0	4010.6	4074.5	4110.1	4087.0	3981.3	3900.7	3710.1	3328.0	2771.1
17.5°	4013.7	4015.8	4073.4	4185.4	4301.6	4358.2	4298.5	4202.2	4013.7	3583.5	2969.0
20°	4044.1	4048.3	4108.0	4235.7	4405.3	4563.4	4572.8	4503.7	4341.4	3859.9	3170.0
22.5°	4235.7	4245.1	4260.8	4341.4	4494.3	4694.2	4804.1	4789.5	4653.4	4149.8	3386.7
25°	4739.2	4711.0	4634.5	4611.5	4670.1	4832.4	5019.8	5048.1	4981.1	4469.1	3620.1
27.5°	5361.1	5330.7	5217.7	5098.3	4971.6	5028.2	5228.1	5312.9	5314.0	4820.9	3854.6
30°	5925.3	5901.3	5809.1	5638.5	5419.7	5338.0	5485.7	5599.8	5667.8	5227.1	4121.6
32.5°	6408.0	6386.0	6261.4	6122.2	5908.6	5744.2	5797.6	5907.6	6066.7	5752.6	4453.4
35°	6814.2	6792.2	6672.8	6532.5	6334.7	6236.3	6217.4	6292.8	6499.0	6301.2	4834.5
37.5°	7143.9	7121.9	6997.4	6865.4	6714.7	6721.0	6749.2	6785.9	6904.2	6888.5	5241.7
40°	7357.5	7334.5	7245.5	7151.2	7056.0	7131.4	7271.6	7227.7	7290.5	7362.7	5616.5
42.5°	7452.7	7423.4	7372.1	7351.2	7321.9	7439.1	7709.2	7665.3	7589.9	7678.9	5895.0
45°	7357.5	7332.4	7331.3	7395.2	7463.2	7614.0	8011.8	7976.2	7785.7	7831.7	6061.4
47.5°	7065.4	7043.4	7103.1	7270.6	7438.1	7657.9	8146.8	8153.1	7924.9	7895.6	6169.3
50°	6434.1	6419.5	6592.2	6909.4	7198.4	7520.8	8103.9	8176.1	7958.4	7875.7	6155.7
52.5°	5150.7	5218.7	5594.5	6124.3	6685.4	7280.0	7944.8	8039.0	7797.2	7744.8	6082.4
55°	3525.9	3557.3	3933.1	4706.8	5596.6	6758.7	7579.4	7724.9	7606.6	7722.8	6158.8
57.5°	1825.8	1850.9	2147.2	2833.9	3796.0	5341.2	6565.0	7042.4	7222.4	7833.8	6396.4
60°	749.6	770.5	893.0	1224.9	1914.7	3110.3	4724.6	5432.3	5855.2	7154.4	5680.4
62.5°	544.4	554.8	613.5	730.7	1002.9	1524.3	2673.7	2934.4	3231.7	4483.8	3606.5
65°	458.5	470.0	517.2	588.3	731.8	934.9	1142.1	1148.4	1265.7	1826.8	1336.9
67.5°	384.2	394.7	436.5	497.3	591.5	663.7	613.5	614.5	612.4	662.7	640.7
70°	299.4	307.8	349.7	414.6	463.8	426.1	479.5	530.8	508.8	528.7	559.0
72.5°	218.8	228.2	264.9	314.1	301.5	303.6	388.4	440.7	428.2	450.2	478.4
75°	158.1	164.4	183.2	157.0	165.4	200.0	273.2	301.5	314.1	332.9	358.0
77.5°	51.3	51.3	57.6	72.2	90.0	111.0	139.2	150.8	169.6	190.5	208.3
80°	26.2	27.2	32.5	39.8	50.3	63.9	81.7	86.9	96.3	107.8	115.2
82.5°	12.6	13.6	15.7	19.9	26.2	33.5	45.0	50.3	56.5	63.9	69.1
85°	3.1	3.1	4.2	6.3	8.4	12.6	16.8	19.9	25.1	30.4	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°	1947.2	1947.2	1947.2	1947.2	1947.2	1947.2	1947.2	1947.2	1947.2	1947.2	1947.2
2.5°	1983.8	1925.2	1849.8	1786.0	1727.4	1682.3	1643.6	1624.8	1607.0	1594.4	1598.6
5°	2038.3	1937.8	1797.5	1700.1	1640.5	1610.1	1589.2	1578.7	1576.6	1568.2	1565.1
7.5°	2117.8	1974.4	1787.0	1688.6	1648.8	1633.1	1621.6	1615.3	1618.5	1610.1	1607.0
10°	2216.2	2035.1	1813.2	1726.3	1691.8	1680.2	1667.7	1659.3	1655.1	1642.6	1640.5
12.5°	2338.7	2110.5	1860.3	1774.5	1739.9	1720.0	1703.3	1688.6	1679.2	1663.5	1659.3
15°	2470.6	2194.3	1915.8	1821.6	1780.7	1751.4	1724.2	1702.2	1685.5	1664.5	1661.4
17.5°	2614.1	2282.2	1961.9	1854.0	1801.7	1762.9	1723.2	1690.7	1667.7	1640.5	1637.3
20°	2763.8	2371.2	1996.4	1869.7	1802.7	1750.4	1697.0	1654.1	1624.8	1597.5	1595.4
22.5°	2918.7	2452.8	2017.3	1865.5	1786.0	1721.1	1657.2	1609.1	1574.5	1542.1	1540.0
25°	3074.7	2531.4	2022.6	1848.8	1752.5	1677.1	1613.2	1556.7	1518.0	1481.3	1477.1
27.5°	3232.8	2597.3	2010.0	1815.3	1707.5	1625.8	1561.9	1506.5	1466.7	1430.0	1423.8
30°	3401.3	2653.8	1982.8	1771.3	1655.1	1571.4	1508.6	1466.7	1429.0	1392.4	1386.1
32.5°	3581.4	2703.0	1944.1	1717.9	1594.4	1516.9	1470.9	1433.2	1395.5	1363.0	1356.8
35°	3796.0	2735.5	1886.5	1648.8	1537.9	1477.1	1445.7	1401.8	1355.7	1320.1	1317.0
37.5°	4017.9	2760.6	1817.4	1582.9	1488.7	1454.1	1427.9	1368.3	1310.7	1267.8	1262.5
40°	4232.5	2781.6	1731.5	1521.1	1443.6	1437.4	1401.8	1327.4	1228.0	1179.8	1175.6
42.5°	4432.5	2787.8	1641.5	1455.2	1402.8	1399.7	1359.9	1244.7	1168.3	1138.0	1133.8
45°	4569.6	2782.6	1548.3	1393.4	1362.0	1345.2	1303.4	1185.1	1138.0	1110.7	1105.5
47.5°	4671.2	2755.4	1443.6	1328.5	1315.9	1292.9	1202.9	1147.4	1103.4	1076.2	1071.0
50°	4653.4	2642.3	1337.9	1265.7	1260.4	1240.6	1129.6	1100.3	1061.5	1032.2	1028.0
52.5°	4561.3	2427.7	1230.1	1196.6	1207.1	1168.3	1077.2	1043.7	1010.2	976.7	969.4
55°	4584.3	2272.8	1148.4	1129.6	1148.4	1060.5	1018.6	983.0	951.6	919.2	912.9
57.5°	4684.8	2119.9	1061.5	1057.4	1077.2	977.8	943.2	898.2	853.2	827.0	827.0
60°	3934.2	1545.2	908.7	919.2	964.2	910.8	880.4	834.4	785.2	762.1	762.1
62.5°	2326.2	969.4	753.8	742.2	770.5	804.0	820.8	783.1	724.4	694.1	695.1
65°	1024.9	705.6	664.8	655.3	647.0	670.0	716.1	719.2	657.4	621.8	622.9
67.5°	631.3	638.6	621.8	614.5	607.2	603.0	598.8	600.9	584.2	551.7	550.7
70°	569.5	589.4	577.9	571.6	562.2	554.8	529.7	488.9	460.6	452.3	461.7
72.5°	489.9	517.2	510.9	507.7	496.2	478.4	444.9	405.1	371.6	350.7	354.9
75°	369.5	391.5	394.7	395.7	383.2	366.4	331.9	298.4	269.0	247.1	252.3
77.5°	212.5	225.1	228.2	231.4	221.9	215.7	192.6	168.5	152.8	129.8	136.1
80°	118.3	123.5	123.5	124.6	119.3	112.0	96.3	82.7	75.4	64.9	66.0
82.5°	71.2	73.3	74.3	75.4	72.2	64.9	53.4	44.0	39.8	34.5	33.5
85°	34.5	36.6	36.6	37.7	32.5	28.3	22.0	16.8	14.7	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)