

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: P633268

Luminaire Tested: GWS-SA2E-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633268
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12665.6 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

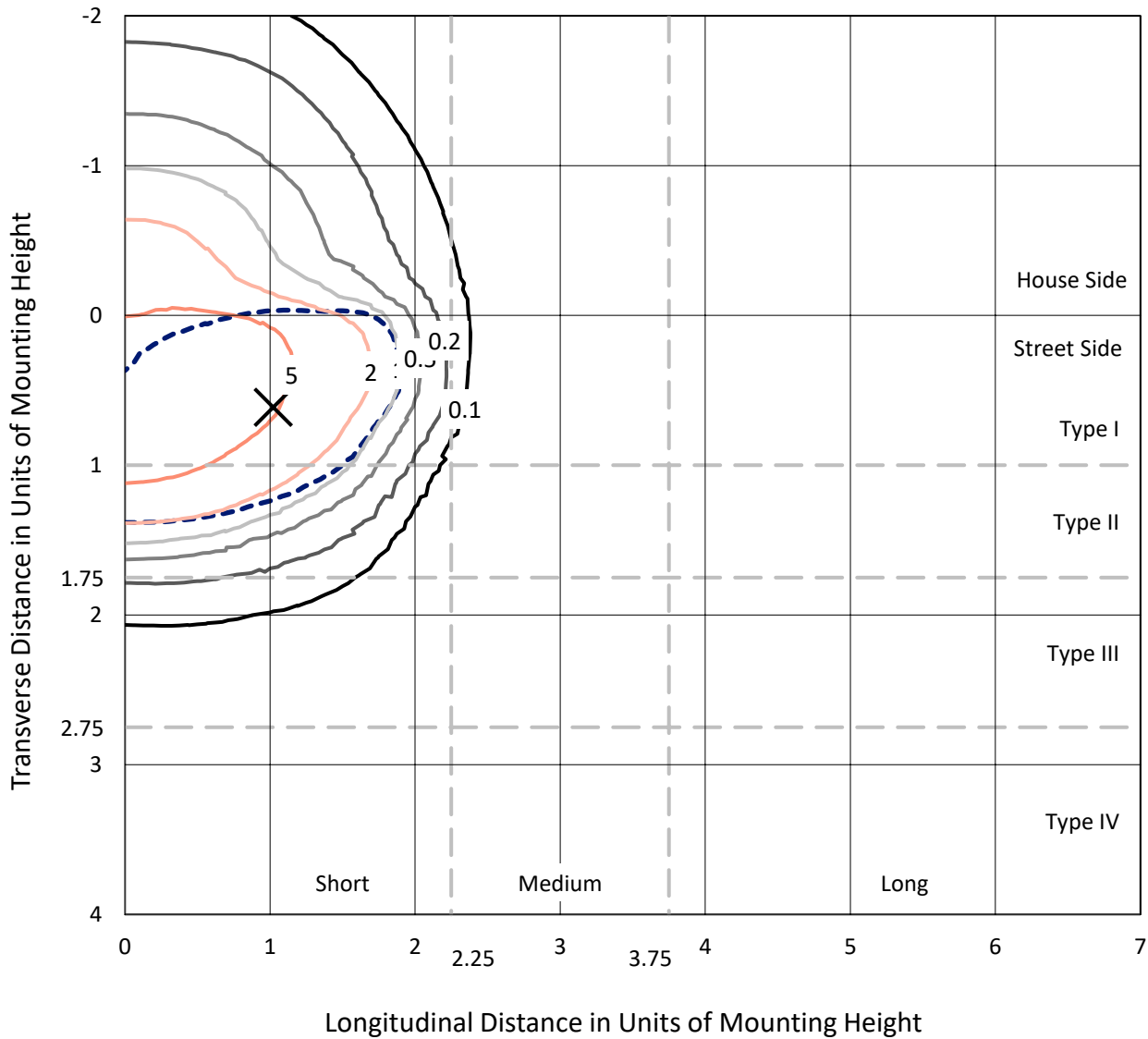
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

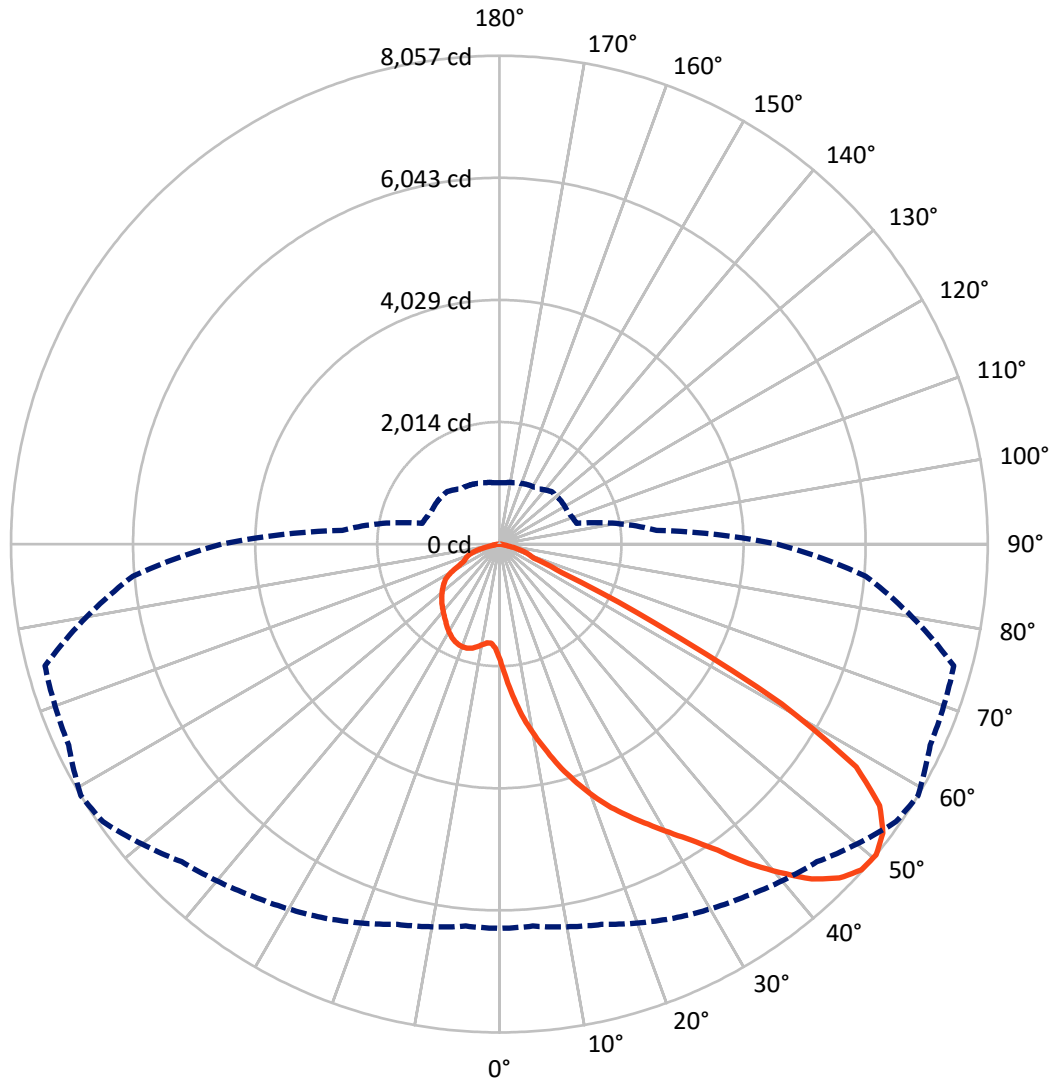
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.5 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	2913.3	0.0	2913.3
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	9752.3	0.0	9752.3
	% Fixture	77.0	0.0	77.0
Total	Lumens	12665.6	0.0	12665.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.3	1.7
10°-20°	781.5	6.2
20°-30°	1479.8	11.7
30°-40°	2454.0	19.4
40°-50°	3352.2	26.5
50°-60°	3043.0	24.0
60°-70°	1013.3	8.0
70°-80°	295.6	2.3
80°-90°	31.0	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°	12665.6	100.0
0°-180°	12665.6	100.0

Coefficient of Utilization



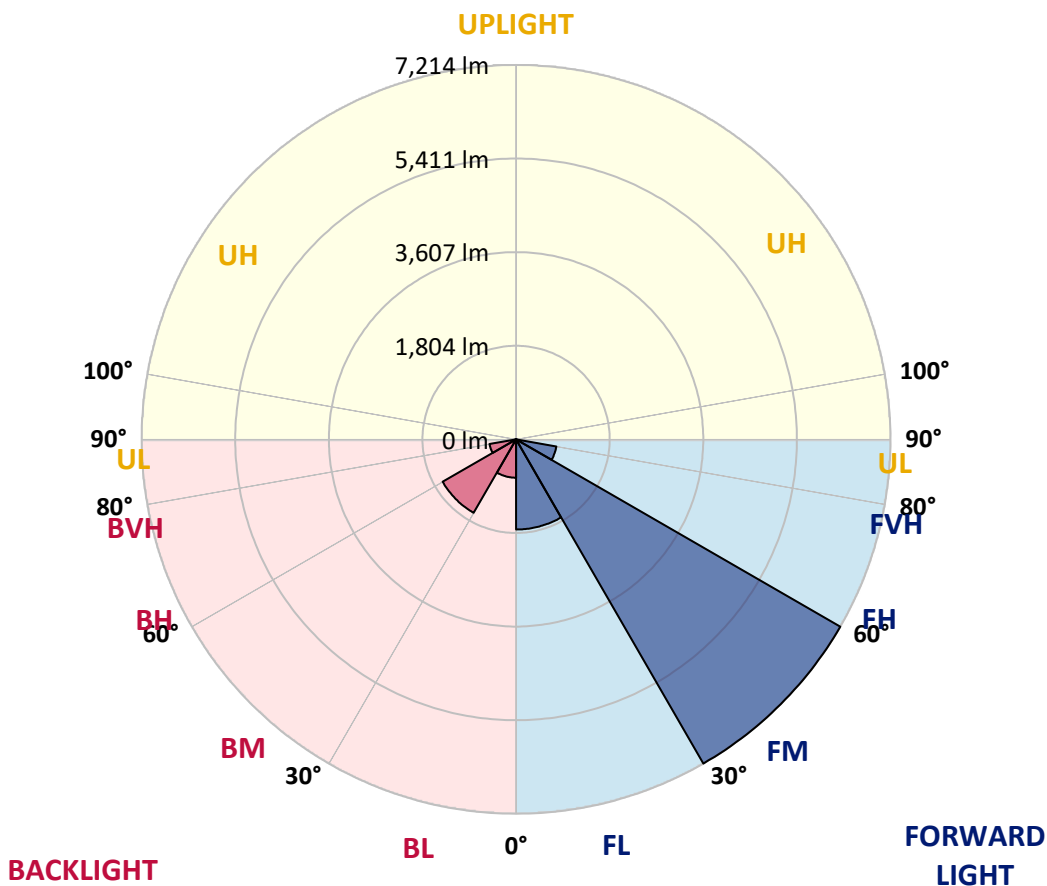
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1736.8	13.7			
FM (30°-60°)	7214.5	57.0			
FH (60°-80°)	788.9	6.2			G1/1800
FVH (80°-90°)	12.1	0.1			G1/100
BL (0°-30°)	739.8	5.8	B2/1000		
BM (30°-60°)	1634.7	12.9	B2/2500		
BH (60°-80°)	520.0	4.1	B2/1000		G2/1000
BVH (80°-90°)	18.9	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°	1918.9	1918.9	1918.9	1918.9	1918.9	1918.9	1918.9	1918.9	1918.9	1918.9	1918.9
2.5°	2486.4	2504.9	2476.0	2478.1	2405.9	2372.9	2280.0	2225.3	2189.2	2088.1	1996.3
5°	2987.8	2966.1	2943.4	2930.0	2867.0	2778.3	2662.8	2571.0	2486.4	2288.3	2097.4
7.5°	3295.2	3283.8	3268.4	3260.1	3198.2	3105.4	2989.8	2911.4	2788.6	2520.4	2220.2
10°	3556.2	3542.8	3533.5	3539.7	3489.1	3429.3	3303.4	3213.7	3075.4	2765.9	2368.7
12.5°	3758.4	3765.6	3768.7	3801.7	3780.1	3744.0	3614.0	3519.1	3365.3	3024.9	2543.1
15°	3918.3	3916.3	3952.4	4015.3	4050.4	4027.7	3923.5	3844.0	3656.3	3279.7	2730.9
17.5°	3955.5	3957.5	4014.3	4124.7	4239.2	4294.9	4236.1	4141.2	3955.5	3531.4	2925.8
20°	3985.4	3989.5	4048.3	4174.2	4341.3	4497.1	4506.4	4438.3	4278.4	3803.8	3123.9
22.5°	4174.2	4183.5	4198.9	4278.4	4429.0	4626.1	4734.4	4719.9	4585.8	4089.6	3337.5
25°	4670.4	4642.6	4567.3	4544.6	4602.3	4762.2	4946.9	4974.8	4908.7	4404.2	3567.6
27.5°	5283.2	5253.3	5141.9	5024.3	4899.5	4955.2	5152.2	5235.8	5236.8	4750.9	3798.7
30°	5839.3	5815.6	5724.8	5556.6	5341.0	5260.5	5406.0	5518.5	5585.5	5151.2	4061.7
32.5°	6314.9	6293.3	6170.5	6033.3	5822.8	5660.8	5713.5	5821.8	5978.6	5669.1	4388.8
35°	6715.2	6693.6	6575.9	6437.7	6242.7	6145.7	6127.2	6201.4	6404.7	6209.7	4764.3
37.5°	7040.2	7018.5	6895.8	6765.8	6617.2	6623.4	6651.3	6687.4	6803.9	6788.5	5165.6
40°	7250.7	7228.0	7140.3	7047.4	6953.5	7027.8	7166.1	7122.7	7184.6	7255.8	5535.0
42.5°	7344.5	7315.7	7265.1	7244.5	7215.6	7331.1	7597.3	7554.0	7479.7	7567.4	5809.4
45°	7250.7	7225.9	7224.9	7287.8	7354.9	7503.4	7895.5	7860.4	7672.6	7718.0	5973.4
47.5°	6962.8	6941.2	7000.0	7165.0	7330.1	7546.8	8028.5	8034.7	7809.8	7780.9	6079.7
50°	6340.7	6326.3	6496.5	6809.1	7093.8	7411.6	7986.2	8057.4	7842.8	7761.3	6066.3
52.5°	5075.9	5142.9	5513.3	6035.3	6588.3	7174.3	7829.4	7922.3	7684.0	7632.4	5994.1
55°	3474.7	3505.7	3876.0	4638.4	5515.4	6660.5	7469.4	7612.8	7496.2	7610.7	6069.4
57.5°	1799.3	1824.0	2116.0	2792.8	3740.9	5263.6	6469.7	6940.1	7117.6	7720.1	6303.6
60°	738.7	759.3	880.0	1207.1	1886.9	3065.1	4656.0	5353.4	5770.2	7050.5	5597.9
62.5°	536.5	546.8	604.6	720.1	988.4	1502.1	2634.9	2891.8	3184.8	4418.7	3554.1
65°	451.9	463.2	509.7	579.8	721.1	921.3	1125.6	1131.8	1247.3	1800.3	1317.5
67.5°	378.6	388.9	430.2	490.0	582.9	654.1	604.6	605.6	603.5	653.1	631.4
70°	295.1	303.3	344.6	408.5	457.0	419.9	472.5	523.1	501.4	521.0	550.9
72.5°	215.6	224.9	261.0	309.5	297.1	299.2	382.8	434.3	422.0	443.6	471.5
75°	155.8	162.0	180.5	154.8	163.0	197.1	269.3	297.1	309.5	328.1	352.8
77.5°	50.6	50.6	56.7	71.2	88.7	109.4	137.2	148.6	167.1	187.8	205.3
80°	25.8	26.8	32.0	39.2	49.5	62.9	80.5	85.6	94.9	106.3	113.5
82.5°	12.4	13.4	15.5	19.6	25.8	33.0	44.4	49.5	55.7	62.9	68.1
85°	3.1	3.1	4.1	6.2	8.3	12.4	16.5	19.6	24.8	29.9	33.0
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	3.1	4.1	5.2	6.2	8.3
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°	1918.9	1918.9	1918.9	1918.9	1918.9	1918.9	1918.9	1918.9	1918.9	1918.9	1918.9
2.5°	1955.0	1897.3	1823.0	1760.0	1702.3	1657.9	1619.7	1601.2	1583.6	1571.3	1575.4
5°	2008.7	1909.6	1771.4	1675.5	1616.6	1586.7	1566.1	1555.8	1553.7	1545.5	1542.4
7.5°	2087.1	1945.8	1761.1	1664.1	1624.9	1609.4	1598.1	1591.9	1595.0	1586.7	1583.6
10°	2184.1	2005.6	1786.9	1701.2	1667.2	1655.8	1643.5	1635.2	1631.1	1618.7	1616.6
12.5°	2304.8	2079.9	1833.3	1748.7	1714.7	1695.1	1678.5	1664.1	1654.8	1639.3	1635.2
15°	2434.8	2162.4	1888.0	1795.1	1754.9	1726.0	1699.2	1677.5	1661.0	1640.4	1637.3
17.5°	2576.1	2249.1	1933.4	1827.1	1775.5	1737.4	1698.1	1666.2	1643.5	1616.6	1613.6
20°	2723.6	2336.8	1967.4	1842.6	1776.6	1725.0	1672.4	1630.1	1601.2	1574.3	1572.3
22.5°	2876.3	2417.2	1988.1	1838.5	1760.0	1696.1	1633.2	1585.7	1551.6	1519.7	1517.6
25°	3030.0	2494.6	1993.2	1821.9	1727.0	1652.8	1589.8	1534.1	1495.9	1459.8	1455.7
27.5°	3185.8	2559.6	1980.8	1788.9	1682.7	1602.2	1539.3	1484.6	1445.4	1409.3	1403.1
30°	3351.9	2615.3	1954.0	1745.6	1631.1	1548.6	1486.7	1445.4	1408.2	1372.1	1365.9
32.5°	3529.4	2663.8	1915.8	1693.0	1571.3	1494.9	1449.5	1412.4	1375.2	1343.2	1337.1
35°	3740.9	2695.8	1859.1	1624.9	1515.5	1455.7	1424.8	1381.4	1336.0	1301.0	1297.9
37.5°	3959.6	2720.5	1791.0	1559.9	1467.1	1433.0	1407.2	1348.4	1291.7	1249.4	1244.2
40°	4171.1	2741.2	1706.4	1499.0	1422.7	1416.5	1381.4	1308.2	1210.2	1162.7	1158.6
42.5°	4368.1	2747.4	1617.7	1434.0	1382.5	1379.4	1340.2	1226.7	1151.4	1121.4	1117.3
45°	4503.3	2742.2	1525.9	1373.2	1342.2	1325.7	1284.4	1167.9	1121.4	1094.6	1089.5
47.5°	4603.4	2715.4	1422.7	1309.2	1296.8	1274.1	1185.4	1130.7	1087.4	1060.6	1055.4
50°	4585.8	2604.0	1318.5	1247.3	1242.1	1222.5	1113.2	1084.3	1046.1	1017.2	1013.1
52.5°	4495.0	2392.5	1212.2	1179.2	1189.5	1151.4	1061.6	1028.6	995.6	962.6	955.3
55°	4517.7	2239.8	1131.8	1113.2	1131.8	1045.1	1003.8	968.7	937.8	905.8	899.6
57.5°	4616.8	2089.2	1046.1	1042.0	1061.6	963.6	929.5	885.2	840.8	815.0	815.0
60°	3877.1	1522.8	895.5	905.8	950.2	897.6	867.6	822.3	773.8	751.1	751.1
62.5°	2292.4	955.3	742.8	731.5	759.3	792.3	808.8	771.7	713.9	684.0	685.0
65°	1010.0	695.4	655.1	645.8	637.6	660.3	705.7	708.8	647.9	612.8	613.9
67.5°	622.1	629.3	612.8	605.6	598.4	594.2	590.1	592.2	575.7	543.7	542.7
70°	561.2	580.8	569.5	563.3	554.0	546.8	522.0	481.8	453.9	445.7	455.0
72.5°	482.8	509.7	503.5	500.4	489.0	471.5	438.5	399.3	366.2	345.6	349.7
75°	364.2	385.8	388.9	390.0	377.6	361.1	327.0	294.0	265.1	243.5	248.6
77.5°	209.4	221.8	224.9	228.0	218.7	212.5	189.8	166.1	150.6	127.9	134.1
80°	116.6	121.7	121.7	122.8	117.6	110.4	94.9	81.5	74.3	64.0	65.0
82.5°	70.2	72.2	73.2	74.3	71.2	64.0	52.6	43.3	39.2	34.0	33.0
85°	34.0	36.1	36.1	37.1	32.0	27.9	21.7	16.5	14.4	10.3	11.3
87.5°	8.3	9.3	9.3	8.3	7.2	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)