

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: P633378

Luminaire Tested: GWS-SA2E-750-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633378
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13135.9 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

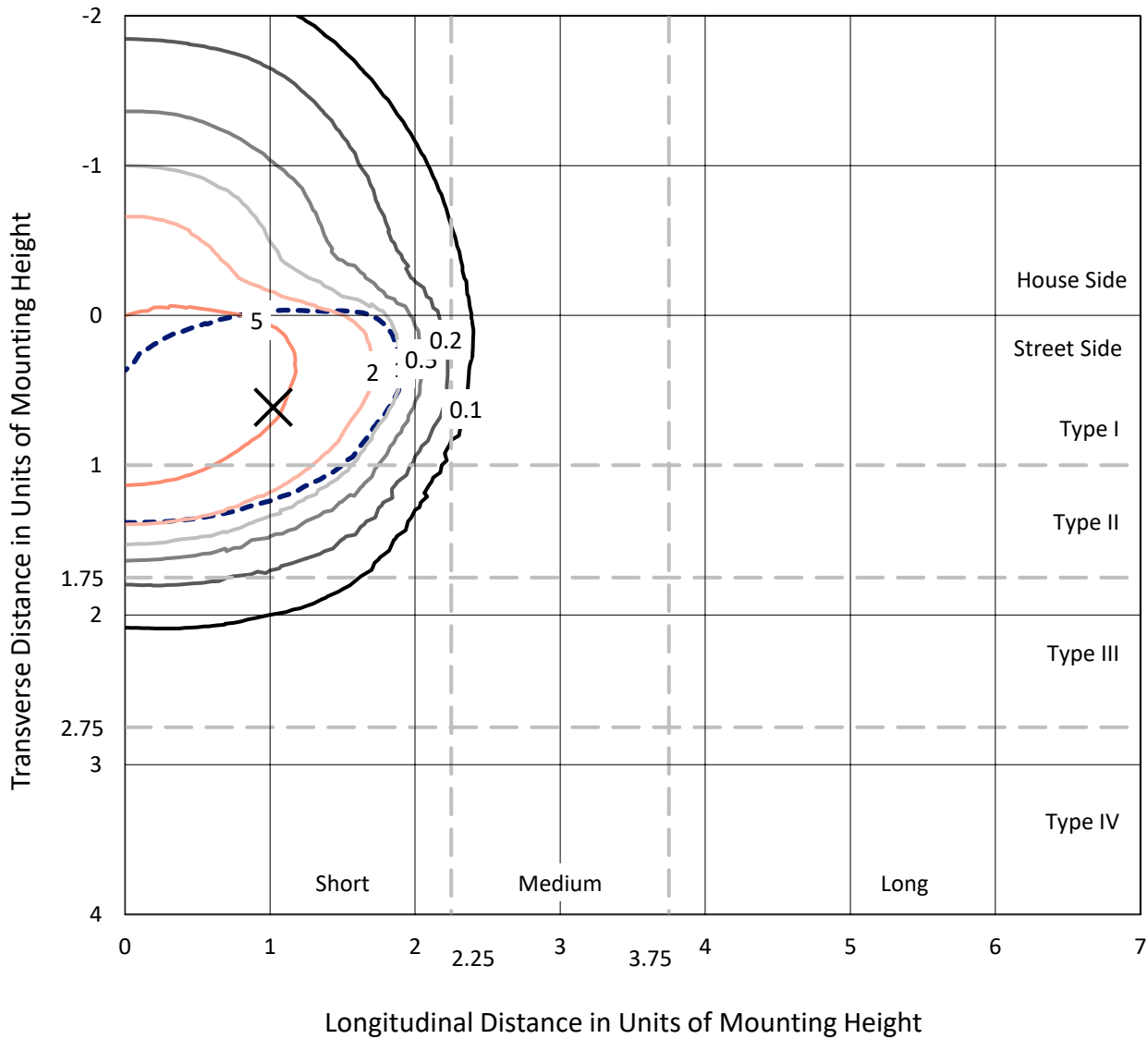
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

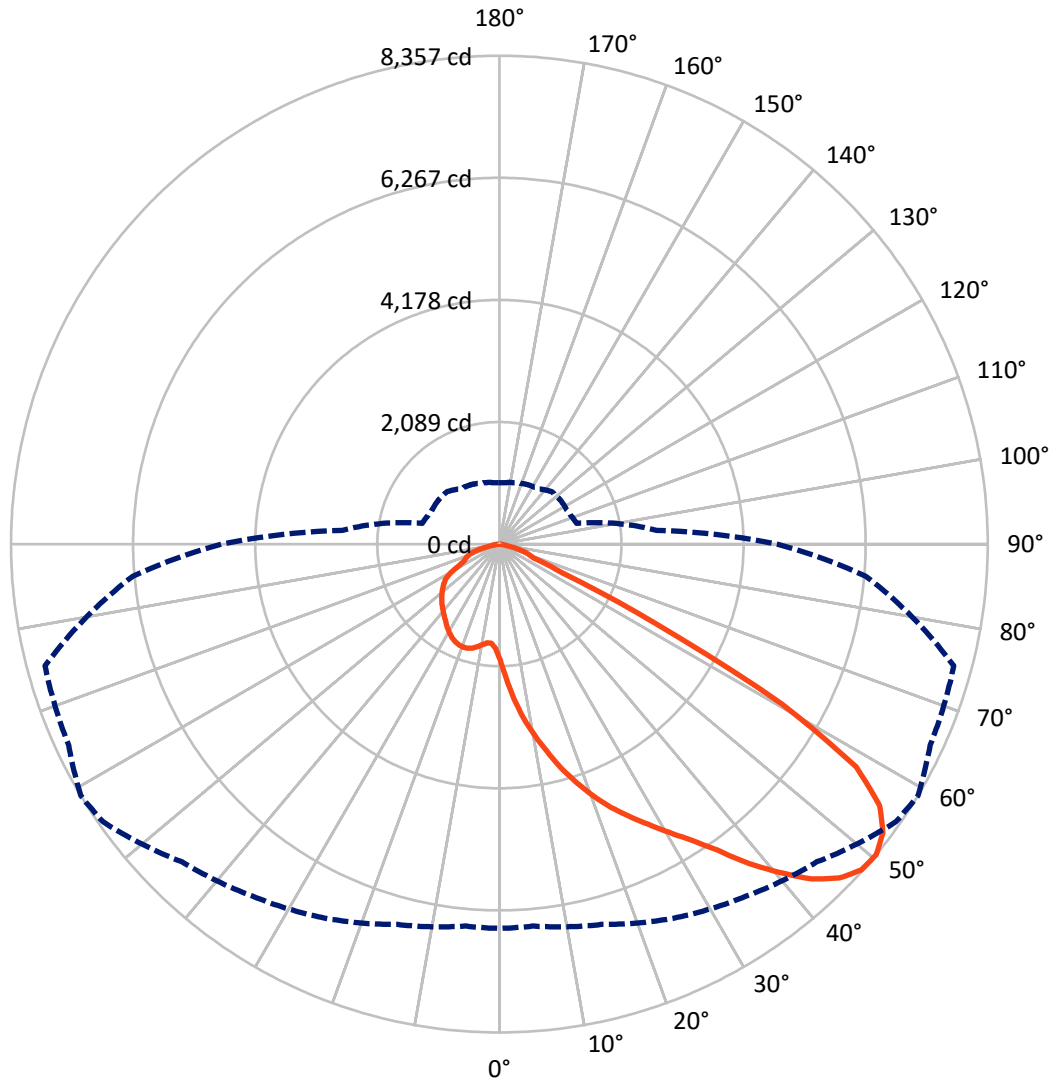
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.8 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	3021.5	0.0	3021.5
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	10114.4	0.0	10114.4
	% Fixture	77.0	0.0	77.0
Total	Lumens	13135.9	0.0	13135.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.3	1.7
10°-20°	810.5	6.2
20°-30°	1534.7	11.7
30°-40°	2545.1	19.4
40°-50°	3476.7	26.5
50°-60°	3156.0	24.0
60°-70°	1051.0	8.0
70°-80°	306.5	2.3
80°-90°	32.2	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°	13135.9	100.0
0°-180°	13135.9	100.0

Coefficient of Utilization



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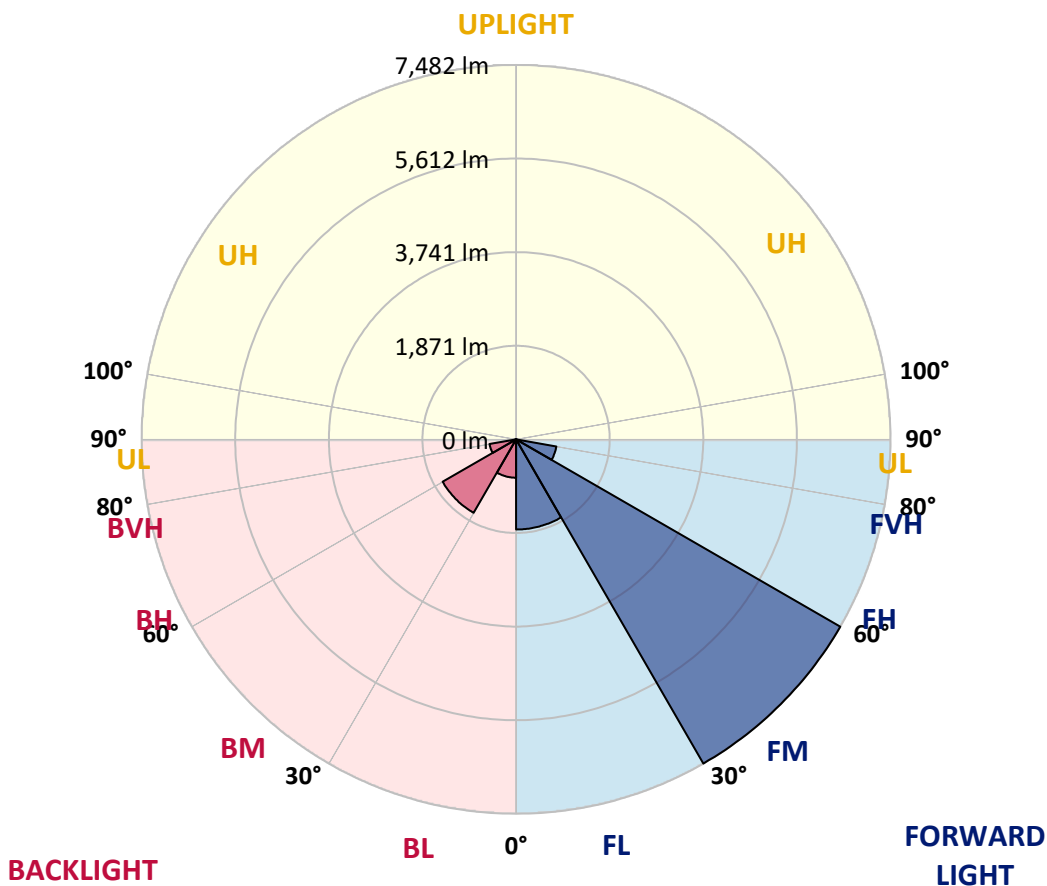
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1801.3	13.7			
FM (30°-60°)	7482.4	57.0			
FH (60°-80°)	818.2	6.2			G1/1800
FVH (80°-90°)	12.6	0.1			G1/100
BL (0°-30°)	767.2	5.8	B2/1000		
BM (30°-60°)	1695.4	12.9	B2/2500		
BH (60°-80°)	539.3	4.1	B2/1000		G2/1000
BVH (80°-90°)	19.6	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°	1990.2	1990.2	1990.2	1990.2	1990.2	1990.2	1990.2	1990.2	1990.2	1990.2	1990.2
2.5°	2578.7	2597.9	2568.0	2570.1	2495.2	2461.0	2364.7	2308.0	2270.5	2165.7	2070.4
5°	3098.7	3076.2	3052.7	3038.8	2973.5	2881.5	2761.6	2666.4	2578.7	2373.2	2175.3
7.5°	3417.5	3405.8	3389.7	3381.2	3317.0	3220.7	3100.8	3019.5	2892.2	2614.0	2302.6
10°	3688.3	3674.3	3664.7	3671.1	3618.7	3556.6	3426.1	3333.0	3189.6	2868.6	2456.7
12.5°	3898.0	3905.5	3908.7	3942.9	3920.4	3883.0	3748.2	3649.7	3490.3	3137.2	2637.5
15°	4063.8	4061.7	4099.1	4164.4	4200.8	4177.2	4069.2	3986.8	3792.0	3401.5	2832.3
17.5°	4102.3	4104.5	4163.3	4277.8	4396.6	4454.4	4393.4	4294.9	4102.3	3662.6	3034.5
20°	4133.4	4137.7	4198.6	4329.2	4502.5	4664.1	4673.7	4603.1	4437.2	3945.1	3239.9
22.5°	4329.2	4338.8	4354.9	4437.2	4593.5	4797.8	4910.2	4895.2	4756.1	4241.4	3461.4
25°	4843.8	4815.0	4736.8	4713.3	4773.2	4939.1	5130.6	5159.5	5091.0	4567.8	3700.0
27.5°	5479.4	5448.4	5332.8	5210.9	5081.4	5139.2	5343.5	5430.2	5431.3	4927.3	3939.7
30°	6056.1	6031.5	5937.4	5763.0	5539.3	5455.9	5606.7	5723.4	5792.9	5342.5	4212.6
32.5°	6549.4	6526.9	6399.6	6257.3	6039.0	5871.0	5925.6	6038.0	6200.6	5879.6	4551.7
35°	6964.6	6942.1	6820.1	6676.7	6474.5	6373.9	6354.7	6431.7	6642.5	6440.3	4941.2
37.5°	7301.6	7279.1	7151.8	7017.0	6862.9	6869.3	6898.2	6935.7	7056.6	7040.5	5357.4
40°	7519.9	7496.4	7405.4	7309.1	7211.7	7288.8	7432.2	7387.2	7451.4	7525.2	5740.5
42.5°	7617.3	7587.3	7534.9	7513.5	7483.5	7603.4	7879.4	7834.5	7757.4	7848.4	6025.1
45°	7519.9	7494.2	7493.1	7558.4	7628.0	7782.0	8188.6	8152.3	7957.5	8004.6	6195.2
47.5°	7221.4	7198.9	7259.9	7431.1	7602.3	7827.0	8326.7	8333.1	8099.8	8069.9	6305.5
50°	6576.2	6561.2	6737.7	7061.9	7357.3	7686.8	8282.8	8356.6	8134.1	8049.5	6291.5
52.5°	5264.4	5333.9	5718.0	6259.4	6833.0	7440.7	8120.2	8216.5	7969.3	7915.8	6216.6
55°	3603.7	3635.8	4020.0	4810.7	5720.2	6907.9	7746.7	7895.5	7774.5	7893.3	6294.8
57.5°	1866.1	1891.7	2194.5	2896.5	3879.8	5459.1	6709.9	7197.8	7381.9	8006.7	6537.6
60°	766.1	787.5	912.7	1251.9	1957.0	3178.9	4828.9	5552.2	5984.5	7312.3	5805.8
62.5°	556.4	567.1	627.0	746.9	1025.1	1557.9	2732.8	2999.2	3303.1	4582.8	3686.1
65°	468.7	480.4	528.6	601.3	747.9	955.5	1167.4	1173.8	1293.6	1867.1	1366.4
67.5°	392.7	403.4	446.2	508.2	604.5	678.4	627.0	628.1	625.9	677.3	654.8
70°	306.0	314.6	357.4	423.7	474.0	435.5	490.1	542.5	520.0	540.3	571.4
72.5°	223.6	233.3	270.7	321.0	308.2	310.3	397.0	450.5	437.6	460.1	489.0
75°	161.6	168.0	187.2	160.5	169.1	204.4	279.3	308.2	321.0	340.3	365.9
77.5°	52.4	52.4	58.8	73.8	92.0	113.4	142.3	154.1	173.3	194.7	212.9
80°	26.7	27.8	33.2	40.7	51.4	65.3	83.5	88.8	98.4	110.2	117.7
82.5°	12.8	13.9	16.0	20.3	26.7	34.2	46.0	51.4	57.8	65.3	70.6
85°	3.2	3.2	4.3	6.4	8.6	12.8	17.1	20.3	25.7	31.0	34.2
87.5°	0.0	0.0	0.0	0.0	0.0	1.1	3.2	4.3	5.3	6.4	8.6
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°	1990.2	1990.2	1990.2	1990.2	1990.2	1990.2	1990.2	1990.2	1990.2	1990.2	1990.2
2.5°	2027.6	1967.7	1890.7	1825.4	1765.5	1719.5	1679.9	1660.6	1642.4	1629.6	1633.9
5°	2083.3	1980.6	1837.2	1737.7	1676.7	1645.6	1624.2	1613.5	1611.4	1602.8	1599.6
7.5°	2164.6	2018.0	1826.5	1725.9	1685.2	1669.2	1657.4	1651.0	1654.2	1645.6	1642.4
10°	2265.2	2080.1	1853.2	1764.4	1729.1	1717.3	1704.5	1695.9	1691.7	1678.8	1676.7
12.5°	2390.4	2157.1	1901.4	1813.6	1778.3	1758.0	1740.9	1725.9	1716.3	1700.2	1695.9
15°	2525.2	2242.7	1958.1	1861.8	1820.1	1790.1	1762.3	1739.8	1722.7	1701.3	1698.1
17.5°	2671.8	2332.6	2005.2	1895.0	1841.5	1801.9	1761.2	1728.0	1704.5	1676.7	1673.5
20°	2824.8	2423.5	2040.5	1911.0	1842.5	1789.0	1734.5	1690.6	1660.6	1632.8	1630.7
22.5°	2983.1	2507.0	2061.9	1906.7	1825.4	1759.1	1693.8	1644.6	1609.3	1576.1	1574.0
25°	3142.6	2587.2	2067.2	1889.6	1791.2	1714.1	1648.9	1591.1	1551.5	1514.0	1509.8
27.5°	3304.1	2654.6	2054.4	1855.4	1745.2	1661.7	1596.4	1539.7	1499.1	1461.6	1455.2
30°	3476.4	2712.4	2026.6	1810.4	1691.7	1606.1	1541.9	1499.1	1460.5	1423.1	1416.7
32.5°	3660.4	2762.7	1987.0	1755.9	1629.6	1550.4	1503.3	1464.8	1426.3	1393.1	1386.7
35°	3879.8	2795.9	1928.1	1685.2	1571.8	1509.8	1477.7	1432.7	1385.6	1349.3	1346.0
37.5°	4106.6	2821.6	1857.5	1617.8	1521.5	1486.2	1459.5	1398.5	1339.6	1295.8	1290.4
40°	4326.0	2843.0	1769.8	1554.7	1475.5	1469.1	1432.7	1356.7	1255.1	1205.9	1201.6
42.5°	4530.3	2849.4	1677.7	1487.3	1433.8	1430.6	1389.9	1272.2	1194.1	1163.1	1158.8
45°	4670.5	2844.0	1582.5	1424.2	1392.1	1374.9	1332.1	1211.2	1163.1	1135.3	1129.9
47.5°	4774.3	2816.2	1475.5	1357.8	1345.0	1321.4	1229.4	1172.7	1127.8	1099.9	1094.6
50°	4756.1	2700.7	1367.4	1293.6	1288.3	1267.9	1154.5	1124.6	1085.0	1055.0	1050.7
52.5°	4661.9	2481.3	1257.2	1223.0	1233.7	1194.1	1101.0	1066.8	1032.5	998.3	990.8
55°	4685.5	2322.9	1173.8	1154.5	1173.8	1083.9	1041.1	1004.7	972.6	939.5	933.0
57.5°	4788.2	2166.7	1085.0	1080.7	1101.0	999.4	964.1	918.1	872.0	845.3	845.3
60°	4021.0	1579.3	928.8	939.5	985.5	930.9	899.9	852.8	802.5	779.0	779.0
62.5°	2377.5	990.8	770.4	758.6	787.5	821.8	838.9	800.4	740.4	709.4	710.5
65°	1047.5	721.2	679.4	669.8	661.3	684.8	731.9	735.1	672.0	635.6	636.6
67.5°	645.2	652.7	635.6	628.1	620.6	616.3	612.0	614.2	597.1	563.9	562.8
70°	582.1	602.4	590.6	584.2	574.6	567.1	541.4	499.7	470.8	462.2	471.9
72.5°	500.8	528.6	522.2	518.9	507.2	489.0	454.7	414.1	379.8	358.4	362.7
75°	377.7	400.2	403.4	404.5	391.6	374.5	339.2	304.9	275.0	252.5	257.9
77.5°	217.2	230.0	233.3	236.5	226.8	220.4	196.9	172.3	156.2	132.7	139.1
80°	120.9	126.3	126.3	127.3	122.0	114.5	98.4	84.5	77.0	66.3	67.4
82.5°	72.8	74.9	76.0	77.0	73.8	66.3	54.6	44.9	40.7	35.3	34.2
85°	35.3	37.4	37.4	38.5	33.2	28.9	22.5	17.1	15.0	10.7	11.8
87.5°	8.6	9.6	9.6	8.6	7.5	5.3	3.2	1.1	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)