

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: P636572

Luminaire Tested: GWS-SA4B-722-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636572
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-SA4B-722-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9099.8 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

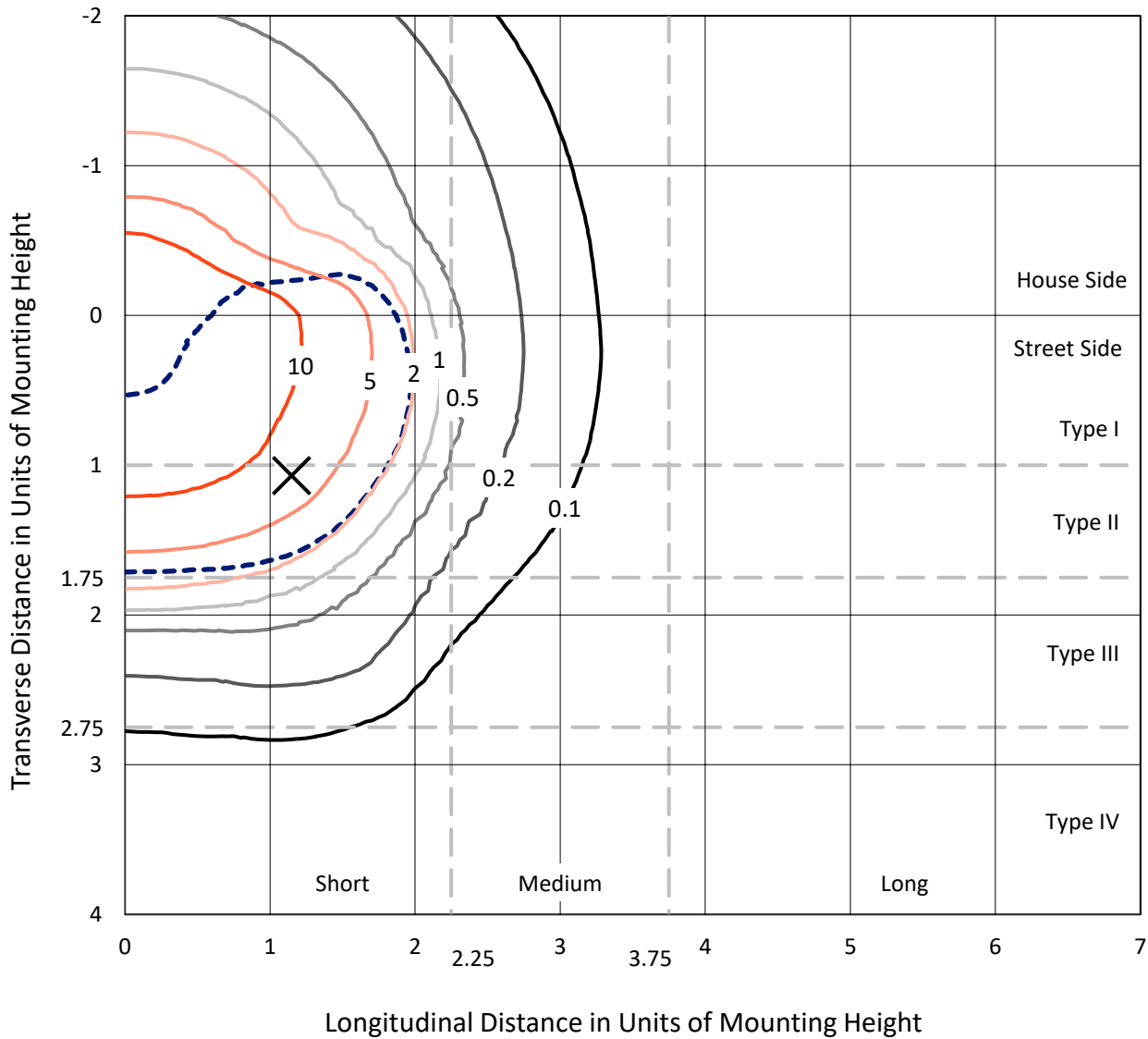
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

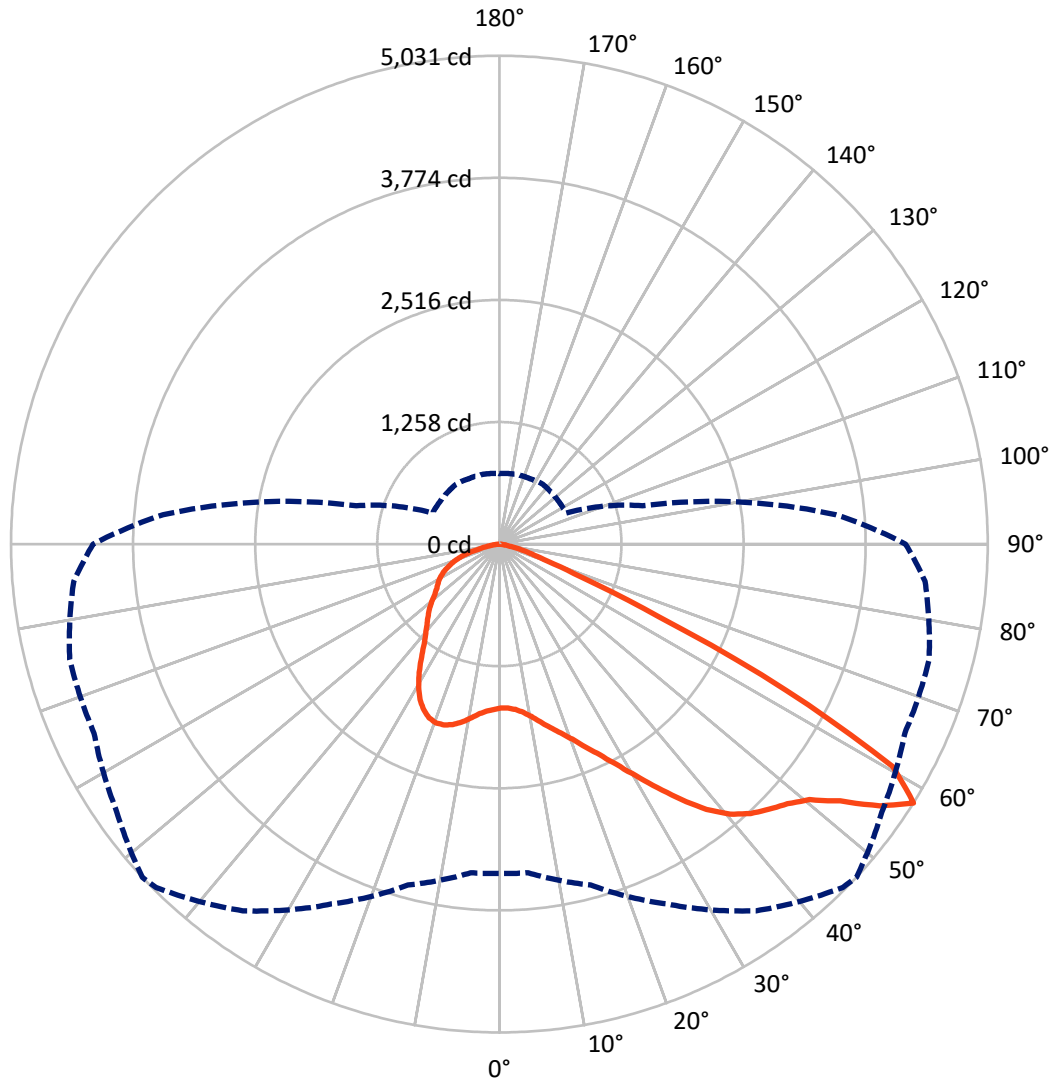
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.8 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	2880.1	0.0	2880.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	6219.7	0.0	6219.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	9099.8	0.0	9099.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	1.8
10°-20°	547.5	6.0
20°-30°	985.8	10.8
30°-40°	1488.9	16.4
40°-50°	2004.9	22.0
50°-60°	2409.2	26.5
60°-70°	1173.3	12.9
70°-80°	289.1	3.2
80°-90°	34.7	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°	9099.8	100.0
0°-180°	9099.8	100.0

Coefficient of Utilization



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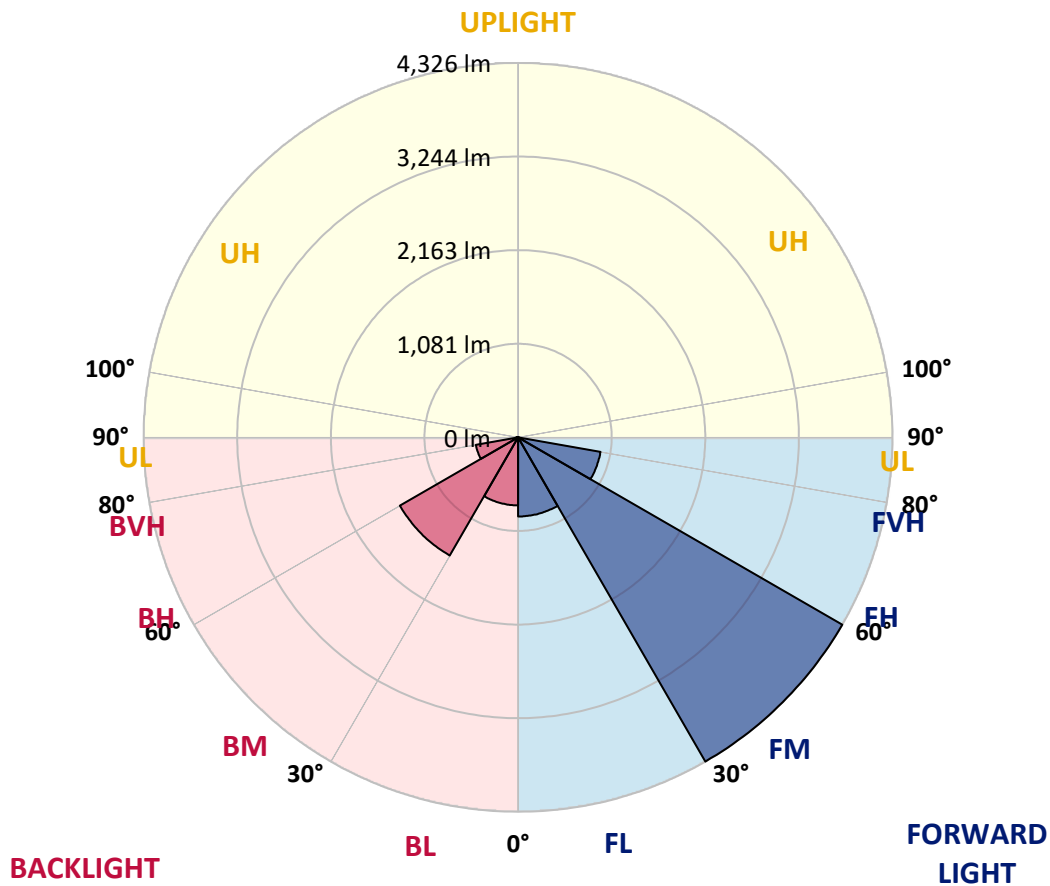
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	914.0	10.0			
FM (30°-60°)	4325.6	47.5			
FH (60°-80°)	967.0	10.6			G1/1800
FVH (80°-90°)	13.1	0.1			G1/100
BL (0°-30°)	785.6	8.6	B2/1000		
BM (30°-60°)	1577.4	17.3	B2/2500		
BH (60°-80°)	495.3	5.4	B1/500		G1/500
BVH (80°-90°)	21.7	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°	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6
2.5°	1684.5	1683.7	1683.7	1688.3	1688.3	1689.9	1692.2	1694.4	1695.2	1691.4	1683.0
5°	1702.9	1702.9	1702.9	1706.7	1706.7	1708.2	1711.3	1712.0	1711.3	1705.1	1696.7
7.5°	1731.9	1731.9	1732.7	1737.3	1741.1	1743.4	1748.7	1748.0	1745.7	1735.7	1725.0
10°	1779.3	1781.6	1783.9	1789.2	1796.9	1802.2	1806.0	1806.0	1803.0	1787.7	1773.9
12.5°	1846.5	1849.6	1851.9	1856.5	1862.6	1871.8	1880.2	1880.2	1876.4	1857.2	1836.6
15°	1925.3	1928.3	1927.6	1929.1	1940.6	1953.5	1960.4	1965.0	1966.5	1939.8	1907.7
17.5°	2015.5	2018.5	2015.5	2010.9	2012.4	2033.0	2045.3	2062.1	2072.0	2036.1	1984.9
20°	2097.2	2094.2	2094.2	2097.2	2101.8	2127.0	2145.4	2172.9	2185.1	2141.6	2062.1
22.5°	2183.6	2190.5	2187.4	2187.4	2205.8	2247.8	2270.0	2305.9	2318.9	2262.3	2155.3
25°	2295.2	2301.3	2299.8	2301.3	2322.7	2382.3	2404.5	2471.0	2484.0	2403.0	2258.5
27.5°	2417.5	2427.4	2432.0	2430.5	2464.9	2542.8	2570.3	2662.8	2686.5	2560.4	2368.6
30°	2576.5	2587.2	2591.0	2589.4	2630.0	2736.2	2767.5	2873.0	2906.6	2746.9	2508.4
32.5°	2760.6	2771.3	2782.8	2787.4	2839.4	2947.9	2993.0	3102.3	3150.4	2962.4	2677.3
35°	2943.3	2952.5	2974.6	3010.6	3081.7	3192.5	3232.2	3340.0	3386.6	3186.4	2881.4
37.5°	3145.1	3151.2	3170.3	3220.0	3322.4	3427.9	3467.6	3570.8	3576.2	3402.7	3112.2
40°	3366.0	3366.0	3362.1	3411.1	3518.1	3624.3	3658.7	3718.3	3687.0	3569.3	3336.9
42.5°	3553.2	3550.2	3553.2	3599.1	3678.6	3764.9	3794.7	3783.3	3743.5	3696.9	3540.2
45°	3722.1	3724.4	3751.9	3787.1	3828.4	3879.6	3897.2	3832.2	3796.3	3799.3	3703.0
47.5°	3836.8	3839.1	3903.3	3962.1	3987.3	4003.4	3995.8	3905.6	3887.2	3921.6	3828.4
50°	3852.1	3864.3	3975.1	4095.9	4158.5	4160.8	4139.4	4029.4	4024.0	4063.0	3895.6
52.5°	3855.1	3867.4	4005.7	4223.5	4386.3	4420.7	4396.2	4281.6	4225.8	4186.8	3978.2
55°	3843.7	3857.4	4010.3	4309.1	4620.9	4758.5	4760.8	4598.8	4420.7	4394.7	4213.6
57.5°	3393.5	3398.8	3635.8	4091.3	4611.8	5001.6	5031.4	4811.3	4608.0	4583.5	4402.4
60°	2364.0	2385.4	2642.9	3244.4	3874.2	4561.3	4657.6	4593.4	4457.4	4279.3	3777.2
62.5°	1183.9	1202.2	1460.6	2029.2	2672.0	3214.6	3317.8	3385.8	3417.9	3226.9	2571.9
65°	509.8	523.5	684.0	1060.1	1512.5	1774.7	1810.6	1892.4	2092.6	1867.2	1385.7
67.5°	340.9	350.0	431.8	646.6	891.2	908.0	902.6	920.2	963.8	795.6	626.0
70°	261.4	269.0	324.1	473.9	640.5	548.0	519.0	470.8	511.3	521.3	507.5
72.5°	189.5	195.7	236.9	323.3	401.3	350.0	345.5	369.9	424.9	440.2	431.8
75°	122.3	125.3	150.6	177.3	207.1	224.7	233.9	278.2	334.0	345.5	335.5
77.5°	81.8	84.1	98.6	113.9	117.7	118.5	121.5	141.4	179.6	201.0	198.7
80°	42.8	42.8	48.2	48.2	55.0	65.7	68.8	81.8	99.4	110.1	110.8
82.5°	16.8	17.6	20.6	22.9	27.5	33.6	35.9	42.8	52.0	59.6	66.5
85°	6.9	7.6	8.4	9.9	12.2	15.3	16.1	18.3	24.5	30.6	34.4
87.5°	0.0	0.0	0.8	0.8	1.5	2.3	2.3	3.1	3.8	6.9	9.2
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°	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6
2.5°	1692.9	1683.0	1692.9	1696.0	1704.4	1707.4	1702.1	1701.3	1701.3	1693.7	1691.4
5°	1704.4	1695.2	1705.1	1709.7	1722.0	1729.6	1731.1	1737.3	1741.1	1738.0	1737.3
7.5°	1732.7	1721.2	1731.9	1738.8	1754.8	1767.1	1772.4	1786.2	1796.1	1794.6	1793.8
10°	1782.3	1767.1	1779.3	1790.8	1808.3	1822.9	1823.6	1831.3	1841.2	1838.1	1836.6
12.5°	1839.7	1825.1	1838.9	1850.4	1871.0	1877.1	1867.2	1864.1	1865.7	1861.8	1858.8
15°	1910.0	1889.3	1901.6	1914.6	1926.0	1919.2	1897.8	1889.3	1888.6	1883.2	1880.2
17.5°	1980.3	1954.3	1963.5	1970.4	1965.0	1943.6	1916.9	1902.3	1895.5	1884.8	1881.7
20°	2049.8	2017.0	2015.5	2010.1	1985.6	1946.7	1910.7	1881.7	1864.1	1849.6	1844.3
22.5°	2129.3	2083.5	2060.5	2036.1	1982.6	1919.2	1864.9	1823.6	1795.3	1777.0	1770.9
25°	2214.9	2150.0	2102.6	2053.7	1952.0	1860.3	1784.6	1728.1	1694.4	1674.6	1667.7
27.5°	2299.8	2210.4	2139.3	2056.0	1890.9	1775.5	1673.8	1597.4	1563.8	1547.7	1542.4
30°	2414.4	2290.6	2182.8	2026.2	1810.6	1657.8	1530.9	1453.7	1431.5	1420.1	1415.5
32.5°	2546.6	2392.3	2240.9	1963.5	1708.2	1520.2	1386.4	1332.9	1317.7	1295.5	1294.7
35°	2720.9	2537.5	2296.0	1871.0	1579.0	1372.7	1275.6	1237.4	1209.9	1174.7	1171.7
37.5°	2924.2	2718.6	2325.8	1753.3	1428.5	1251.2	1193.1	1150.3	1105.9	1059.3	1053.2
40°	3134.4	2930.3	2328.1	1614.2	1281.0	1170.9	1122.0	1066.2	1011.2	959.2	952.3
42.5°	3355.3	3127.5	2287.5	1453.7	1160.2	1101.4	1051.7	981.4	919.5	884.3	880.5
45°	3552.5	3286.5	2195.8	1284.8	1070.8	1043.3	979.8	904.2	871.3	846.1	840.7
47.5°	3707.6	3392.0	2072.0	1133.5	998.2	983.7	901.1	862.1	836.9	814.0	808.6
50°	3784.0	3415.6	1910.7	1010.4	930.9	913.3	856.8	827.0	810.2	791.8	787.2
52.5°	3878.8	3442.4	1771.6	907.2	865.2	841.5	820.1	796.4	784.2	772.7	768.9
55°	4096.6	3543.3	1698.3	824.7	802.5	791.8	788.8	768.9	765.1	757.4	750.5
57.5°	4185.3	3478.3	1524.8	757.4	752.8	754.4	762.0	743.7	739.8	730.7	726.1
60°	3366.0	2629.2	1032.6	699.3	711.6	721.5	729.1	710.8	705.4	703.9	697.8
62.5°	2156.9	1617.3	720.7	645.1	663.4	675.6	680.2	662.6	658.8	671.1	671.8
65°	1122.8	881.2	584.7	587.0	602.3	620.6	629.8	623.7	622.1	635.1	635.9
67.5°	573.2	538.8	509.8	518.2	530.4	554.1	575.5	602.3	611.4	613.0	613.7
70°	488.4	473.1	458.6	463.9	476.9	489.9	510.6	523.5	508.3	504.4	502.9
72.5°	415.8	404.3	397.4	403.5	410.4	408.1	402.0	408.1	410.4	411.2	412.0
75°	323.3	314.9	309.5	310.3	310.3	301.9	290.4	283.6	275.9	269.8	269.8
77.5°	198.0	199.5	204.8	204.1	203.3	200.2	188.8	182.7	164.3	159.0	159.0
80°	113.1	115.4	120.8	122.3	122.3	118.5	107.0	100.1	91.7	87.9	87.1
82.5°	68.8	71.8	74.9	76.4	77.2	72.6	62.7	57.3	52.7	48.9	48.9
85°	35.9	37.5	40.5	41.3	39.0	34.4	29.0	26.8	22.2	21.4	21.4
87.5°	9.9	10.7	12.2	9.9	9.2	6.9	3.8	3.1	1.5	0.8	0.8
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)