

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: P632612

Luminaire Tested: GWS-SA2D-722-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632612  
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-SA2D-722-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

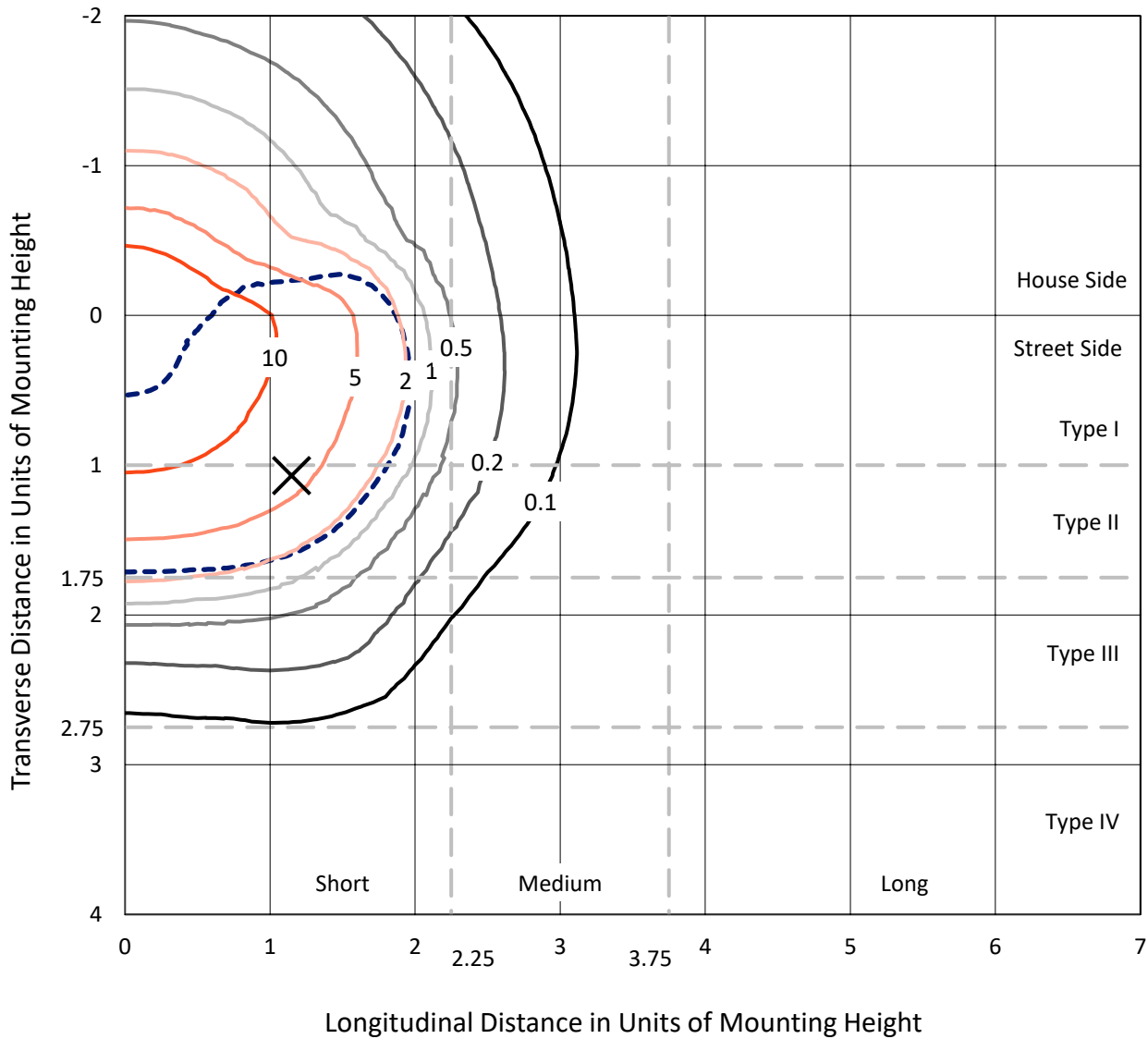
Lumens per Lamp: N/A  
Luminaire Lumens: 7340.6 lumens  
Efficiency: N/A  
Efficacy: 89.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

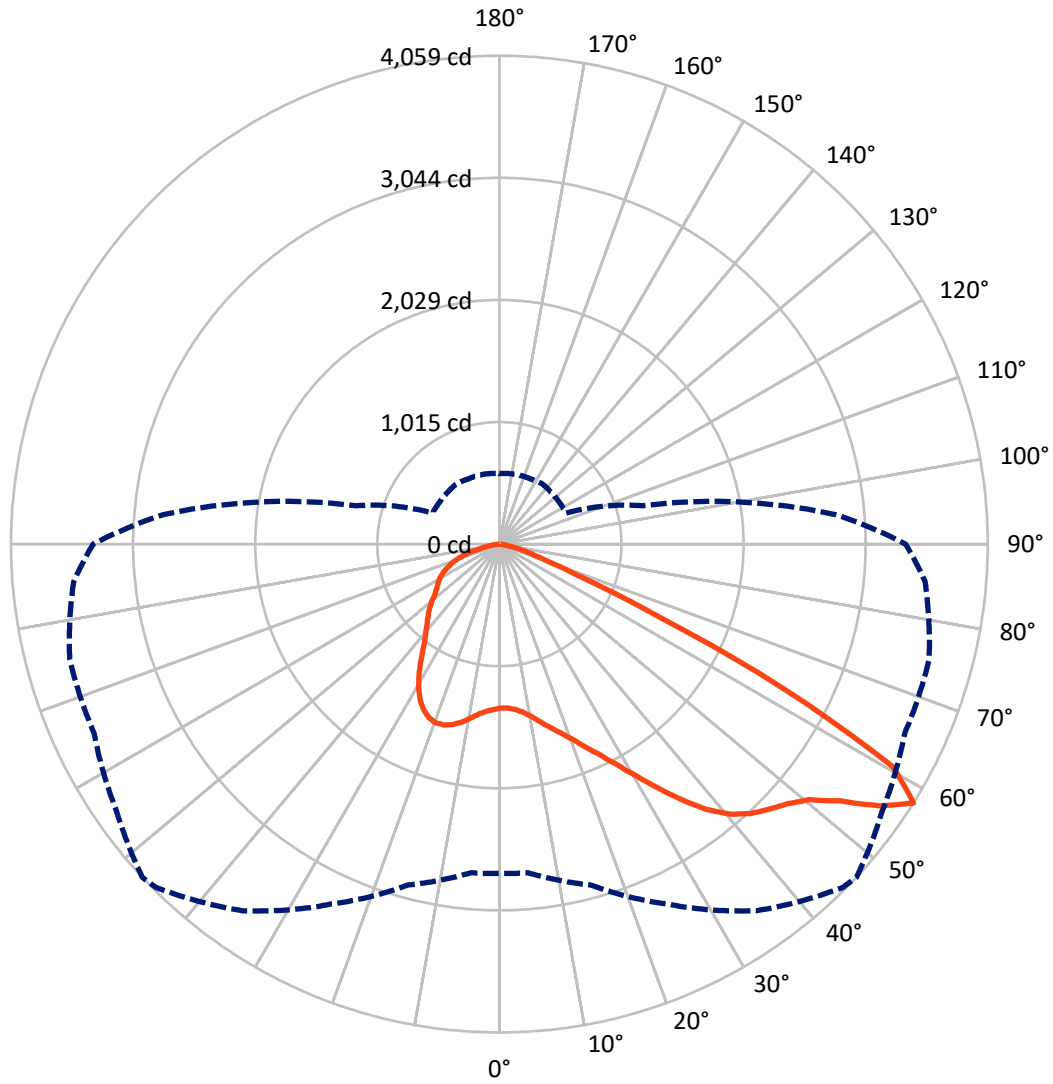
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.2 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
<b>House Side</b>	Lumens	2323.3	0.0	2323.3
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	5017.3	0.0	5017.3
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	7340.6	0.0	7340.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.3	1.8
10°-20°	441.6	6.0
20°-30°	795.2	10.8
30°-40°	1201.0	16.4
40°-50°	1617.3	22.0
50°-60°	1943.4	26.5
60°-70°	946.5	12.9
70°-80°	233.2	3.2
80°-90°	28.0	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°	7340.6	100.0
0°-180°	7340.6	100.0

**Coefficient of Utilization**



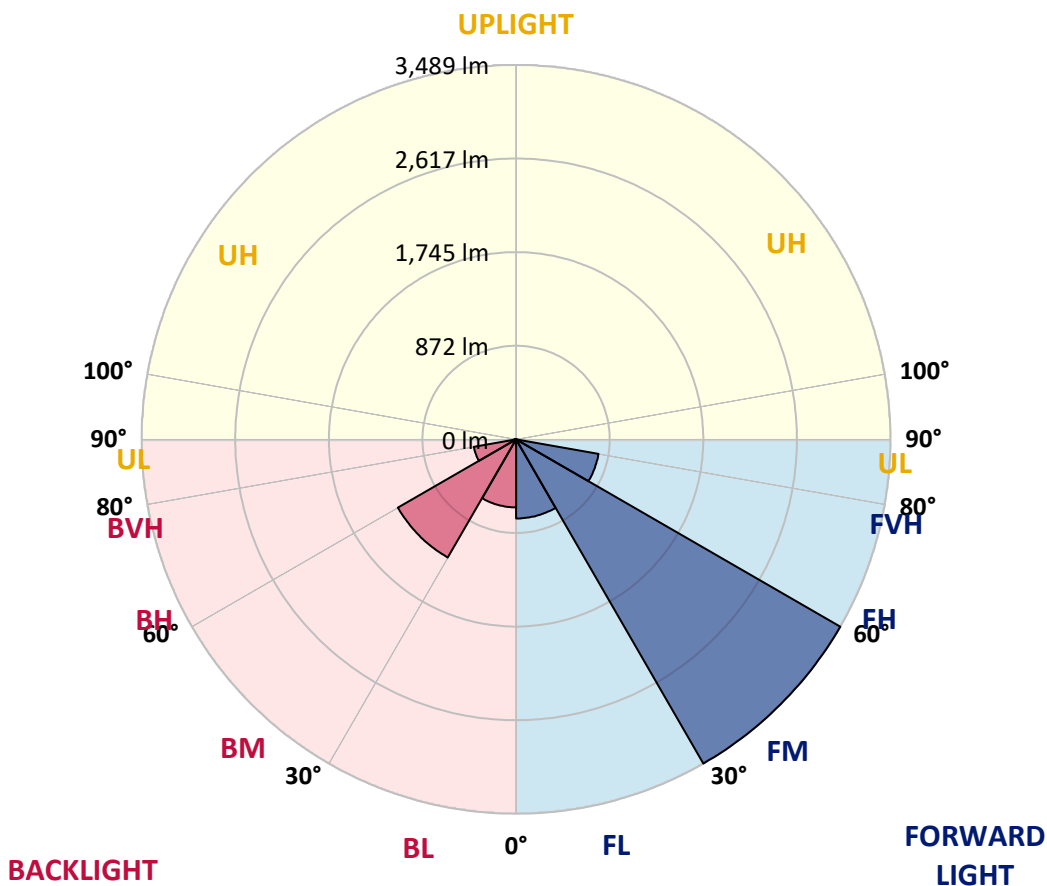
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	737.3	10.0			
FM (30°-60°)	3489.4	47.5			
FH (60°-80°)	780.1	10.6			G1/1800
FVH (80°-90°)	10.5	0.1			G1/100
BL (0°-30°)	633.7	8.6	B2/1000		
BM (30°-60°)	1272.4	17.3	B2/2500		
BH (60°-80°)	399.6	5.4	B1/500		G1/500
BVH (80°-90°)	17.5	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°	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3
2.5°	1358.9	1358.2	1358.2	1361.9	1361.9	1363.2	1365.0	1366.9	1367.5	1364.4	1357.6
5°	1373.7	1373.7	1373.7	1376.7	1376.7	1378.0	1380.4	1381.1	1380.4	1375.5	1368.7
7.5°	1397.1	1397.1	1397.7	1401.4	1404.5	1406.3	1410.6	1410.0	1408.2	1400.2	1391.5
10°	1435.3	1437.2	1439.0	1443.3	1449.5	1453.8	1456.9	1456.9	1454.4	1442.1	1431.0
12.5°	1489.6	1492.0	1493.9	1497.6	1502.5	1509.9	1516.7	1516.7	1513.6	1498.2	1481.6
15°	1553.1	1555.5	1554.9	1556.2	1565.4	1575.9	1581.4	1585.1	1586.4	1564.8	1538.9
17.5°	1625.8	1628.3	1625.8	1622.1	1623.4	1640.0	1649.9	1663.4	1671.4	1642.5	1601.2
20°	1691.8	1689.3	1689.3	1691.8	1695.5	1715.8	1730.6	1752.8	1762.7	1727.6	1663.4
22.5°	1761.5	1767.0	1764.5	1764.5	1779.3	1813.3	1831.1	1860.1	1870.6	1825.0	1738.6
25°	1851.5	1856.4	1855.2	1856.4	1873.7	1921.8	1939.6	1993.3	2003.8	1938.4	1821.9
27.5°	1950.1	1958.1	1961.8	1960.6	1988.3	2051.2	2073.4	2148.0	2167.1	2065.4	1910.7
30°	2078.4	2087.0	2090.1	2088.8	2121.5	2207.2	2232.5	2317.6	2344.7	2215.9	2023.5
32.5°	2226.9	2235.6	2244.8	2248.5	2290.5	2378.0	2414.4	2502.5	2541.4	2389.7	2159.7
35°	2374.3	2381.7	2399.6	2428.6	2485.9	2575.3	2607.4	2694.3	2731.9	2570.4	2324.4
37.5°	2537.1	2542.0	2557.4	2597.5	2680.1	2765.2	2797.3	2880.5	2884.8	2744.8	2510.6
40°	2715.3	2715.3	2712.2	2751.6	2837.9	2923.6	2951.4	2999.5	2974.2	2879.3	2691.8
42.5°	2866.3	2863.8	2866.3	2903.3	2967.4	3037.1	3061.1	3051.9	3019.8	2982.2	2855.8
45°	3002.6	3004.4	3026.6	3055.0	3088.3	3129.6	3143.7	3091.3	3062.4	3064.8	2987.1
47.5°	3095.0	3096.9	3148.7	3196.2	3216.5	3229.4	3223.3	3150.5	3135.7	3163.5	3088.3
50°	3107.4	3117.2	3206.6	3304.0	3354.6	3356.5	3339.2	3250.4	3246.1	3277.5	3142.5
52.5°	3109.8	3119.7	3231.3	3407.0	3538.3	3566.1	3546.3	3453.9	3408.9	3377.4	3209.1
55°	3100.6	3111.7	3235.0	3476.1	3727.6	3838.6	3840.4	3709.7	3566.1	3545.1	3399.0
57.5°	2737.4	2741.8	2932.9	3300.3	3720.2	4034.7	4058.7	3881.1	3717.1	3697.4	3551.3
60°	1907.0	1924.2	2132.0	2617.2	3125.3	3679.5	3757.2	3705.4	3595.7	3452.0	3047.0
62.5°	955.0	969.8	1178.2	1636.9	2155.4	2593.2	2676.4	2731.3	2757.2	2603.0	2074.7
65°	411.2	422.3	551.8	855.1	1220.1	1431.6	1460.6	1526.6	1688.1	1506.2	1117.8
67.5°	275.0	282.4	348.3	521.6	718.9	732.5	728.1	742.3	777.5	641.8	504.9
70°	210.9	217.0	261.4	382.3	516.7	442.1	418.6	379.8	412.5	420.5	409.4
72.5°	152.9	157.8	191.1	260.8	323.7	282.4	278.7	298.4	342.8	355.1	348.3
75°	98.6	101.1	121.5	143.0	167.1	181.3	188.7	224.4	269.4	278.7	270.7
77.5°	66.0	67.8	79.5	91.9	94.9	95.6	98.0	114.1	144.9	162.2	160.3
80°	34.5	34.5	38.8	38.8	44.4	53.0	55.5	66.0	80.2	88.8	89.4
82.5°	13.6	14.2	16.6	18.5	22.2	27.1	29.0	34.5	41.9	48.1	53.6
85°	5.5	6.2	6.8	8.0	9.9	12.3	12.9	14.8	19.7	24.7	27.7
87.5°	0.0	0.0	0.6	0.6	1.2	1.8	1.8	2.5	3.1	5.5	7.4
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°	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3
2.5°	1365.6	1357.6	1365.6	1368.1	1374.9	1377.4	1373.0	1372.4	1372.4	1366.3	1364.4
5°	1374.9	1367.5	1375.5	1379.2	1389.1	1395.2	1396.5	1401.4	1404.5	1402.0	1401.4
7.5°	1397.7	1388.5	1397.1	1402.6	1415.6	1425.4	1429.8	1440.9	1448.9	1447.6	1447.0
10°	1437.8	1425.4	1435.3	1444.6	1458.7	1470.5	1471.1	1477.2	1485.2	1482.8	1481.6
12.5°	1484.0	1472.3	1483.4	1492.6	1509.3	1514.2	1506.2	1503.7	1505.0	1501.9	1499.4
15°	1540.7	1524.1	1534.0	1544.4	1553.7	1548.1	1530.9	1524.1	1523.5	1519.2	1516.7
17.5°	1597.5	1576.5	1583.9	1589.4	1585.1	1567.9	1546.3	1534.6	1529.0	1520.4	1517.9
20°	1653.6	1627.1	1625.8	1621.5	1601.8	1570.3	1541.4	1517.9	1503.7	1492.0	1487.7
22.5°	1717.7	1680.7	1662.2	1642.5	1599.3	1548.1	1504.4	1471.1	1448.3	1433.5	1428.5
25°	1786.7	1734.3	1696.1	1656.6	1574.6	1500.7	1439.6	1394.0	1366.9	1350.8	1345.3
27.5°	1855.2	1783.0	1725.7	1658.5	1525.3	1432.2	1350.2	1288.6	1261.4	1248.5	1244.2
30°	1947.7	1847.8	1760.8	1634.5	1460.6	1337.3	1234.9	1172.7	1154.8	1145.5	1141.8
32.5°	2054.3	1929.8	1807.7	1583.9	1378.0	1226.3	1118.4	1075.2	1062.9	1045.0	1044.4
35°	2194.9	2046.9	1852.1	1509.3	1273.8	1107.3	1029.0	998.2	976.0	947.6	945.2
37.5°	2358.9	2193.0	1876.1	1414.3	1152.3	1009.3	962.4	927.9	892.1	854.5	849.6
40°	2528.4	2363.8	1878.0	1302.1	1033.3	944.5	905.1	860.1	815.7	773.8	768.2
42.5°	2706.6	2522.9	1845.3	1172.7	935.9	888.4	848.4	791.6	741.7	713.3	710.3
45°	2865.7	2651.1	1771.3	1036.4	863.8	841.6	790.4	729.4	702.9	682.5	678.2
47.5°	2990.8	2736.2	1671.4	914.3	805.2	793.5	726.9	695.5	675.1	656.6	652.3
50°	3052.5	2755.3	1541.4	815.1	750.9	736.8	691.1	667.1	653.5	638.7	635.0
52.5°	3129.0	2776.9	1429.1	731.8	697.9	678.8	661.5	642.4	632.6	623.3	620.2
55°	3304.7	2858.3	1370.0	665.2	647.4	638.7	636.3	620.2	617.2	611.0	605.4
57.5°	3376.2	2805.9	1230.0	611.0	607.3	608.5	614.7	599.9	596.8	589.4	585.7
60°	2715.3	2120.9	832.9	564.1	574.0	582.0	588.2	573.4	569.1	567.8	562.9
62.5°	1739.9	1304.6	581.4	520.4	535.2	545.0	548.7	534.5	531.5	541.3	541.9
65°	905.7	710.9	471.7	473.5	485.8	500.6	508.0	503.1	501.9	512.3	513.0
67.5°	462.4	434.7	411.2	418.0	427.9	447.0	464.3	485.8	493.2	494.5	495.1
70°	394.0	381.6	369.9	374.2	384.7	395.2	411.9	422.3	410.0	406.9	405.7
72.5°	335.4	326.2	320.6	325.5	331.1	329.2	324.3	329.2	331.1	331.7	332.3
75°	260.8	254.0	249.7	250.3	250.3	243.5	234.3	228.7	222.6	217.6	217.6
77.5°	159.7	160.9	165.2	164.6	164.0	161.5	152.3	147.4	132.6	128.2	128.2
80°	91.2	93.1	97.4	98.6	98.6	95.6	86.3	80.8	74.0	70.9	70.3
82.5°	55.5	58.0	60.4	61.7	62.3	58.6	50.6	46.2	42.5	39.5	39.5
85°	29.0	30.2	32.7	33.3	31.4	27.7	23.4	21.6	17.9	17.3	17.3
87.5°	8.0	8.6	9.9	8.0	7.4	5.5	3.1	2.5	1.2	0.6	0.6
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)