

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: P632616

Luminaire Tested: GWS-SA2D-722-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-722-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY 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: 7540.4 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

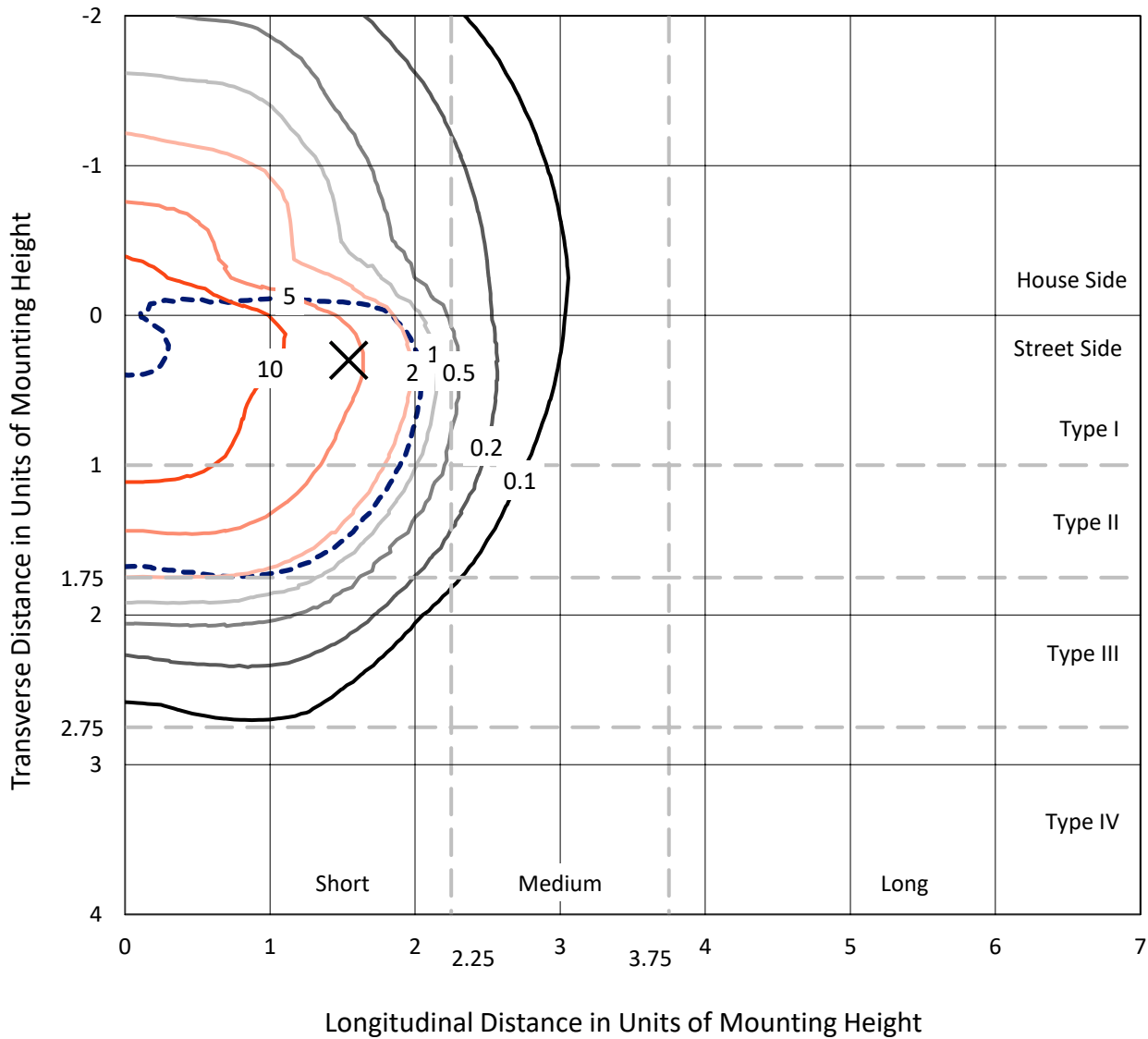
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

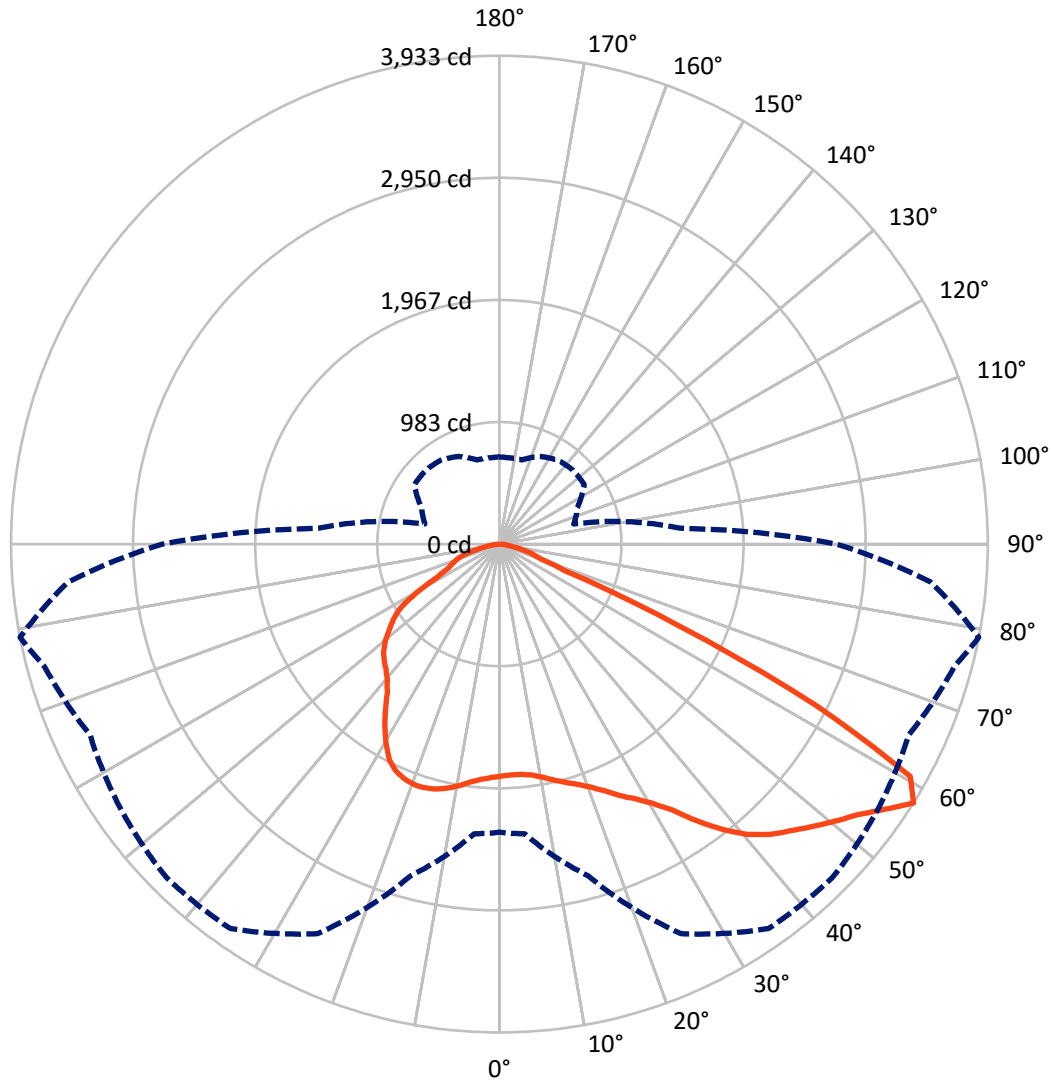
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2241.4	0.0	2241.4
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	5299.0	0.0	5299.0
	% Fixture	70.3	0.0	70.3
Total	Lumens	7540.4	0.0	7540.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.1	2.3
10°-20°	480.9	6.4
20°-30°	815.2	10.8
30°-40°	1247.7	16.5
40°-50°	1663.8	22.1
50°-60°	1921.5	25.5
60°-70°	998.5	13.2
70°-80°	212.2	2.8
80°-90°	27.5	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°	7540.4	100.0
0°-180°	7540.4	100.0

Coefficient of Utilization



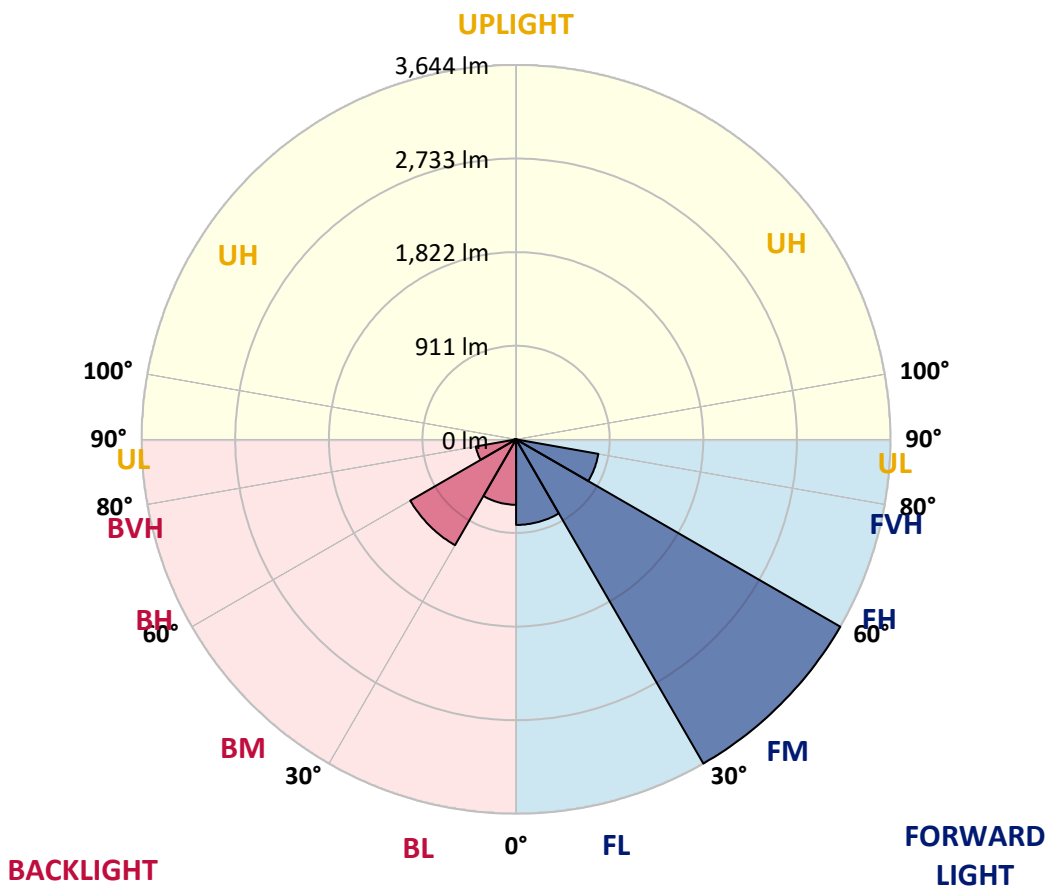
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	832.6	11.0			
FM (30°-60°)	3643.7	48.3			
FH (60°-80°)	813.0	10.8			G1/1800
FVH (80°-90°)	9.6	0.1			G0/10
BL (0°-30°)	636.5	8.4	B2/1000		
BM (30°-60°)	1189.3	15.8	B2/2500		
BH (60°-80°)	397.7	5.3	B1/500		G1/500
BVH (80°-90°)	17.9	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°	55°	65°	75°	79°	85°
0°	1868.7	1868.7	1868.7	1868.7	1868.7	1868.7	1868.7	1868.7	1868.7	1868.7	1868.7
2.5°	1783.6	1779.9	1781.1	1786.1	1804.6	1818.1	1832.3	1845.3	1857.6	1861.3	1864.4
5°	1720.1	1713.3	1715.2	1723.2	1744.8	1767.6	1792.9	1823.7	1853.3	1863.1	1876.1
7.5°	1675.1	1673.9	1676.9	1689.3	1712.1	1733.7	1766.3	1810.1	1861.3	1877.9	1900.7
10°	1615.3	1612.8	1625.2	1650.4	1688.0	1722.6	1761.4	1813.2	1884.7	1909.4	1944.5
12.5°	1567.8	1566.6	1579.5	1614.7	1662.8	1717.6	1771.3	1829.2	1916.2	1950.1	1993.2
15°	1595.6	1590.0	1590.6	1615.3	1658.5	1723.2	1795.9	1858.2	1947.6	1990.8	2046.2
17.5°	1676.3	1666.5	1659.1	1663.4	1688.0	1755.2	1833.5	1897.0	1984.0	2034.5	2102.3
20°	1787.9	1782.4	1762.0	1748.5	1754.0	1813.2	1892.7	1951.9	2031.4	2088.2	2160.9
22.5°	1937.7	1924.2	1896.4	1874.9	1858.2	1904.4	1977.8	2029.0	2097.4	2156.6	2232.4
25°	2123.3	2103.6	2059.8	2025.9	1990.1	2037.6	2103.0	2141.8	2188.0	2242.9	2315.0
27.5°	2312.6	2295.9	2247.2	2201.6	2157.2	2186.8	2264.5	2286.7	2281.8	2321.8	2383.5
30°	2514.2	2493.2	2447.0	2397.7	2340.3	2359.4	2429.1	2440.2	2387.8	2421.1	2463.0
32.5°	2726.9	2706.5	2666.5	2609.1	2544.4	2551.8	2570.9	2581.4	2531.4	2550.6	2582.6
35°	2943.3	2924.2	2883.5	2826.8	2779.3	2734.3	2686.2	2728.1	2699.1	2736.1	2733.7
37.5°	3141.2	3122.1	3096.8	3053.0	2971.6	2882.9	2771.9	2823.7	2868.7	2915.5	2907.5
40°	3275.0	3262.0	3268.2	3261.4	3156.6	2980.9	2813.8	2870.5	2993.2	3073.4	3069.1
42.5°	3390.3	3377.3	3413.1	3439.0	3315.7	3071.5	2834.2	2888.4	3072.8	3197.9	3191.7
45°	3441.4	3437.7	3496.9	3578.9	3461.2	3167.7	2886.6	2925.4	3133.2	3293.5	3270.0
47.5°	3380.4	3393.4	3509.9	3648.6	3582.0	3281.8	2993.8	3003.7	3212.1	3397.0	3331.1
50°	3258.9	3287.3	3444.5	3650.4	3670.2	3410.6	3142.4	3117.8	3318.1	3507.4	3363.1
52.5°	3082.0	3111.6	3368.1	3636.3	3720.7	3559.8	3340.3	3305.2	3451.9	3617.8	3368.7
55°	2675.7	2715.8	3193.0	3604.2	3770.0	3695.4	3563.5	3492.0	3624.5	3769.4	3423.6
57.5°	2321.2	2342.2	2766.3	3461.8	3779.9	3795.3	3722.6	3637.5	3795.9	3933.4	3485.2
60°	1703.5	1708.4	2090.0	2864.4	3477.2	3737.4	3709.6	3583.2	3714.6	3802.1	3202.8
62.5°	962.4	963.0	1267.6	1911.8	2597.4	3046.2	3063.5	2951.9	2841.6	2867.5	2229.4
65°	361.3	395.2	578.9	939.6	1497.5	1798.4	1869.9	1895.8	1712.1	1598.0	1195.4
67.5°	241.7	249.7	337.9	483.4	666.5	769.4	860.7	863.1	631.3	562.9	471.0
70°	184.3	192.4	265.7	345.9	337.9	312.0	337.2	328.0	339.1	348.3	358.2
72.5°	137.5	145.5	205.9	244.1	202.8	199.8	226.3	251.5	275.0	284.8	300.2
75°	91.2	97.4	138.7	130.7	112.2	132.6	165.2	190.5	204.1	215.8	227.5
77.5°	58.0	62.3	74.0	59.8	62.3	77.7	96.2	119.0	131.9	143.7	149.8
80°	26.5	25.9	25.3	28.4	35.1	45.6	58.0	71.5	81.4	86.3	90.0
82.5°	10.5	11.7	12.9	15.4	19.1	24.7	32.7	41.9	49.9	51.2	54.3
85°	4.3	4.9	5.5	6.8	8.6	11.1	13.6	19.1	24.0	25.9	27.7
87.5°	0.0	0.0	0.0	0.0	0.6	1.2	1.8	3.1	5.5	6.2	6.8
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°	1868.7	1868.7	1868.7	1868.7	1868.7	1868.7	1868.7	1868.7	1868.7	1868.7	1868.7
2.5°	1881.0	1873.0	1886.6	1895.8	1904.4	1895.2	1892.1	1884.1	1882.9	1882.9	1887.2
5°	1898.3	1892.7	1906.9	1912.5	1911.8	1891.5	1879.2	1863.1	1855.1	1855.1	1856.4
7.5°	1929.1	1926.0	1934.0	1925.4	1905.7	1864.4	1823.7	1789.8	1767.0	1755.2	1758.9
10°	1980.3	1976.6	1969.8	1937.7	1881.0	1795.3	1712.1	1650.4	1613.4	1592.5	1593.7
12.5°	2030.2	2024.0	2000.0	1929.1	1812.6	1676.3	1567.2	1498.2	1457.5	1432.8	1427.3
15°	2085.1	2069.1	2017.3	1884.7	1701.0	1530.8	1416.8	1342.2	1298.4	1283.6	1283.0
17.5°	2137.5	2109.1	2015.4	1805.8	1567.2	1378.5	1263.9	1217.6	1210.2	1217.0	1218.9
20°	2190.5	2144.9	1995.1	1696.7	1408.1	1226.9	1167.7	1186.8	1214.6	1233.0	1237.4
22.5°	2245.4	2174.5	1948.8	1556.1	1240.4	1124.5	1149.2	1191.1	1225.7	1250.3	1252.8
25°	2307.0	2202.2	1879.8	1384.1	1106.0	1096.2	1144.9	1189.3	1226.3	1254.6	1259.6
27.5°	2342.2	2202.8	1783.0	1207.2	1044.4	1085.1	1134.4	1176.3	1213.3	1244.1	1249.7
30°	2376.7	2186.2	1629.5	1063.5	1026.5	1072.1	1116.5	1155.4	1190.5	1220.7	1227.5
32.5°	2425.4	2170.8	1452.5	980.9	1016.0	1059.8	1096.2	1130.7	1157.8	1171.4	1175.1
35°	2485.8	2151.1	1264.5	945.1	1009.3	1049.9	1082.0	1100.5	1065.4	1058.0	1066.0
37.5°	2570.3	2132.6	1077.1	929.7	1004.9	1046.2	1074.6	1027.1	984.0	966.7	972.9
40°	2661.5	2122.1	950.1	917.4	1006.8	1049.9	1043.8	973.5	911.2	874.8	873.6
42.5°	2739.2	2106.0	868.7	909.4	1011.7	1064.1	1001.9	926.0	833.5	812.0	812.6
45°	2791.6	2065.4	825.5	900.7	1016.0	1067.2	982.1	860.7	794.7	781.1	780.5
47.5°	2813.2	1991.4	797.8	887.2	1015.4	1041.9	942.0	833.5	767.6	763.9	766.3
50°	2799.0	1869.9	769.4	860.7	1000.6	1015.4	895.8	809.5	749.1	769.4	784.2
52.5°	2746.6	1712.7	735.5	824.3	974.1	985.2	872.4	794.7	735.5	762.6	774.4
55°	2733.1	1585.1	692.4	776.8	934.7	931.6	847.7	787.3	726.3	715.8	717.6
57.5°	2715.2	1460.5	620.8	691.7	834.8	839.7	824.3	778.7	702.2	699.1	702.2
60°	2358.8	1119.6	553.6	596.8	685.6	712.1	797.8	762.6	663.4	650.4	649.8
62.5°	1540.7	678.2	492.6	520.3	558.6	589.4	727.5	716.4	620.8	612.8	618.4
65°	828.6	483.4	448.2	464.9	485.8	509.2	603.0	638.1	561.0	532.7	533.3
67.5°	423.6	411.2	414.9	426.6	442.7	454.4	486.4	517.3	478.4	454.4	453.8
70°	362.5	372.4	377.9	384.7	395.2	393.3	396.4	402.0	398.9	387.2	386.6
72.5°	308.9	324.3	325.5	326.8	330.5	321.8	316.3	307.0	307.6	309.5	310.1
75°	234.9	249.7	253.4	251.5	255.2	244.1	236.7	227.5	216.4	214.6	215.8
77.5°	152.9	164.6	170.2	168.9	170.8	162.1	158.4	148.6	135.6	130.7	130.7
80°	92.5	99.3	103.6	104.8	106.7	100.5	94.3	85.7	80.1	74.6	74.6
82.5°	56.1	60.4	63.5	63.5	65.4	58.6	53.6	47.5	45.0	40.1	40.1
85°	28.4	31.4	32.7	32.1	30.8	25.3	23.4	20.3	19.1	16.6	16.6
87.5°	6.8	8.6	8.6	6.2	6.2	3.1	1.8	0.6	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)