

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: P637572

Luminaire Tested: GWS-SA4D-722-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-722-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17883.9 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

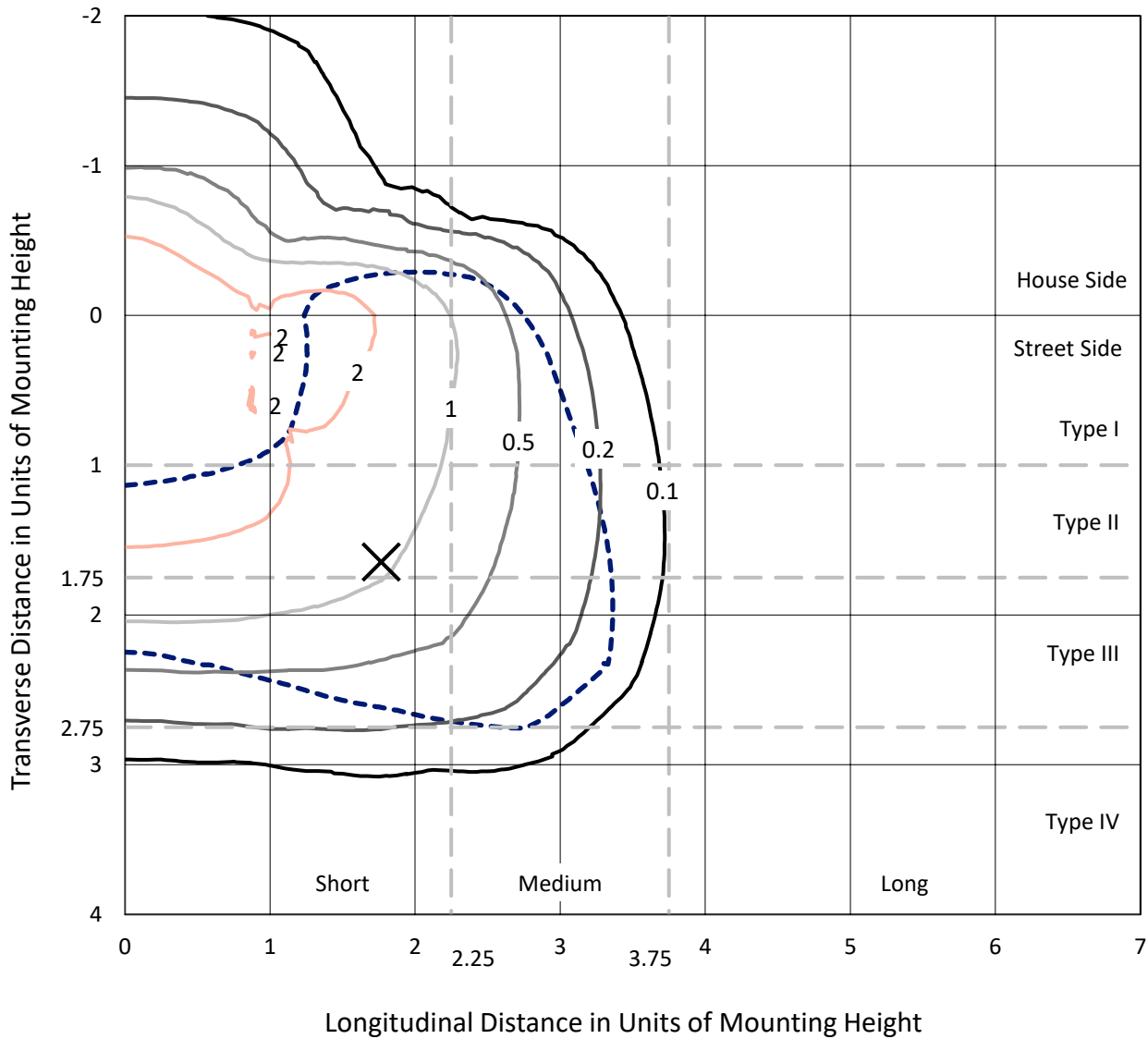
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637572
 CATALOG NUMBER: GWS-SA4D-722-U-T4W-W

Iso-Footcandle Lines of Horizontal Illumination

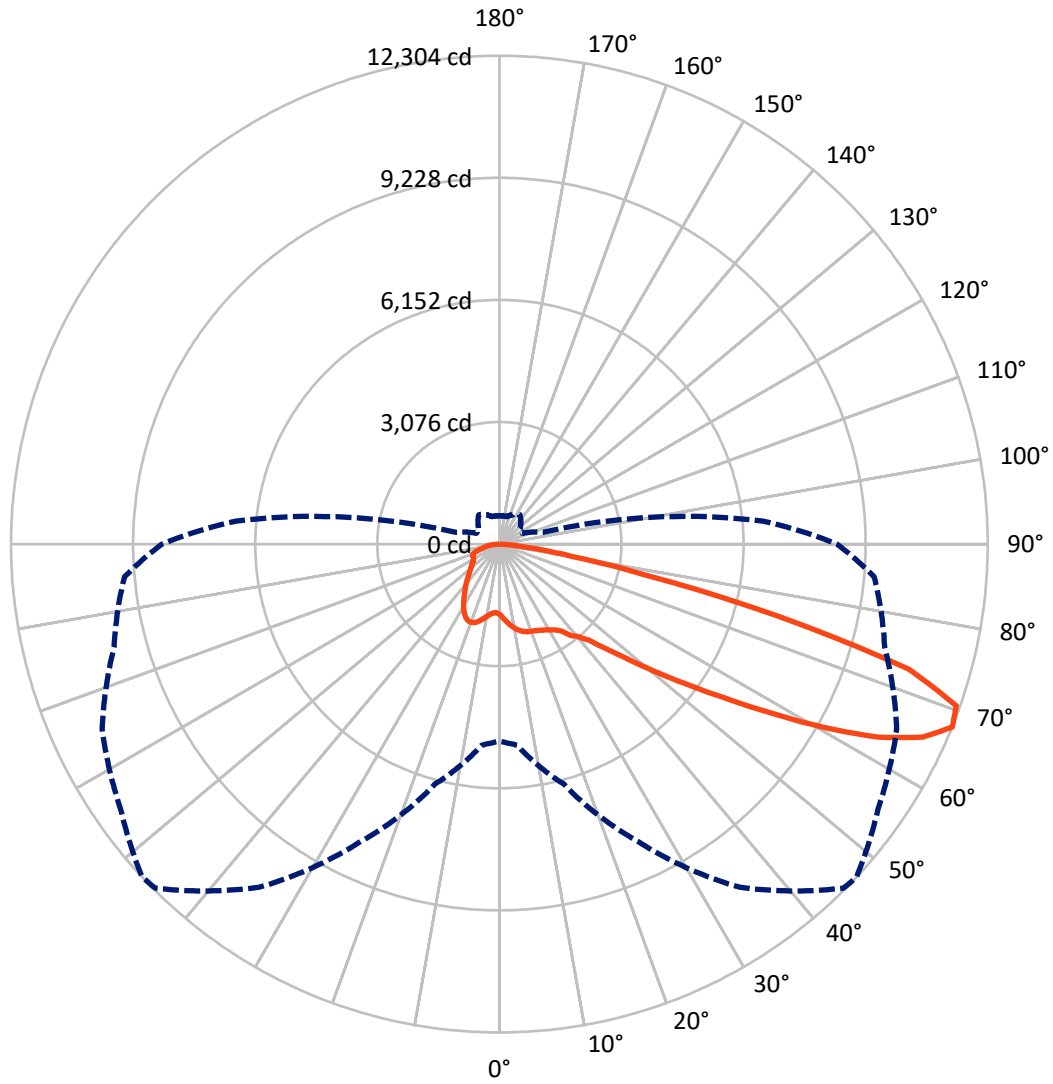
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - N/A

REPORT NUMBER: P637572
CATALOG NUMBER: GWS-SA4D-722-U-T4W-W

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P637572

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4075.9	0.0	4075.9
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	13808.0	0.0	13808.0
	% Fixture	77.2	0.0	77.2
Total	Lumens	17883.9	0.0	17883.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.2	1.0
10°-20°	603.7	3.4
20°-30°	1026.1	5.7
30°-40°	1503.1	8.4
40°-50°	2290.1	12.8
50°-60°	4097.4	22.9
60°-70°	5467.6	30.6
70°-80°	2472.6	13.8
80°-90°	242.2	1.4
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°	17883.9	100.0
0°-180°	17883.9	100.0

Coefficient of Utilization



REPORT NUMBER: P637572

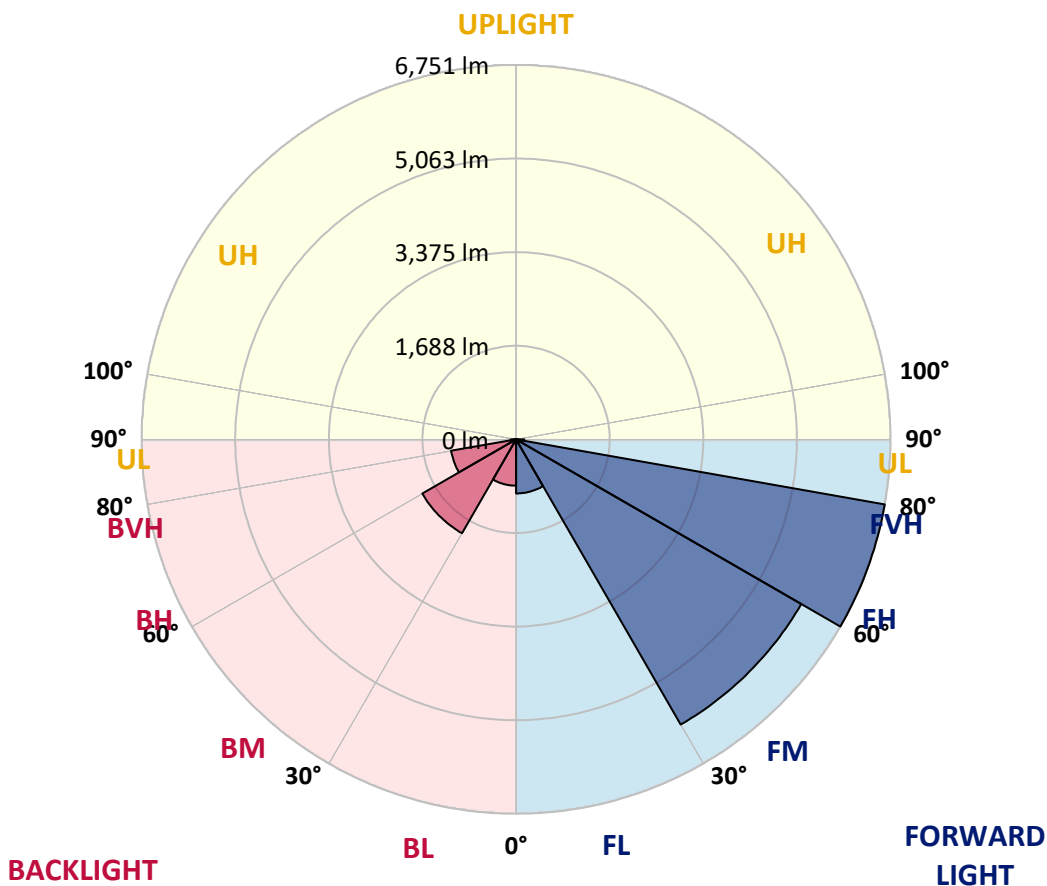
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	975.3	5.5			
FM (30°-60°)	5937.6	33.2			
FH (60°-80°)	6751.0	37.7			G3/7500
FVH (80°-90°)	144.1	0.8			G2/225
BL (0°-30°)	835.6	4.7	B2/1000		
BM (30°-60°)	1953.0	10.9	B2/2500		
BH (60°-80°)	1189.2	6.6	B3/2500		G3/2500
BVH (80°-90°)	98.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





REPORT NUMBER: P637572
 CATALOG NUMBER: GWS-SA4D-722-U-T4W-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9
2.5°	1890.5	1897.0	1895.7	1885.4	1878.9	1867.3	1868.6	1850.4	1823.3	1805.2	1784.5
5°	2057.3	2067.7	2054.8	2037.9	2012.1	1974.6	1970.7	1929.3	1877.6	1841.4	1803.9
7.5°	2202.2	2208.6	2193.1	2164.7	2127.2	2076.7	2067.7	2018.6	1953.9	1897.0	1842.7
10°	2314.7	2322.4	2301.7	2264.2	2215.1	2164.7	2158.2	2107.8	2039.2	1972.0	1903.5
12.5°	2410.4	2413.0	2391.0	2340.5	2287.5	2235.8	2229.3	2182.8	2119.4	2050.9	1975.9
15°	2466.0	2467.3	2440.1	2384.5	2334.1	2288.8	2284.9	2244.8	2186.7	2122.0	2041.8
17.5°	2462.1	2464.7	2445.3	2396.1	2352.2	2325.0	2321.1	2295.3	2250.0	2191.8	2111.7
20°	2414.2	2416.8	2403.9	2371.6	2348.3	2340.5	2341.8	2334.1	2306.9	2259.1	2177.6
22.5°	2376.7	2380.6	2369.0	2345.7	2343.1	2361.2	2365.1	2369.0	2356.1	2313.4	2234.5
25°	2394.8	2401.3	2383.2	2350.9	2356.1	2396.1	2403.9	2416.8	2406.5	2370.3	2301.7
27.5°	2520.3	2524.2	2477.6	2411.7	2396.1	2438.8	2450.5	2471.1	2463.4	2429.8	2376.7
30°	2811.2	2808.6	2709.1	2547.4	2482.8	2499.6	2508.6	2538.4	2541.0	2519.0	2468.6
32.5°	3221.1	3208.2	3054.3	2797.0	2609.5	2568.1	2578.5	2618.6	2648.3	2625.0	2556.5
35°	3654.3	3642.7	3473.3	3172.0	2843.6	2700.0	2688.4	2719.4	2764.7	2700.0	2601.7
37.5°	4066.8	4048.7	3875.5	3503.0	3131.9	2931.5	2914.7	2883.6	2856.5	2732.4	2657.4
40°	4524.6	4503.9	4352.6	3931.1	3450.0	3108.6	3066.0	2943.1	2918.6	2839.7	2802.2
42.5°	5013.4	5013.4	4888.0	4472.9	3834.1	3362.1	3306.5	3121.6	3147.4	3095.7	3051.8
45°	5502.2	5516.4	5416.9	5018.6	4347.5	3840.6	3751.3	3488.8	3550.9	3527.6	3505.6
47.5°	5918.6	5945.7	5926.3	5575.9	4975.9	4422.5	4286.7	4013.8	4147.0	4202.6	4264.7
50°	6367.3	6397.0	6377.6	6239.3	5711.7	5127.2	5005.6	4723.7	4952.6	5119.4	5322.5
52.5°	7033.3	7075.9	6914.3	6861.3	6605.2	5927.6	5819.0	5498.3	5913.4	6190.1	6642.7
55°	7595.8	7594.5	7537.6	7659.1	7564.7	6906.5	6786.3	6495.3	7025.5	7319.0	7981.1
57.5°	7857.0	7888.0	8083.3	8427.2	8616.0	8102.7	7987.6	7690.2	8219.0	8371.6	9086.7
60°	7991.4	8030.2	8407.8	9088.0	9596.2	9408.7	9363.4	8984.6	9282.0	9263.9	10019.1
62.5°	7802.7	7880.2	8486.7	9390.6	10295.8	10721.2	10707.0	10134.1	10185.9	10008.7	10597.1
65°	6936.3	7020.3	7972.1	9239.3	10695.4	11719.5	11723.4	11175.1	10880.3	10370.8	10500.1
67.5°	4960.4	5080.6	6257.4	8266.9	10554.4	12258.7	12304.0	11647.1	11043.2	10050.1	9481.1
70°	2703.9	2791.8	3713.8	6009.1	9284.6	12129.4	12213.5	11419.5	10324.2	8693.6	7298.3
72.5°	1228.5	1256.9	1727.6	3297.4	6342.7	10440.6	10792.3	10191.0	8479.0	6421.6	4641.0
75°	562.5	575.4	752.6	1577.6	3314.3	6986.7	7233.7	7590.6	5900.5	4055.2	2419.4
77.5°	353.0	356.9	428.0	721.6	1652.6	3487.5	3747.4	4519.4	3455.2	2006.9	1011.2
80°	208.2	212.1	266.4	390.5	775.9	1595.7	1842.7	1787.1	1624.2	866.4	460.3
82.5°	104.7	108.6	153.9	222.4	422.8	634.9	747.4	751.3	605.2	469.4	259.9
85°	37.5	38.8	50.4	87.9	179.7	209.5	234.1	285.8	296.1	272.8	125.4
87.5°	0.0	0.0	1.3	2.6	5.2	20.7	22.0	41.4	86.6	97.0	50.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637572
 CATALOG NUMBER: GWS-SA4D-722-U-T4W-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9
2.5°	1778.0	1758.6	1752.2	1745.7	1735.4	1731.5	1723.7	1716.0	1716.0	1708.2	1704.3
5°	1787.1	1761.2	1744.4	1736.7	1730.2	1734.1	1734.1	1736.7	1745.7	1740.5	1743.1
7.5°	1819.4	1789.7	1766.4	1759.9	1759.9	1775.4	1785.8	1798.7	1815.5	1818.1	1818.1
10°	1876.3	1841.4	1816.8	1812.9	1819.4	1841.4	1856.9	1872.4	1893.1	1894.4	1897.0
12.5°	1938.4	1903.5	1878.9	1884.1	1890.5	1919.0	1935.8	1948.7	1969.4	1969.4	1968.1
15°	2003.0	1964.2	1943.6	1953.9	1973.3	2005.6	2008.2	2009.5	2019.8	2017.3	2016.0
17.5°	2070.3	2028.9	2013.4	2028.9	2049.6	2065.1	2052.2	2034.1	2030.2	2025.0	2022.4
20°	2136.2	2093.6	2087.1	2098.7	2105.2	2092.3	2052.2	2018.6	2003.0	1995.3	1992.7
22.5°	2193.1	2156.9	2153.0	2153.0	2120.7	2075.4	2016.0	1970.7	1950.0	1939.7	1937.1
25°	2260.4	2226.7	2220.3	2185.4	2102.6	2019.8	1939.7	1898.3	1881.5	1876.3	1877.6
27.5°	2339.2	2316.0	2295.3	2195.7	2050.9	1921.6	1831.1	1812.9	1806.5	1812.9	1816.8
30°	2436.2	2413.0	2366.4	2182.8	1968.1	1793.6	1706.9	1705.6	1725.0	1741.8	1744.4
32.5°	2515.1	2504.8	2428.5	2141.4	1851.7	1652.6	1578.9	1584.1	1619.0	1642.3	1646.1
35°	2577.2	2594.0	2480.2	2072.9	1713.4	1519.4	1461.2	1463.8	1483.2	1515.5	1516.8
37.5°	2665.1	2722.0	2526.7	1968.1	1554.3	1404.3	1351.3	1331.9	1329.3	1338.4	1341.0
40°	2842.3	2927.6	2560.4	1815.5	1400.4	1300.9	1241.4	1203.9	1171.6	1147.0	1139.2
42.5°	3109.9	3208.2	2579.8	1630.6	1263.4	1198.7	1131.5	1083.6	1026.7	975.0	956.9
45°	3601.3	3633.7	2579.8	1434.1	1141.8	1103.0	1035.8	978.9	906.5	845.7	832.8
47.5°	4387.5	4284.1	2582.4	1244.0	1034.5	1019.0	960.8	896.1	816.0	765.5	757.8
50°	5572.0	5208.7	2635.4	1086.2	945.3	947.9	905.2	834.1	761.6	724.1	717.7
52.5°	6914.3	6347.9	2777.6	969.8	870.3	889.7	866.4	797.9	733.2	700.9	694.4
55°	8176.4	7395.3	2899.2	887.1	806.9	840.5	839.2	775.9	717.7	685.4	681.5
57.5°	9249.7	8113.0	2881.1	819.8	752.6	795.3	814.7	761.6	707.3	680.2	676.3
60°	9916.9	8493.2	2623.7	757.8	711.2	762.9	800.4	757.8	712.5	706.0	707.3
62.5°	10206.6	8423.4	2129.8	711.2	684.1	747.4	816.0	784.9	760.4	775.9	784.9
65°	9756.6	7823.3	1567.3	676.3	658.2	751.3	852.2	827.6	760.4	770.7	774.6
67.5°	8507.4	6659.5	1132.8	641.4	625.9	762.9	903.9	821.1	716.4	716.4	708.6
70°	6130.7	4789.7	822.4	606.5	593.5	746.1	906.5	777.2	666.0	662.1	642.7
72.5°	3689.3	2825.5	641.4	567.7	544.4	662.1	849.6	725.4	616.8	584.5	561.2
75°	1916.4	1416.0	537.9	525.0	466.8	561.2	777.2	645.3	527.6	499.1	486.2
77.5°	821.1	662.1	461.6	468.1	387.9	472.0	627.2	558.6	468.1	431.9	420.3
80°	404.7	376.3	364.7	375.0	310.3	364.7	540.5	488.8	397.0	355.6	338.8
82.5°	231.5	219.8	262.5	266.4	221.1	305.2	456.5	413.8	328.5	283.2	256.0
85°	107.3	115.1	159.1	160.3	137.1	209.5	298.7	232.8	174.6	144.8	138.4
87.5°	42.7	50.4	69.8	68.5	40.1	38.8	25.9	14.2	11.6	10.3	9.1
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)