

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: P637069

Luminaire Tested: GWS-SA4C-722-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-722-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14308.3 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

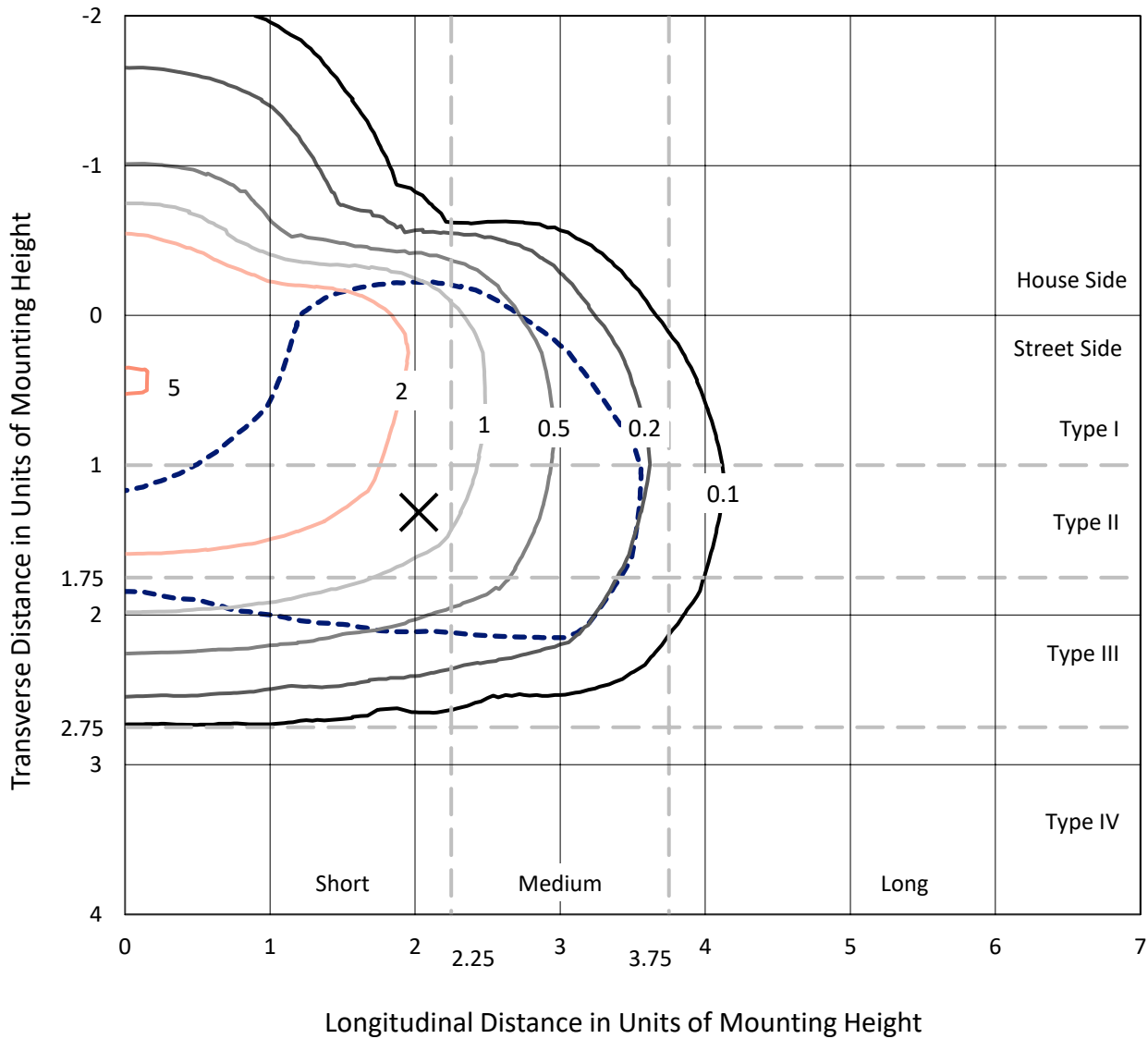
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

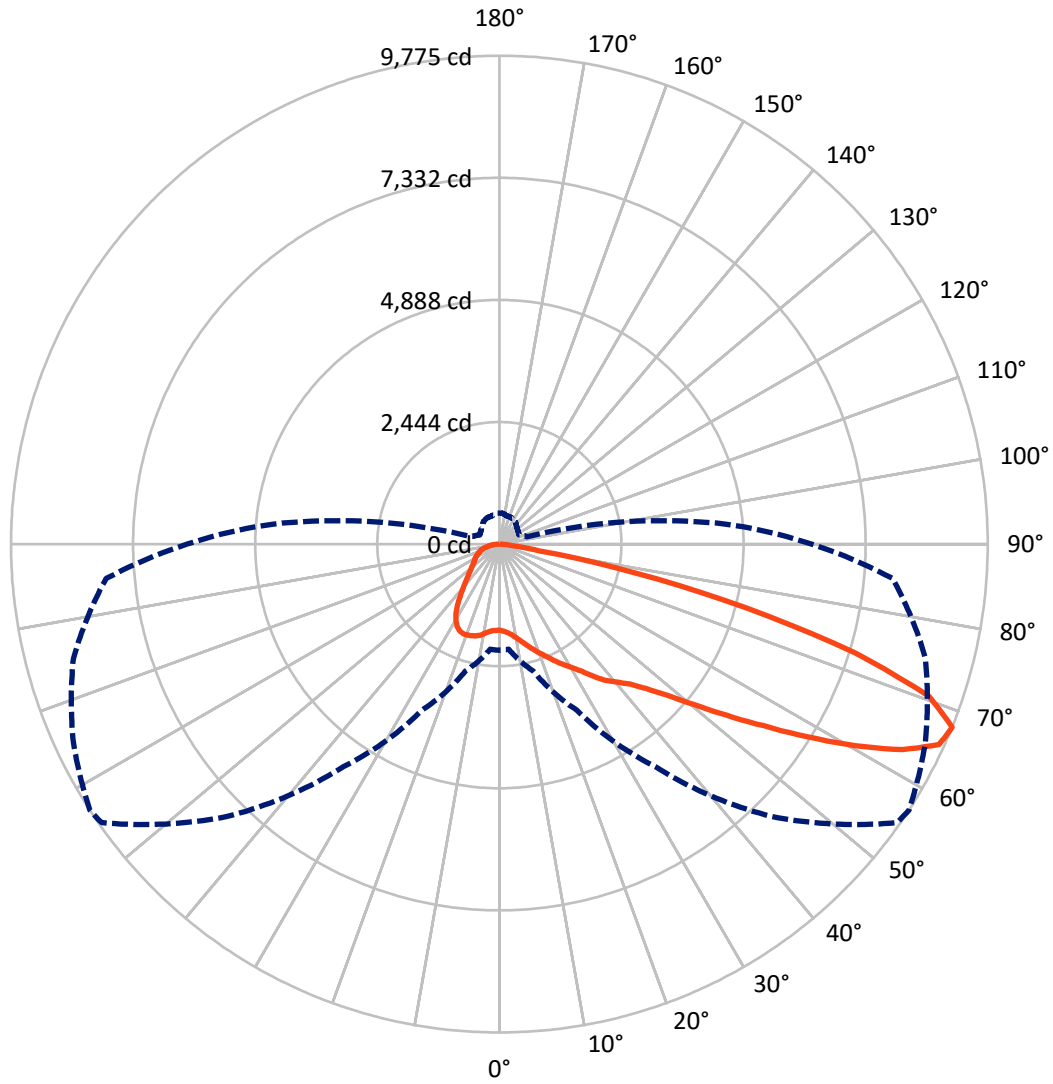
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3145.9	0.0	3145.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	11162.5	0.0	11162.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	14308.3	0.0	14308.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.0	1.2
10°-20°	566.1	4.0
20°-30°	1009.2	7.1
30°-40°	1467.2	10.3
40°-50°	2123.6	14.8
50°-60°	3323.3	23.2
60°-70°	3876.9	27.1
70°-80°	1618.4	11.3
80°-90°	152.7	1.1
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°	14308.3	100.0
0°-180°	14308.3	100.0

Coefficient of Utilization



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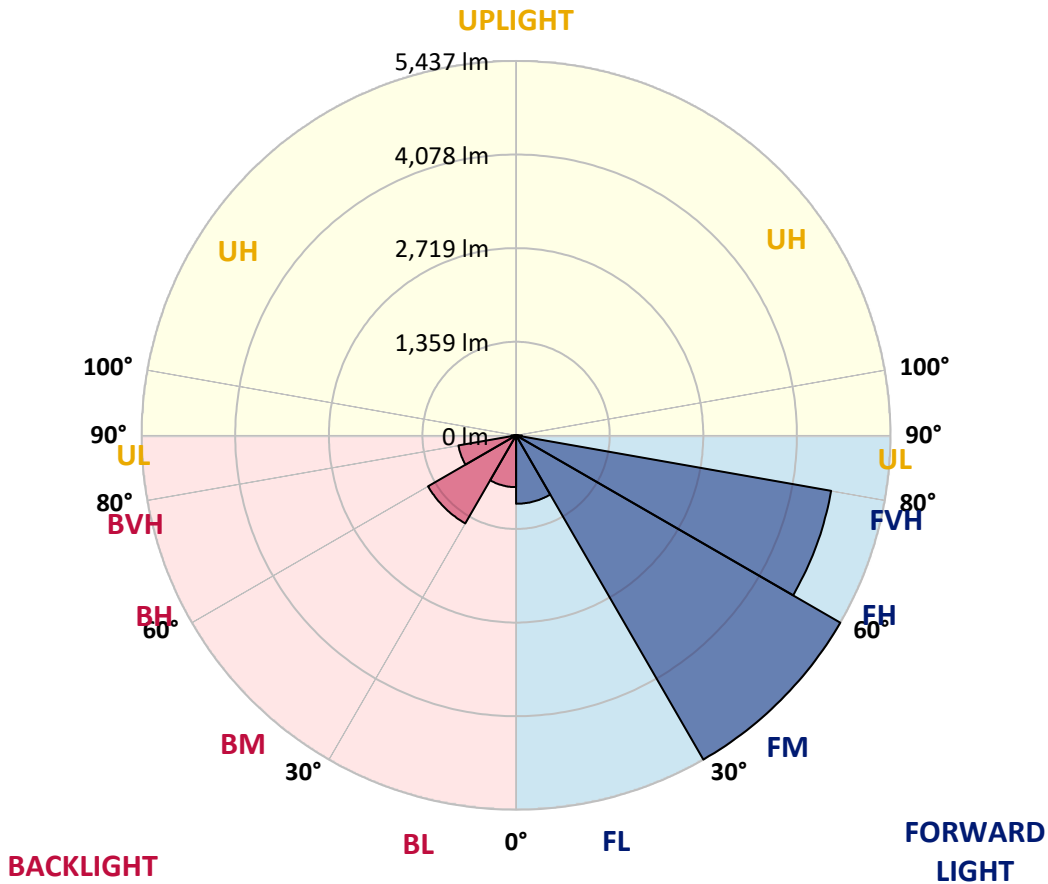
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	993.9	6.9			
FM (30°-60°)	5437.4	38.0			
FH (60°-80°)	4646.2	32.5			G2/5000
FVH (80°-90°)	85.1	0.6			G1/100
BL (0°-30°)	752.4	5.3	B2/1000		
BM (30°-60°)	1476.8	10.3	B2/2500		
BH (60°-80°)	849.1	5.9	B2/1000		G2/1000
BVH (80°-90°)	67.6	0.5			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1
2.5°	1748.7	1746.6	1745.6	1751.7	1749.7	1748.7	1748.7	1747.6	1745.6	1737.4	1726.1
5°	1796.8	1792.7	1788.6	1793.8	1789.7	1785.6	1784.5	1782.5	1775.3	1763.0	1745.6
7.5°	1847.1	1843.0	1844.0	1847.1	1844.0	1841.9	1838.9	1836.8	1825.5	1806.1	1782.5
10°	1917.8	1917.8	1919.8	1922.9	1923.9	1920.9	1914.7	1911.6	1898.3	1873.7	1840.9
12.5°	2020.3	2018.2	2018.2	2016.2	2019.3	2016.2	2010.0	2004.9	1988.5	1956.7	1909.6
15°	2155.6	2147.4	2140.2	2126.9	2122.8	2111.5	2113.6	2110.5	2095.1	2052.1	1992.6
17.5°	2300.1	2299.1	2287.8	2261.2	2234.5	2216.1	2220.2	2219.1	2210.9	2152.5	2076.7
20°	2427.2	2432.3	2422.1	2401.6	2365.7	2330.9	2328.8	2333.9	2323.7	2265.3	2159.7
22.5°	2569.7	2565.6	2555.3	2528.7	2502.0	2465.1	2452.8	2448.7	2444.6	2378.0	2244.8
25°	2705.0	2717.3	2704.0	2679.4	2638.4	2598.4	2588.1	2592.2	2581.0	2492.8	2336.0
27.5°	2876.2	2881.3	2873.1	2839.3	2804.4	2748.0	2728.6	2728.6	2724.5	2600.4	2407.7
30°	3058.6	3073.0	3058.6	3030.9	2995.1	2914.1	2872.1	2868.0	2855.7	2711.1	2491.8
32.5°	3242.1	3252.3	3242.1	3215.4	3174.4	3103.7	3043.2	3034.0	3017.6	2832.1	2577.9
35°	3405.1	3414.3	3412.2	3418.4	3384.6	3295.4	3258.5	3254.4	3211.3	2989.9	2694.7
37.5°	3583.4	3594.7	3579.3	3591.6	3578.3	3494.2	3483.0	3462.5	3401.0	3138.6	2817.7
40°	3786.4	3796.6	3772.0	3777.1	3761.8	3714.6	3657.2	3629.5	3538.3	3299.5	3011.5
42.5°	4003.7	4027.2	4038.5	4029.3	3993.4	3966.8	3866.3	3831.5	3755.6	3589.6	3330.2
45°	4318.3	4353.2	4369.6	4346.0	4330.6	4292.7	4169.7	4127.7	4087.7	3998.5	3775.1
47.5°	4657.6	4689.4	4741.7	4751.9	4764.2	4735.5	4562.3	4521.3	4528.5	4518.2	4322.4
50°	4928.2	4954.9	5072.7	5198.8	5303.4	5311.6	5090.2	5046.1	5085.0	5117.8	4981.5
52.5°	5125.0	5148.6	5304.4	5564.7	5801.5	5976.8	5738.0	5687.7	5719.5	5793.3	5730.8
55°	5284.9	5317.7	5480.7	5880.4	6359.1	6635.9	6483.1	6419.6	6406.3	6497.5	6533.4
57.5°	5369.0	5379.2	5607.8	6127.5	6768.1	7282.6	7349.3	7277.5	7150.4	7200.6	7387.2
60°	5177.3	5194.7	5507.3	6191.0	7091.0	7924.3	8258.4	8199.0	7928.4	7956.1	8162.1
62.5°	4647.4	4672.0	5048.1	5888.6	7117.6	8352.7	9097.9	9060.0	8697.1	8547.5	8609.0
65°	3727.9	3736.1	4125.6	5140.4	6587.7	8406.0	9683.2	9674.0	9234.2	8883.7	8620.3
67.5°	2125.9	2111.5	2632.2	3666.4	5436.6	7713.1	9721.1	9775.4	9408.5	8828.3	7902.8
70°	921.5	923.5	1163.4	1809.1	3518.8	6234.1	9029.2	9122.5	8904.2	7906.9	6287.4
72.5°	426.4	432.6	536.1	783.1	1502.7	3867.3	7362.6	7446.6	7259.1	6328.4	4574.6
75°	301.4	306.5	357.7	449.0	690.9	1506.8	4925.1	5101.4	5192.7	4733.5	3014.5
77.5°	228.6	235.8	261.4	311.6	426.4	534.0	2356.5	2776.7	3307.7	2944.8	1552.9
80°	145.6	145.6	173.2	208.1	260.4	277.8	680.6	806.7	1618.5	1213.6	609.9
82.5°	98.4	101.5	117.9	132.2	149.7	157.9	292.1	311.6	467.4	413.1	251.1
85°	52.3	54.3	61.5	60.5	71.8	62.5	123.0	122.0	171.2	187.6	95.3
87.5°	0.0	0.0	1.0	1.0	2.1	3.1	13.3	14.4	35.9	57.4	31.8
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°	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1
2.5°	1732.3	1720.0	1726.1	1724.1	1730.2	1730.2	1718.9	1715.9	1716.9	1704.6	1700.5
5°	1747.6	1733.3	1736.4	1732.3	1738.4	1743.5	1738.4	1738.4	1744.6	1735.3	1730.2
7.5°	1782.5	1766.1	1766.1	1761.0	1768.1	1772.2	1768.1	1774.3	1785.6	1776.3	1771.2
10°	1837.8	1818.4	1819.4	1813.2	1816.3	1814.3	1797.9	1792.7	1795.8	1787.6	1783.5
12.5°	1909.6	1882.9	1882.9	1870.6	1863.5	1841.9	1808.1	1795.8	1797.9	1790.7	1787.6
15°	1978.3	1953.7	1948.5	1923.9	1891.1	1851.2	1820.4	1812.2	1814.3	1807.1	1802.0
17.5°	2059.2	2027.5	2009.0	1963.9	1903.4	1862.4	1831.7	1812.2	1795.8	1779.4	1775.3
20°	2134.1	2094.1	2060.3	1990.6	1916.8	1860.4	1803.0	1754.8	1714.8	1693.3	1688.2
22.5°	2210.9	2159.7	2100.2	2009.0	1915.7	1823.5	1717.9	1645.1	1585.7	1553.9	1560.1
25°	2283.7	2219.1	2138.2	2026.4	1882.9	1741.5	1598.0	1489.3	1421.7	1397.1	1389.9
27.5°	2344.2	2264.2	2173.0	2018.2	1815.3	1623.6	1434.0	1313.0	1247.4	1219.8	1212.6
30°	2411.8	2321.6	2223.2	1980.3	1708.7	1458.6	1248.5	1150.1	1102.9	1076.3	1077.3
32.5°	2489.7	2395.4	2294.0	1907.5	1572.4	1280.2	1095.7	1028.1	990.2	963.5	959.4
35°	2594.3	2501.0	2341.1	1797.9	1399.1	1116.2	991.2	935.8	888.7	853.8	846.7
37.5°	2723.4	2659.9	2346.2	1651.3	1213.6	1003.5	916.4	856.9	799.5	753.4	748.3
40°	2944.8	2872.1	2304.2	1467.8	1055.8	930.7	853.8	785.2	718.5	667.3	660.1
42.5°	3260.5	3110.9	2214.0	1260.8	936.9	873.3	794.4	707.3	639.6	603.7	598.6
45°	3662.3	3377.4	2078.7	1066.0	848.7	816.9	731.9	640.6	604.8	579.1	574.0
47.5°	4154.3	3688.0	1922.9	914.3	780.0	765.7	668.3	618.1	586.3	564.8	559.7
50°	4742.7	4083.6	1794.8	795.4	718.5	706.2	647.8	604.8	579.1	561.7	557.6
52.5°	5414.1	4523.3	1732.3	710.3	665.2	652.9	640.6	601.7	580.2	566.8	561.7
55°	6111.1	4986.6	1673.8	644.7	620.1	627.3	641.7	611.9	595.5	578.1	573.0
57.5°	6784.5	5421.2	1530.3	593.5	587.3	615.0	646.8	622.2	602.7	585.3	579.1
60°	7248.8	5659.0	1287.4	552.5	562.7	599.6	633.5	606.8	582.2	575.0	572.0
62.5°	7373.9	5630.3	999.4	510.5	533.0	565.8	598.6	581.2	555.6	566.8	567.9
65°	7081.7	5322.8	750.3	469.5	494.1	521.7	562.7	555.6	546.3	577.1	578.1
67.5°	6254.6	4567.4	572.0	433.6	454.1	487.9	551.5	581.2	583.2	622.2	618.1
70°	4732.4	3412.2	447.9	399.8	423.3	487.9	587.3	600.7	576.1	611.9	603.7
72.5°	3271.8	2251.9	381.3	370.0	385.4	465.4	586.3	586.3	559.7	559.7	544.3
75°	2032.6	1324.3	332.1	332.1	332.1	406.9	569.9	540.2	493.0	471.5	459.2
77.5°	1003.5	643.7	278.8	289.1	277.8	340.3	465.4	441.8	413.1	390.5	382.3
80°	428.5	321.9	225.5	236.8	223.5	256.3	369.0	363.9	336.2	306.5	297.3
82.5°	196.8	166.1	180.4	185.5	163.0	192.7	269.6	269.6	254.2	213.2	197.8
85°	84.1	88.2	125.1	125.1	102.5	108.7	144.5	137.4	123.0	100.5	92.3
87.5°	28.7	43.1	63.6	55.4	21.5	9.2	5.1	2.1	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)