

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: P633887

Luminaire Tested: GWS-SA2F-750-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633887
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-SA2F-750-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16452.2 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

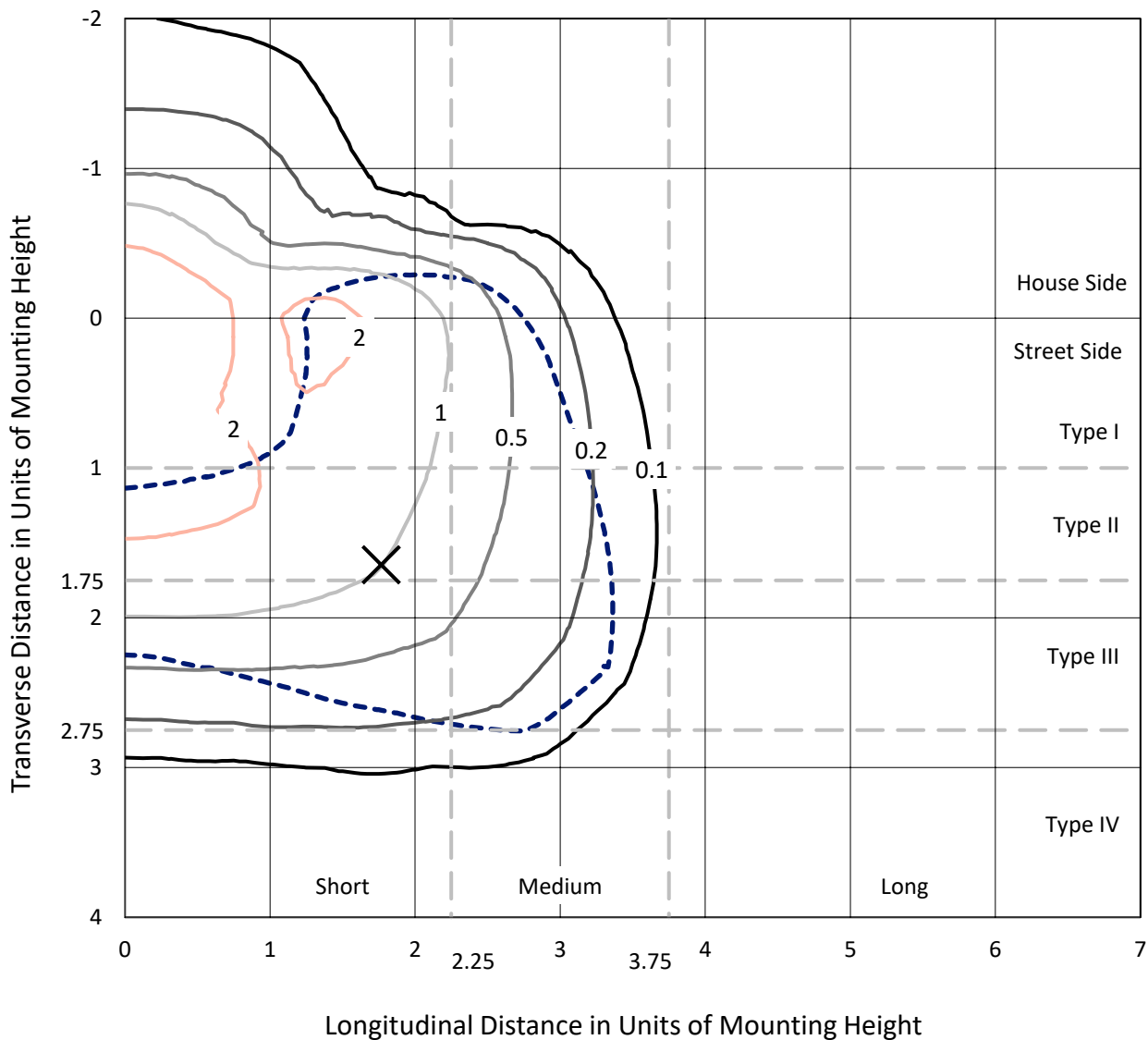
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

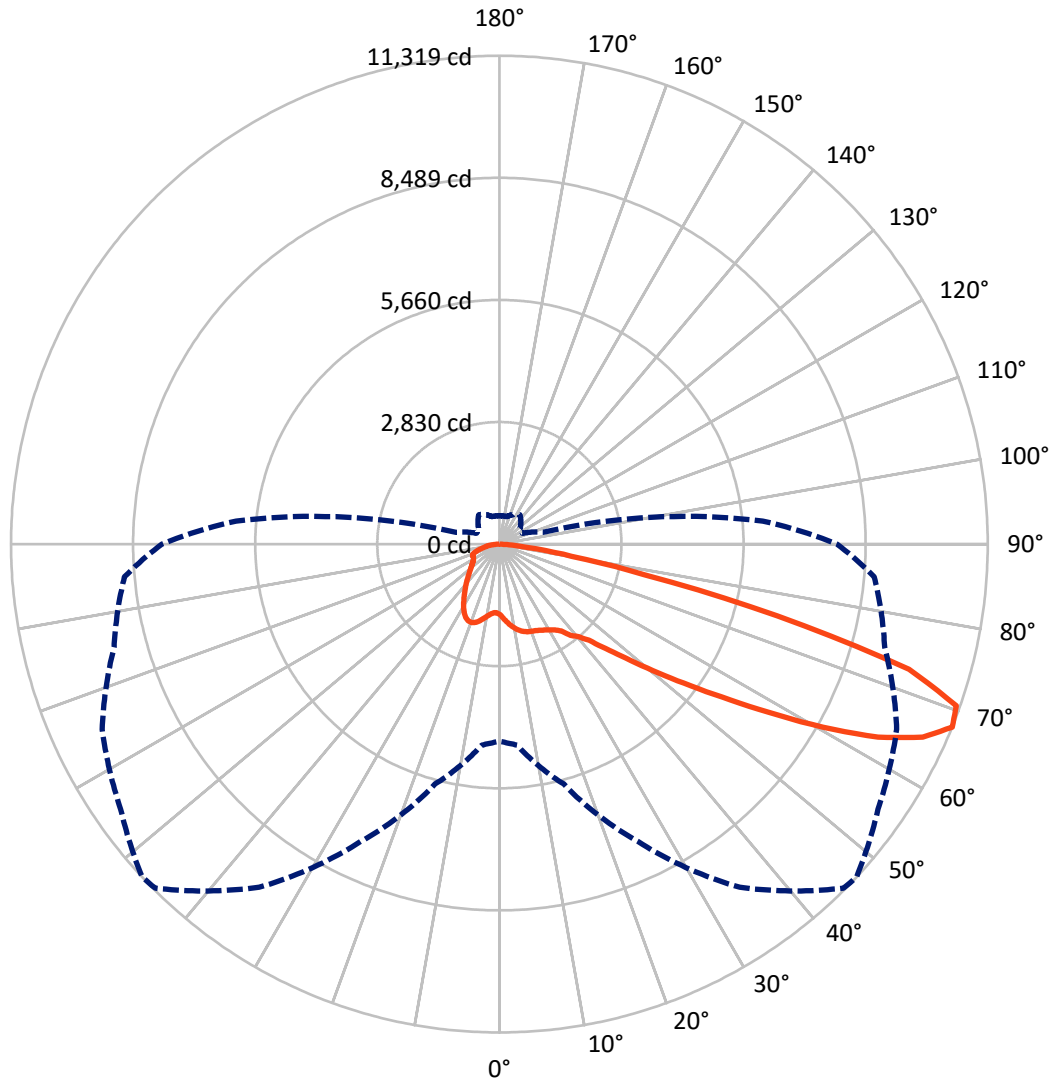
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3749.6	0.0	3749.6
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	12702.6	0.0	12702.6
	% Fixture	77.2	0.0	77.2
Total	Lumens	16452.2	0.0	16452.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.7	1.0
10°-20°	555.3	3.4
20°-30°	943.9	5.7
30°-40°	1382.7	8.4
40°-50°	2106.7	12.8
50°-60°	3769.4	22.9
60°-70°	5029.9	30.6
70°-80°	2274.6	13.8
80°-90°	222.9	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°	16452.2	100.0
0°-180°	16452.2	100.0

Coefficient of Utilization



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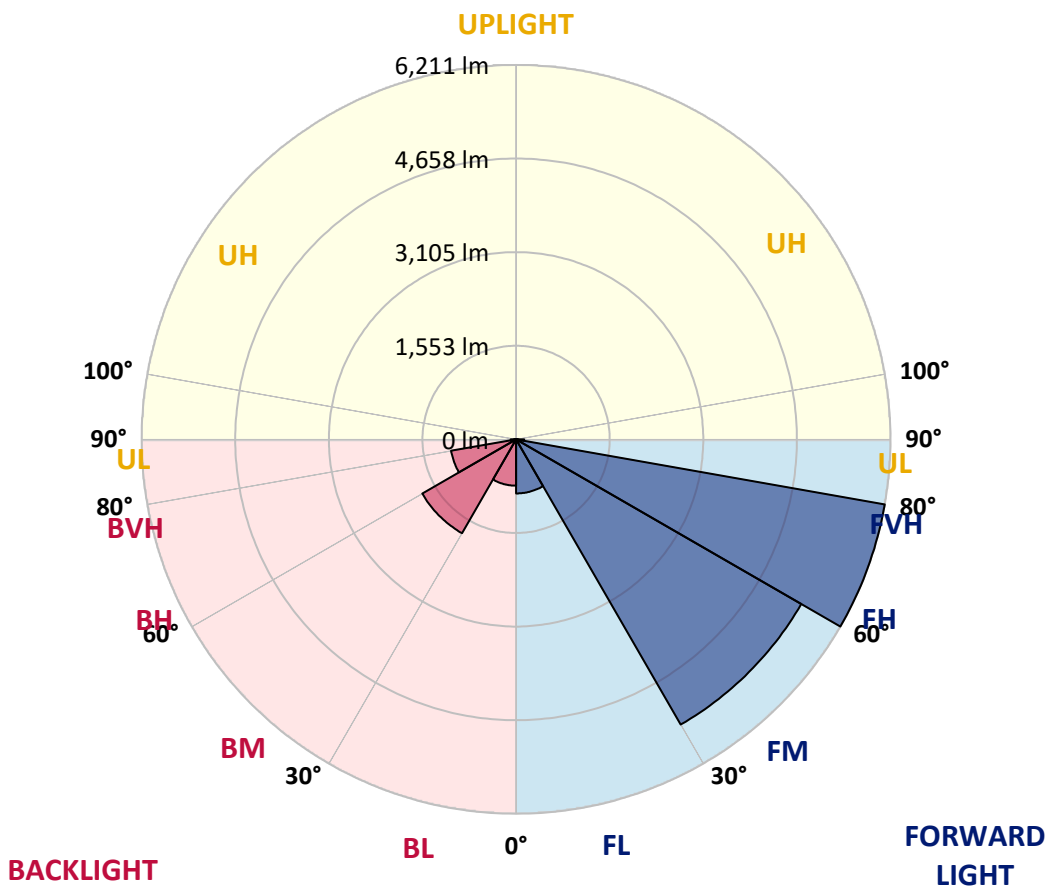
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	897.2	5.5			
FM (30°-60°)	5462.3	33.2			
FH (60°-80°)	6210.5	37.7			G3/7500
FVH (80°-90°)	132.6	0.8			G2/225
BL (0°-30°)	768.7	4.7	B2/1000		
BM (30°-60°)	1796.6	10.9	B2/2500		
BH (60°-80°)	1094.0	6.6	B3/2500		G3/2500
BVH (80°-90°)	90.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9
2.5°	1739.2	1745.1	1743.9	1734.4	1728.5	1717.8	1719.0	1702.3	1677.3	1660.7	1641.6
5°	1892.6	1902.2	1890.3	1874.8	1851.0	1816.5	1812.9	1774.9	1727.3	1694.0	1659.5
7.5°	2025.9	2031.8	2017.6	1991.4	1956.9	1910.5	1902.2	1857.0	1797.5	1745.1	1695.2
10°	2129.4	2136.5	2117.5	2083.0	2037.8	1991.4	1985.4	1939.0	1876.0	1814.1	1751.1
12.5°	2217.4	2219.8	2199.6	2153.2	2104.4	2056.8	2050.9	2008.0	1949.7	1886.7	1817.7
15°	2268.6	2269.7	2244.8	2193.6	2147.2	2105.6	2102.0	2065.1	2011.6	1952.1	1878.4
17.5°	2265.0	2267.4	2249.5	2204.3	2163.9	2138.9	2135.3	2111.5	2069.9	2016.4	1942.6
20°	2221.0	2223.4	2211.5	2181.7	2160.3	2153.2	2154.4	2147.2	2122.2	2078.2	2003.3
22.5°	2186.5	2190.0	2179.3	2157.9	2155.5	2172.2	2175.8	2179.3	2167.4	2128.2	2055.6
25°	2203.1	2209.1	2192.4	2162.7	2167.4	2204.3	2211.5	2223.4	2213.8	2180.5	2117.5
27.5°	2318.5	2322.1	2279.3	2218.6	2204.3	2243.6	2254.3	2273.3	2266.2	2235.2	2186.5
30°	2586.2	2583.8	2492.2	2343.5	2284.0	2299.5	2307.8	2335.2	2337.6	2317.3	2270.9
32.5°	2963.3	2951.4	2809.8	2573.1	2400.6	2362.5	2372.1	2408.9	2436.3	2414.9	2351.8
35°	3361.8	3351.1	3195.3	2918.1	2615.9	2483.9	2473.2	2501.7	2543.4	2483.9	2393.5
37.5°	3741.3	3724.6	3565.2	3222.6	2881.2	2696.8	2681.3	2652.8	2627.8	2513.6	2444.6
40°	4162.4	4143.4	4004.2	3616.4	3173.8	2859.8	2820.5	2707.5	2684.9	2612.3	2577.9
42.5°	4612.1	4612.1	4496.7	4114.8	3527.1	3092.9	3041.8	2871.7	2895.5	2847.9	2807.4
45°	5061.7	5074.8	4983.2	4616.8	3999.4	3533.1	3451.0	3209.5	3266.6	3245.2	3225.0
47.5°	5444.8	5469.8	5451.9	5129.5	4577.6	4068.4	3943.5	3692.5	3815.0	3866.2	3923.3
50°	5857.6	5884.9	5867.1	5739.8	5254.4	4716.7	4604.9	4345.6	4556.1	4709.6	4896.4
52.5°	6470.2	6509.5	6360.8	6312.0	6076.4	5453.1	5353.2	5058.2	5440.0	5694.6	6110.9
55°	6987.7	6986.5	6934.1	7046.0	6959.1	6353.6	6243.0	5975.3	6463.1	6733.1	7342.2
57.5°	7228.0	7256.5	7436.2	7752.6	7926.3	7454.0	7348.1	7074.5	7561.1	7701.4	8359.3
60°	7351.7	7387.4	7734.7	8360.5	8828.0	8655.5	8613.9	8265.3	8538.9	8522.3	9217.0
62.5°	7178.0	7249.4	7807.3	8638.8	9471.5	9862.9	9849.8	9322.8	9370.4	9207.5	9748.7
65°	6381.0	6458.3	7333.8	8499.7	9839.1	10781.3	10784.9	10280.5	10009.2	9540.5	9659.5
67.5°	4563.3	4673.9	5756.4	7605.1	9709.5	11277.4	11319.0	10714.7	10159.1	9245.5	8722.1
70°	2487.4	2568.3	3416.5	5528.0	8541.3	11158.4	11235.7	10505.3	9497.7	7997.6	6714.1
72.5°	1130.1	1156.3	1589.3	3033.5	5835.0	9604.8	9928.4	9375.2	7800.2	5907.5	4269.5
75°	517.5	529.4	692.3	1451.3	3048.9	6427.4	6654.6	6982.9	5428.1	3730.6	2225.7
77.5°	324.8	328.3	393.8	663.8	1520.3	3208.3	3447.4	4157.6	3178.6	1846.3	930.3
80°	191.5	195.1	245.1	359.3	713.8	1468.0	1695.2	1644.0	1494.1	797.0	423.5
82.5°	96.4	99.9	141.6	204.6	389.0	584.1	687.6	691.2	556.7	431.8	239.1
85°	34.5	35.7	46.4	80.9	165.4	192.7	215.3	262.9	272.4	251.0	115.4
87.5°	0.0	0.0	1.2	2.4	4.8	19.0	20.2	38.1	79.7	89.2	46.4
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°	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9
2.5°	1635.7	1617.8	1611.9	1606.0	1596.4	1592.9	1585.7	1578.6	1578.6	1571.5	1567.9
5°	1644.0	1620.2	1604.8	1597.6	1591.7	1595.2	1595.2	1597.6	1606.0	1601.2	1603.6
7.5°	1673.8	1646.4	1625.0	1619.0	1619.0	1633.3	1642.8	1654.7	1670.2	1672.6	1672.6
10°	1726.1	1694.0	1671.4	1667.8	1673.8	1694.0	1708.3	1722.5	1741.6	1742.8	1745.1
12.5°	1783.2	1751.1	1728.5	1733.2	1739.2	1765.4	1780.8	1792.7	1811.8	1811.8	1810.6
15°	1842.7	1807.0	1788.0	1797.5	1815.3	1845.1	1847.4	1848.6	1858.1	1855.8	1854.6
17.5°	1904.5	1866.5	1852.2	1866.5	1885.5	1899.8	1887.9	1871.2	1867.7	1862.9	1860.5
20°	1965.2	1926.0	1920.0	1930.7	1936.7	1924.8	1887.9	1857.0	1842.7	1835.5	1833.2
22.5°	2017.6	1984.2	1980.7	1980.7	1950.9	1909.3	1854.6	1812.9	1793.9	1784.4	1782.0
25°	2079.4	2048.5	2042.5	2010.4	1934.3	1858.1	1784.4	1746.3	1730.9	1726.1	1727.3
27.5°	2152.0	2130.6	2111.5	2019.9	1886.7	1767.7	1684.5	1667.8	1661.9	1667.8	1671.4
30°	2241.2	2219.8	2177.0	2008.0	1810.6	1650.0	1570.3	1569.1	1586.9	1602.4	1604.8
32.5°	2313.8	2304.2	2234.1	1970.0	1703.5	1520.3	1452.5	1457.3	1489.4	1510.8	1514.4
35°	2370.9	2386.3	2281.6	1906.9	1576.2	1397.8	1344.2	1346.6	1364.5	1394.2	1395.4
37.5°	2451.8	2504.1	2324.5	1810.6	1429.9	1291.9	1243.1	1225.3	1222.9	1231.2	1233.6
40°	2614.7	2693.2	2355.4	1670.2	1288.3	1196.7	1142.0	1107.5	1077.8	1055.2	1048.0
42.5°	2861.0	2951.4	2373.2	1500.1	1162.2	1102.8	1040.9	996.9	944.5	897.0	880.3
45°	3313.0	3342.8	2373.2	1319.3	1050.4	1014.7	952.9	900.5	833.9	778.0	766.1
47.5°	4036.3	3941.1	2375.6	1144.4	951.7	937.4	883.9	824.4	750.6	704.2	697.1
50°	5126.0	4791.7	2424.4	999.3	869.6	872.0	832.7	767.3	700.7	666.2	660.2
52.5°	6360.8	5839.7	2555.2	892.2	800.6	818.4	797.0	734.0	674.5	644.8	638.8
55°	7521.8	6803.3	2667.1	816.1	742.3	773.2	772.0	713.8	660.2	630.5	626.9
57.5°	8509.2	7463.5	2650.4	754.2	692.3	731.6	749.4	700.7	650.7	625.7	622.2
60°	9123.0	7813.3	2413.7	697.1	654.3	701.9	736.4	697.1	655.5	649.5	650.7
62.5°	9389.5	7749.0	1959.3	654.3	629.3	687.6	750.6	722.1	699.5	713.8	722.1
65°	8975.5	7197.0	1441.8	622.2	605.5	691.2	783.9	761.3	699.5	709.0	712.6
67.5°	7826.3	6126.4	1042.1	590.0	575.8	701.9	831.5	755.4	659.0	659.0	651.9
70°	5639.9	4406.3	756.6	557.9	546.0	686.4	833.9	714.9	612.6	609.1	591.2
72.5°	3393.9	2599.3	590.0	522.2	500.8	609.1	781.6	667.4	567.4	537.7	516.3
75°	1763.0	1302.6	494.9	483.0	429.4	516.3	714.9	593.6	485.4	459.2	447.3
77.5°	755.4	609.1	424.7	430.6	356.9	434.2	577.0	513.9	430.6	397.3	386.6
80°	372.3	346.2	335.5	345.0	285.5	335.5	497.3	449.7	365.2	327.1	311.7
82.5°	212.9	202.2	241.5	245.1	203.4	280.7	419.9	380.7	302.2	260.5	235.5
85°	98.7	105.9	146.3	147.5	126.1	192.7	274.8	214.1	160.6	133.2	127.3
87.5°	39.3	46.4	64.2	63.0	36.9	35.7	23.8	13.1	10.7	9.5	8.3
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)