

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: P633832

Luminaire Tested: GWS-SA2F-740-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633832  
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-740-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

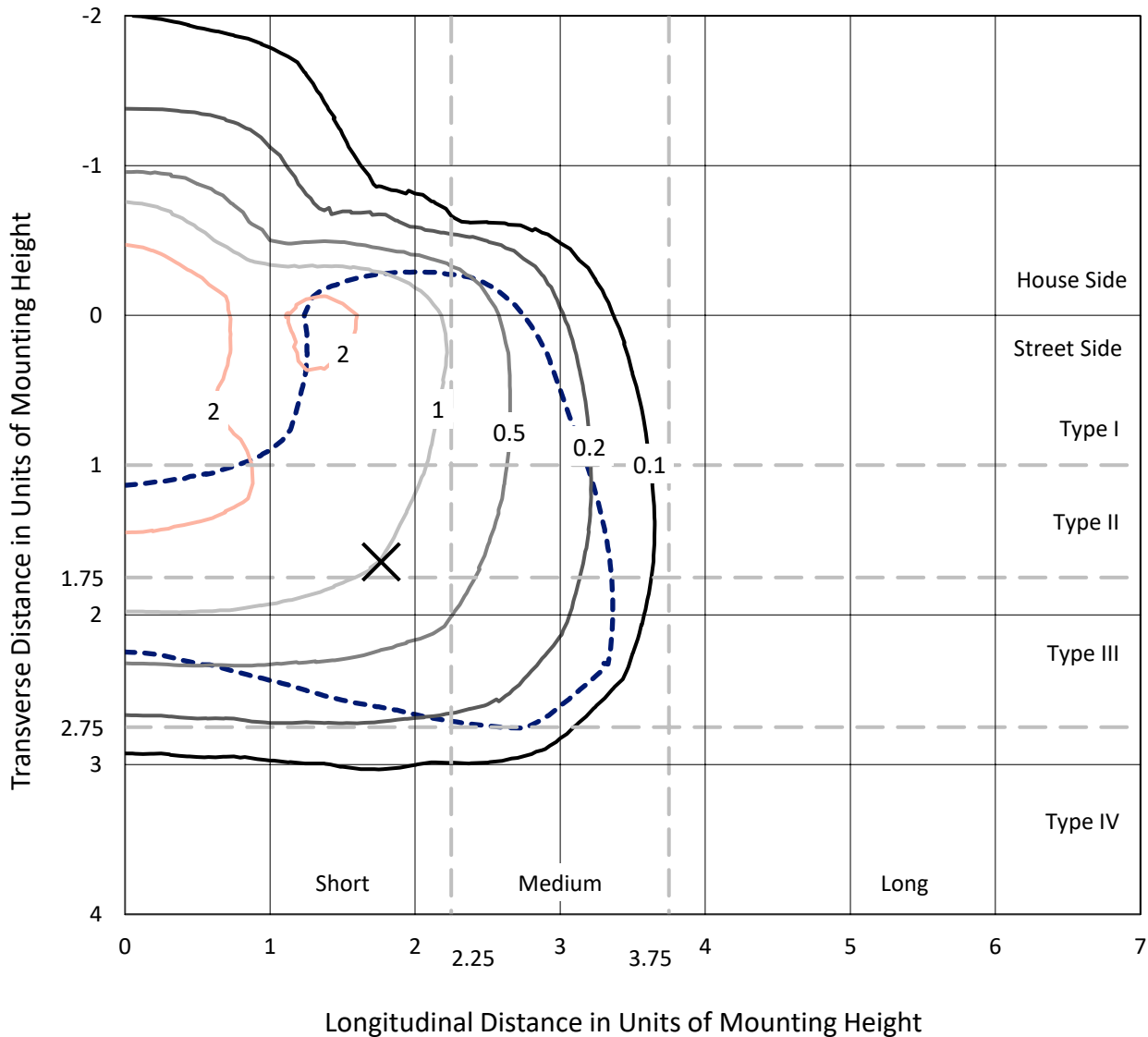
Lumens per Lamp: N/A  
Luminaire Lumens: 16083.6 lumens  
Efficiency: N/A  
Efficacy: 129.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

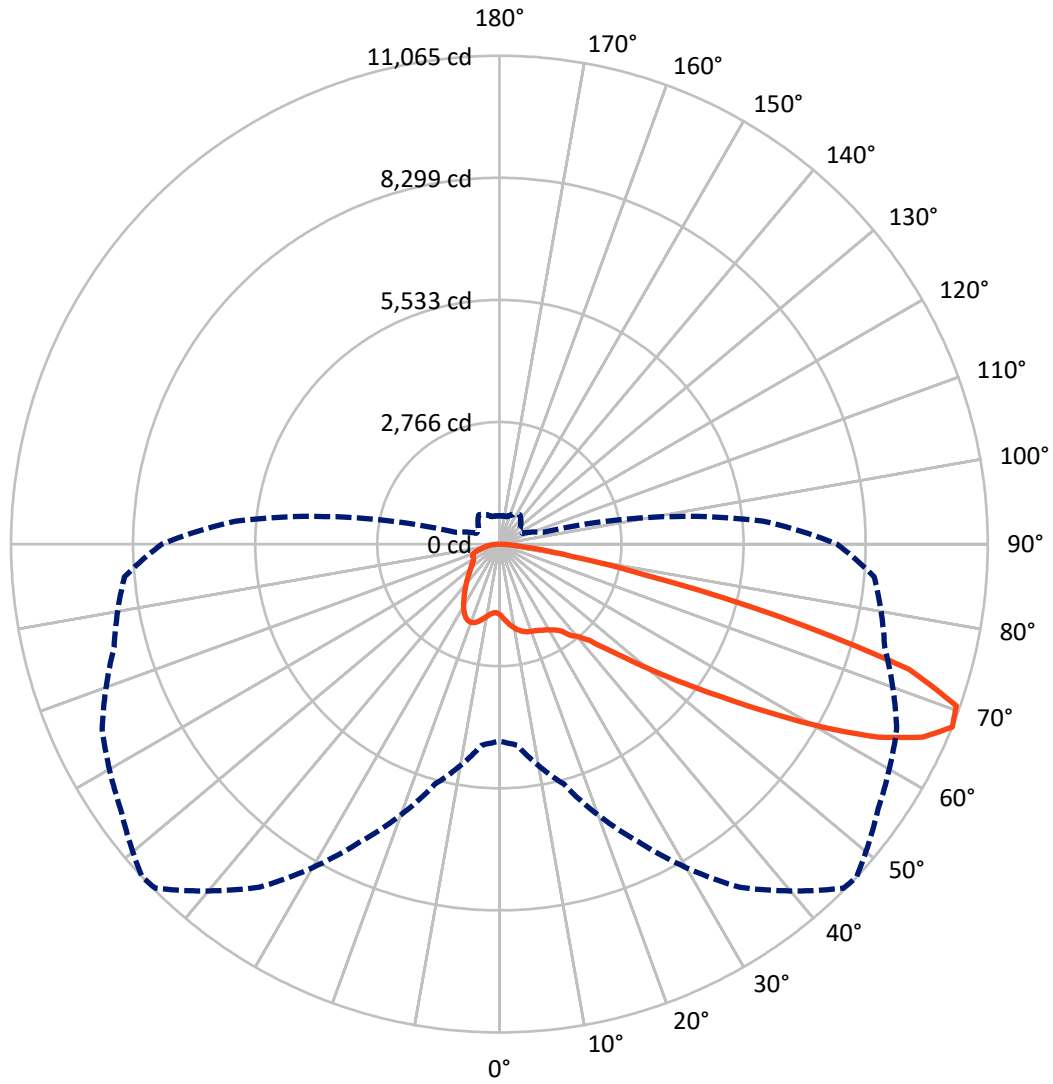
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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
<b>House Side</b>	Lumens	3665.6	0.0	3665.6
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	12418.0	0.0	12418.0
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	16083.6	0.0	16083.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.0	1.0
10°-20°	542.9	3.4
20°-30°	922.8	5.7
30°-40°	1351.7	8.4
40°-50°	2059.5	12.8
50°-60°	3685.0	22.9
60°-70°	4917.2	30.6
70°-80°	2223.7	13.8
80°-90°	217.9	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°	16083.6	100.0
0°-180°	16083.6	100.0

**Coefficient of Utilization**



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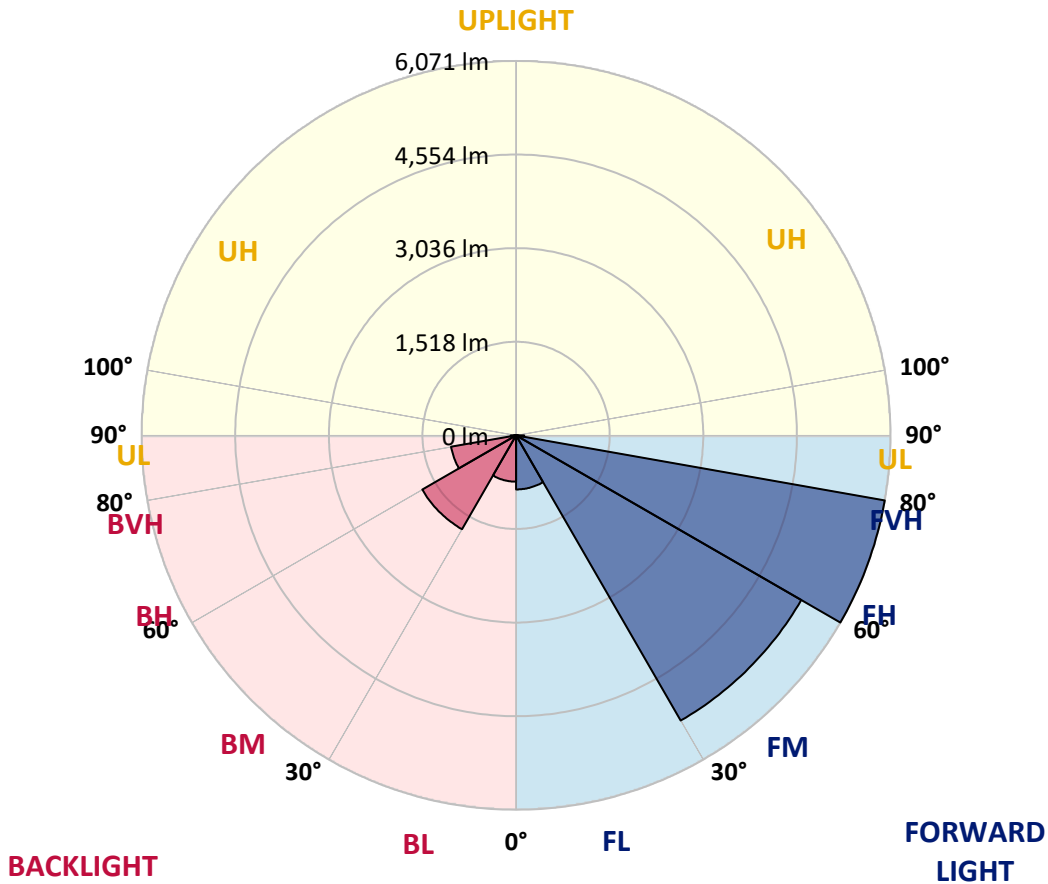
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	877.1	5.5			
FM (30°-60°)	5339.9	33.2			
FH (60°-80°)	6071.4	37.7			G3/7500
FVH (80°-90°)	129.6	0.8			G2/225
BL (0°-30°)	751.5	4.7	B2/1000		
BM (30°-60°)	1756.4	10.9	B2/2500		
BH (60°-80°)	1069.5	6.6	B3/2500		G3/2500
BVH (80°-90°)	88.3	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°	1594.4	1594.4	1594.4	1594.4	1594.4	1594.4	1594.4	1594.4	1594.4	1594.4	1594.4
2.5°	1700.2	1706.0	1704.9	1695.6	1689.8	1679.3	1680.5	1664.2	1639.7	1623.5	1604.9
5°	1850.2	1859.5	1847.9	1832.8	1809.5	1775.8	1772.3	1735.1	1688.6	1656.0	1622.3
7.5°	1980.5	1986.3	1972.3	1946.8	1913.0	1867.7	1859.5	1815.4	1757.2	1706.0	1657.2
10°	2081.7	2088.6	2070.0	2036.3	1992.1	1946.8	1941.0	1895.6	1834.0	1773.5	1711.9
12.5°	2167.7	2170.1	2150.3	2104.9	2057.2	2010.7	2004.9	1963.0	1906.1	1844.4	1777.0
15°	2217.7	2218.9	2194.5	2144.5	2099.1	2058.4	2054.9	2018.9	1966.5	1908.4	1836.3
17.5°	2214.2	2216.6	2199.1	2154.9	2115.4	2091.0	2087.5	2064.2	2023.5	1971.2	1899.1
20°	2171.2	2173.5	2161.9	2132.8	2111.9	2104.9	2106.1	2099.1	2074.7	2031.7	1958.4
22.5°	2137.5	2141.0	2130.5	2109.6	2107.3	2123.5	2127.0	2130.5	2118.9	2080.5	2009.6
25°	2153.8	2159.6	2143.3	2114.2	2118.9	2154.9	2161.9	2173.5	2164.2	2131.7	2070.0
27.5°	2266.6	2270.1	2228.2	2168.9	2154.9	2193.3	2203.8	2222.4	2215.4	2185.2	2137.5
30°	2528.2	2525.9	2436.4	2291.0	2232.8	2248.0	2256.1	2282.9	2285.2	2265.4	2220.1
32.5°	2896.9	2885.3	2746.9	2515.4	2346.8	2309.6	2318.9	2355.0	2381.7	2360.8	2299.1
35°	3286.5	3276.0	3123.7	2852.7	2557.3	2428.2	2417.8	2445.7	2486.4	2428.2	2339.8
37.5°	3657.5	3641.2	3485.3	3150.4	2816.6	2636.4	2621.3	2593.4	2568.9	2457.3	2389.8
40°	4069.1	4050.5	3914.5	3535.3	3102.7	2795.7	2757.3	2646.9	2624.8	2553.8	2520.1
42.5°	4508.7	4508.7	4395.9	4022.6	3448.1	3023.6	2973.6	2807.3	2830.6	2784.1	2744.5
45°	4948.3	4961.1	4871.6	4513.4	3909.8	3453.9	3373.7	3137.6	3193.4	3172.5	3152.7
47.5°	5322.8	5347.2	5329.8	5014.6	4475.0	3977.3	3855.2	3609.8	3729.6	3779.6	3835.4
50°	5726.3	5753.1	5735.6	5611.2	5136.7	4611.1	4501.7	4248.2	4454.1	4604.1	4786.7
52.5°	6325.2	6363.6	6218.3	6170.6	5940.3	5330.9	5233.2	4944.8	5318.1	5567.0	5974.0
55°	6831.1	6830.0	6778.8	6888.1	6803.2	6211.3	6103.1	5841.5	6318.3	6582.3	7177.7
57.5°	7066.0	7093.9	7269.6	7578.9	7748.7	7287.0	7183.5	6916.0	7391.7	7528.9	8172.0
60°	7187.0	7221.9	7561.5	8173.2	8630.2	8461.6	8420.9	8080.1	8347.6	8331.3	9010.5
62.5°	7017.2	7087.0	7632.4	8445.3	9259.3	9642.0	9629.2	9114.0	9160.5	9001.2	9530.3
65°	6238.0	6313.6	7169.5	8309.2	9618.7	10539.7	10543.2	10050.1	9785.0	9326.8	9443.1
67.5°	4461.0	4569.2	5627.5	7434.7	9491.9	11024.7	11065.4	10474.6	9931.5	9038.4	8526.7
70°	2431.7	2510.8	3340.0	5404.2	8349.9	10908.4	10984.0	10269.9	9284.9	7818.5	6563.6
72.5°	1104.8	1130.4	1553.7	2965.5	5704.2	9389.6	9705.9	9165.1	7625.4	5775.2	4173.8
75°	505.9	517.5	676.8	1418.8	2980.6	6283.4	6505.5	6826.5	5306.5	3647.0	2175.9
77.5°	317.5	321.0	384.9	648.9	1486.2	3136.5	3370.2	4064.5	3107.4	1804.9	909.4
80°	187.2	190.7	239.6	351.2	697.8	1435.1	1657.2	1607.2	1460.7	779.2	414.0
82.5°	94.2	97.7	138.4	200.0	380.3	571.0	672.2	675.7	544.3	422.1	233.8
85°	33.7	34.9	45.4	79.1	161.6	188.4	210.5	257.0	266.3	245.4	112.8
87.5°	0.0	0.0	1.2	2.3	4.7	18.6	19.8	37.2	77.9	87.2	45.4
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°	1594.4	1594.4	1594.4	1594.4	1594.4	1594.4	1594.4	1594.4	1594.4	1594.4	1594.4
2.5°	1599.0	1581.6	1575.8	1570.0	1560.7	1557.2	1550.2	1543.2	1543.2	1536.2	1532.8
5°	1607.2	1583.9	1568.8	1561.8	1556.0	1559.5	1559.5	1561.8	1570.0	1565.3	1567.6
7.5°	1636.3	1609.5	1588.6	1582.8	1582.8	1596.7	1606.0	1617.7	1632.8	1635.1	1635.1
10°	1687.4	1656.0	1633.9	1630.4	1636.3	1656.0	1670.0	1683.9	1702.5	1703.7	1706.0
12.5°	1743.3	1711.9	1689.8	1694.4	1700.2	1725.8	1740.9	1752.6	1771.2	1771.2	1770.0
15°	1801.4	1766.5	1747.9	1757.2	1774.6	1803.7	1806.0	1807.2	1816.5	1814.2	1813.0
17.5°	1861.9	1824.7	1810.7	1824.7	1843.3	1857.2	1845.6	1829.3	1825.8	1821.2	1818.8
20°	1921.2	1882.8	1877.0	1887.5	1893.3	1881.6	1845.6	1815.4	1801.4	1794.4	1792.1
22.5°	1972.3	1939.8	1936.3	1936.3	1907.2	1866.5	1813.0	1772.3	1753.7	1744.4	1742.1
25°	2032.8	2002.6	1996.8	1965.4	1890.9	1816.5	1744.4	1707.2	1692.1	1687.4	1688.6
27.5°	2103.8	2082.8	2064.2	1974.7	1844.4	1728.1	1646.7	1630.4	1624.6	1630.4	1633.9
30°	2191.0	2170.1	2128.2	1963.0	1770.0	1613.0	1535.1	1533.9	1551.4	1566.5	1568.8
32.5°	2261.9	2252.6	2184.0	1925.8	1665.3	1486.2	1420.0	1424.6	1456.0	1476.9	1480.4
35°	2317.7	2332.9	2230.5	1864.2	1540.9	1366.5	1314.1	1316.5	1333.9	1363.0	1364.1
37.5°	2396.8	2448.0	2272.4	1770.0	1397.9	1263.0	1215.3	1197.8	1195.5	1203.6	1206.0
40°	2556.1	2632.9	2302.6	1632.8	1259.5	1169.9	1116.4	1082.7	1053.6	1031.5	1024.6
42.5°	2796.9	2885.3	2320.1	1466.5	1136.2	1078.0	1017.6	974.5	923.4	876.9	860.6
45°	3238.8	3267.9	2320.1	1289.7	1026.9	992.0	931.5	880.3	815.2	760.6	748.9
47.5°	3945.9	3852.8	2322.4	1118.8	930.4	916.4	864.1	805.9	733.8	688.5	681.5
50°	5011.1	4684.3	2370.1	976.9	850.1	852.4	814.1	750.1	685.0	651.2	645.4
52.5°	6218.3	5708.9	2498.0	872.2	782.7	800.1	779.2	717.5	659.4	630.3	624.5
55°	7353.3	6650.9	2607.3	797.8	725.7	755.9	754.7	697.8	645.4	616.4	612.9
57.5°	8318.5	7296.3	2591.0	737.3	676.8	715.2	732.7	685.0	636.1	611.7	608.2
60°	8918.6	7638.2	2359.6	681.5	639.6	686.1	719.9	681.5	640.8	635.0	636.1
62.5°	9179.1	7575.4	1915.4	639.6	615.2	672.2	733.8	705.9	683.8	697.8	705.9
65°	8774.4	7035.8	1409.5	608.2	591.9	675.7	766.4	744.3	683.8	693.1	696.6
67.5°	7651.0	5989.2	1018.7	576.8	562.9	686.1	812.9	738.5	644.3	644.3	637.3
70°	5513.5	4307.5	739.6	545.4	533.8	671.0	815.2	698.9	598.9	595.4	578.0
72.5°	3317.9	2541.0	576.8	510.5	489.6	595.4	764.1	652.4	554.7	525.6	504.7
75°	1723.5	1273.4	483.8	472.2	419.8	504.7	698.9	580.3	474.5	448.9	437.3
77.5°	738.5	595.4	415.2	421.0	348.9	424.5	564.0	502.4	421.0	388.4	378.0
80°	364.0	338.4	327.9	337.3	279.1	327.9	486.1	439.6	357.0	319.8	304.7
82.5°	208.2	197.7	236.1	239.6	198.9	274.5	410.5	372.1	295.4	254.7	230.3
85°	96.5	103.5	143.0	144.2	123.3	188.4	268.6	209.3	157.0	130.2	124.4
87.5°	38.4	45.4	62.8	61.6	36.1	34.9	23.3	12.8	10.5	9.3	8.1
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)