

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: P637075

Luminaire Tested: GWS-SA4C-722-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637075  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-722-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

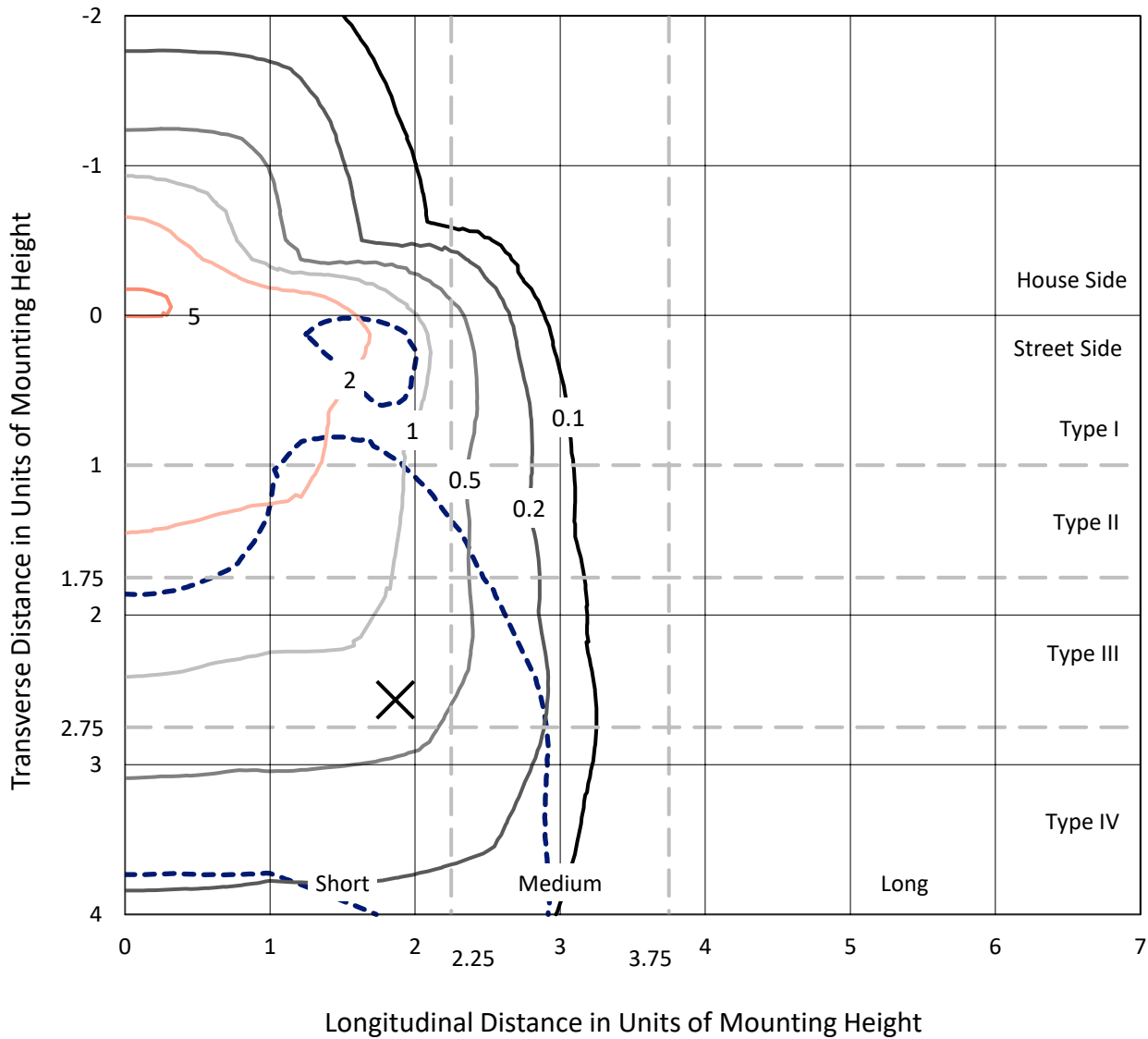
Lumens per Lamp: N/A  
Luminaire Lumens: 13811.1 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

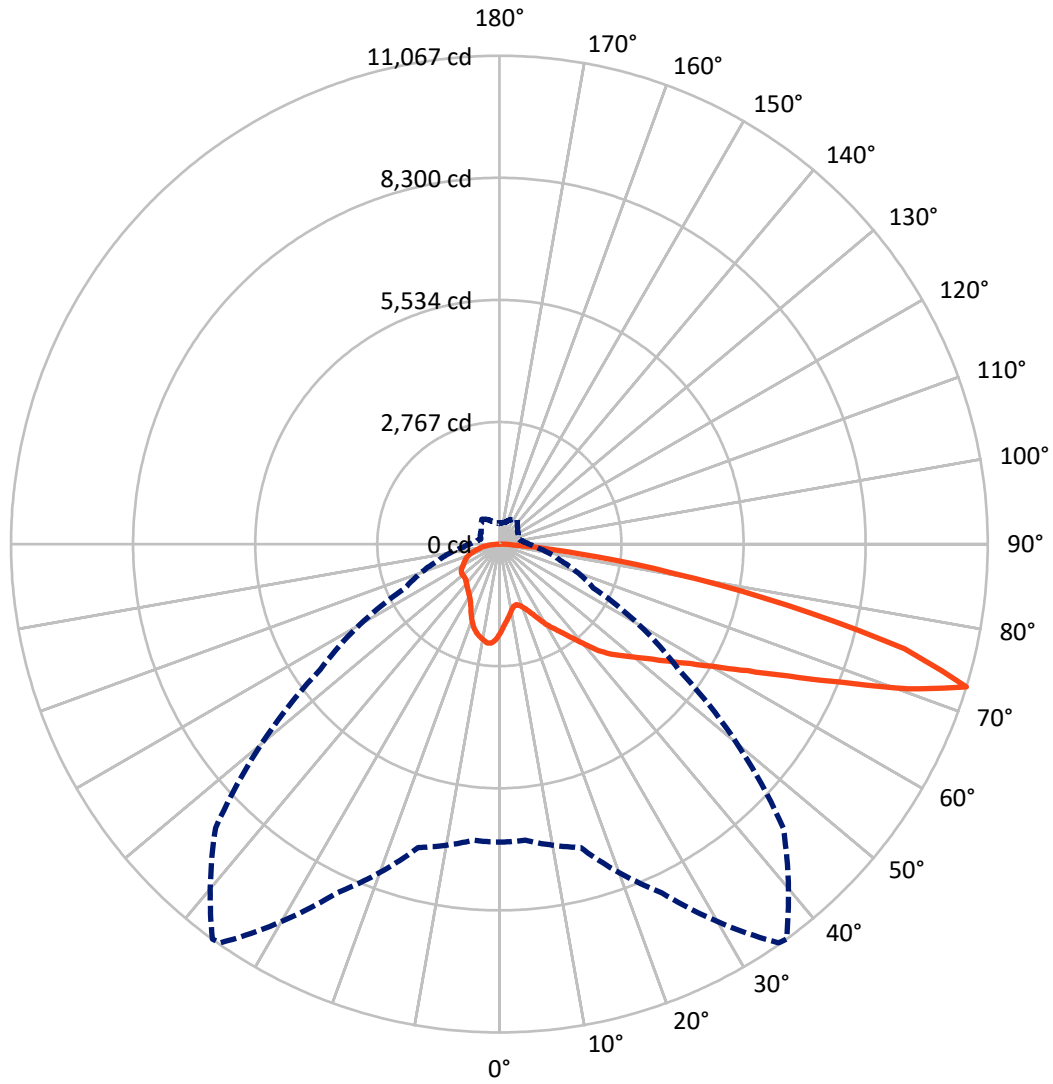
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3184.1	0.0	3184.1
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	10627.0	0.0	10627.0
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	13811.1	0.0	13811.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.9	1.4
10°-20°	533.1	3.9
20°-30°	882.8	6.4
30°-40°	1322.1	9.6
40°-50°	1928.9	14.0
50°-60°	2745.3	19.9
60°-70°	3468.5	25.1
70°-80°	2471.6	17.9
80°-90°	269.8	2.0
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°	13811.1	100.0
0°-180°	13811.1	100.0

**Coefficient of Utilization**



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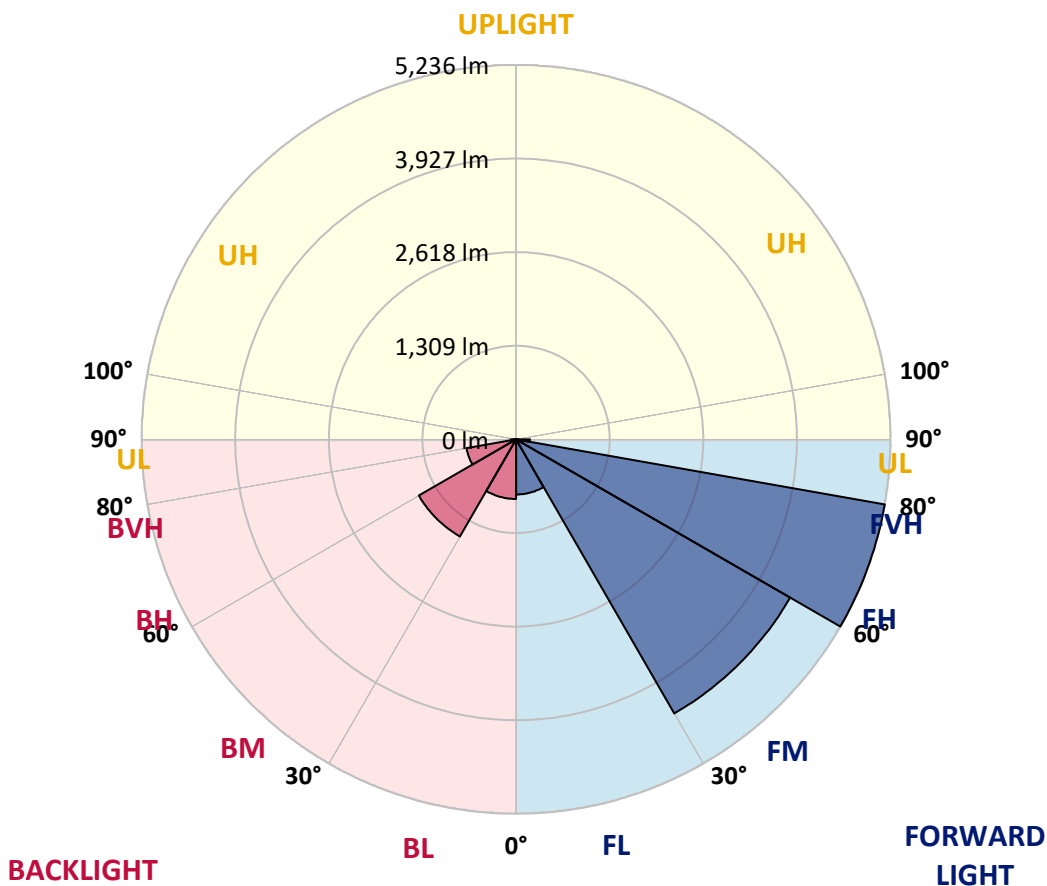
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	771.0	5.6			
FM (30°-60°)	4426.1	32.0			
FH (60°-80°)	5236.2	37.9			G3/7500
FVH (80°-90°)	193.7	1.4			G2/225
BL (0°-30°)	833.8	6.0	B2/1000		
BM (30°-60°)	1570.2	11.4	B2/2500		
BH (60°-80°)	703.9	5.1	B2/1000		G2/1000
BVH (80°-90°)	76.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3
2.5°	1844.0	1840.9	1834.8	1853.2	1871.7	1869.6	1895.2	1919.8	1946.5	1974.2	2011.1
5°	1696.4	1694.3	1689.2	1716.9	1744.6	1743.5	1785.6	1825.5	1879.9	1939.3	2013.1
7.5°	1548.8	1543.7	1550.8	1585.7	1624.6	1628.7	1686.1	1751.7	1830.7	1919.8	2024.4
10°	1418.6	1417.6	1420.7	1459.6	1518.0	1522.1	1595.9	1687.2	1791.7	1910.6	2050.0
12.5°	1384.8	1382.7	1374.5	1394.0	1438.1	1444.2	1525.2	1636.9	1765.1	1915.7	2084.9
15°	1440.1	1435.0	1406.3	1397.1	1418.6	1423.7	1492.4	1607.2	1749.7	1925.0	2128.9
17.5°	1535.5	1532.4	1478.1	1440.1	1454.5	1458.6	1509.8	1602.1	1745.6	1943.4	2183.3
20°	1674.9	1661.5	1576.5	1519.1	1519.1	1525.2	1556.0	1624.6	1750.7	1966.0	2244.8
22.5°	1859.4	1832.7	1712.8	1634.9	1614.4	1622.6	1635.9	1681.0	1772.2	2003.9	2321.6
25°	2066.4	2041.8	1899.3	1789.7	1761.0	1764.0	1752.8	1761.0	1819.4	2056.2	2417.0
27.5°	2286.8	2270.4	2118.7	1979.3	1934.2	1934.2	1894.2	1874.7	1885.0	2115.6	2523.6
30°	2483.6	2461.0	2332.9	2180.2	2120.7	2120.7	2044.9	2002.9	1978.3	2188.4	2666.0
32.5°	2587.1	2573.8	2488.7	2371.9	2299.1	2287.8	2222.2	2173.0	2115.6	2296.0	2858.7
35°	2722.4	2719.3	2668.1	2576.9	2484.6	2468.2	2423.1	2384.2	2284.7	2430.3	3115.0
37.5°	2892.6	2887.4	2879.2	2824.9	2714.2	2711.1	2671.2	2624.0	2494.9	2624.0	3425.6
40°	3083.2	3074.0	3063.7	3062.7	2996.1	2984.8	2981.7	2928.4	2748.0	2857.7	3749.5
42.5°	3345.6	3313.9	3217.5	3260.6	3309.8	3299.5	3338.5	3258.5	3063.7	3135.5	4056.0
45°	3668.5	3590.6	3400.0	3412.3	3536.3	3556.8	3692.1	3672.6	3411.2	3456.3	4378.8
47.5°	3862.2	3794.6	3617.3	3607.0	3761.8	3787.4	4081.6	4118.5	3785.4	3842.8	4777.6
50°	4021.1	3974.0	3828.4	3842.8	4006.8	4032.4	4468.0	4546.9	4138.0	4238.4	5240.9
52.5°	4212.8	4145.1	4032.4	4100.0	4300.9	4331.7	4897.5	4982.6	4455.7	4673.0	5720.6
55°	4320.4	4292.7	4294.8	4398.3	4650.5	4692.5	5347.5	5333.1	4746.8	5045.1	6081.4
57.5°	4568.5	4558.2	4652.5	4691.5	5058.4	5112.7	5797.4	5674.4	5011.3	5333.1	6254.6
60°	5006.1	4980.5	5062.5	5122.0	5562.7	5639.6	6299.7	6008.6	5190.6	5547.3	6196.2
62.5°	5621.1	5589.4	5592.4	5686.7	6238.2	6319.2	6858.3	6287.4	5246.0	5580.1	5826.1
65°	6385.8	6339.7	6287.4	6415.5	7135.1	7202.7	7466.2	6490.4	5113.8	5264.4	5053.3
67.5°	7192.5	7154.6	7093.1	7361.6	8296.4	8337.4	8147.8	6472.9	4694.5	4419.8	3544.5
70°	7239.6	7248.9	7540.0	8511.7	9812.4	9822.7	8792.5	6122.4	3801.8	2864.9	1766.1
72.5°	6753.8	6738.4	7117.7	8721.8	11032.2	11067.0	9096.9	4960.0	2349.3	1428.9	828.2
75°	5485.8	5512.5	5911.2	7631.2	9455.7	9486.5	7415.9	2924.3	1116.2	699.1	529.9
77.5°	2361.6	2510.2	3296.4	5376.2	6772.2	6676.9	3822.3	1184.9	595.5	498.2	405.9
80°	681.6	740.1	1174.7	2556.4	4058.0	3986.3	1512.9	443.8	415.1	374.1	291.1
82.5°	220.4	244.0	430.5	1017.8	1818.4	1816.3	574.0	262.4	271.6	254.2	187.6
85°	61.5	70.7	132.2	308.5	562.7	551.5	166.1	124.0	144.5	146.6	93.3
87.5°	0.0	0.0	1.0	2.1	2.1	2.1	4.1	18.5	42.0	53.3	37.9
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°	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3
2.5°	2033.6	2030.5	2072.6	2105.4	2136.1	2156.6	2162.8	2166.9	2175.1	2179.2	2175.1
5°	2048.0	2063.3	2133.0	2184.3	2225.3	2249.9	2250.9	2248.9	2255.0	2249.9	2246.8
7.5°	2078.7	2108.4	2196.6	2250.9	2277.6	2278.6	2254.0	2225.3	2210.9	2198.6	2194.5
10°	2119.7	2163.8	2260.1	2296.0	2287.8	2249.9	2195.6	2150.5	2124.8	2106.4	2102.3
12.5°	2176.1	2225.3	2316.5	2315.5	2264.2	2196.6	2133.0	2078.7	2041.8	2020.3	2013.1
15°	2229.4	2291.9	2357.5	2309.3	2228.4	2146.4	2064.4	1991.6	1942.4	1908.6	1902.4
17.5°	2295.0	2361.6	2387.2	2289.9	2183.3	2077.7	1968.0	1872.7	1806.1	1766.1	1763.0
20°	2370.8	2430.3	2401.6	2256.0	2124.8	1986.5	1837.8	1731.2	1659.5	1620.5	1623.6
22.5°	2459.0	2502.0	2405.7	2209.9	2043.9	1857.3	1691.3	1588.8	1540.6	1520.1	1521.1
25°	2553.3	2581.0	2398.5	2147.4	1919.8	1699.5	1540.6	1493.4	1489.3	1484.2	1486.3
27.5°	2665.0	2658.9	2377.0	2059.2	1752.8	1516.0	1435.0	1447.3	1463.7	1461.7	1463.7
30°	2814.7	2756.2	2349.3	1937.3	1553.9	1362.2	1372.5	1407.3	1428.9	1430.9	1437.1
32.5°	2985.8	2863.9	2305.2	1771.2	1364.3	1276.1	1314.1	1356.1	1381.7	1386.8	1395.0
35°	3189.8	2986.9	2227.3	1564.2	1228.0	1224.9	1259.7	1288.4	1316.1	1318.2	1318.2
37.5°	3424.6	3109.9	2103.3	1335.6	1143.9	1180.8	1213.6	1219.8	1226.9	1220.8	1223.9
40°	3639.8	3228.8	1927.0	1127.5	1075.2	1141.9	1169.5	1149.0	1126.5	1111.1	1114.2
42.5°	3820.2	3309.8	1693.3	982.0	1005.5	1107.0	1128.5	1086.5	1042.4	1013.7	1017.8
45°	4023.2	3384.6	1418.6	883.6	946.1	1082.4	1096.8	1042.4	986.1	943.0	936.9
47.5°	4303.0	3537.3	1174.7	814.9	904.1	1069.1	1092.7	1018.9	945.1	880.5	873.3
50°	4648.4	3753.6	970.7	769.8	884.6	1061.9	1091.6	993.2	905.1	829.2	824.1
52.5°	5025.6	3964.7	820.0	734.9	865.1	1040.4	1086.5	964.5	863.1	781.1	774.9
55°	5276.7	4047.8	718.5	702.1	833.3	1006.6	1066.0	936.9	799.5	724.7	715.5
57.5°	5350.5	3941.2	647.8	672.4	792.3	959.4	1027.1	878.4	760.6	701.1	693.9
60°	5223.4	3672.6	603.7	647.8	747.2	898.9	959.4	844.6	729.8	676.5	671.4
62.5°	4864.7	3258.5	569.9	622.2	701.1	835.4	916.4	803.6	696.0	654.0	646.8
65°	4143.1	2672.2	542.2	595.5	657.0	774.9	869.2	762.6	659.1	627.3	619.1
67.5°	2897.7	1876.8	512.5	563.8	613.0	716.5	820.0	724.7	621.2	597.6	589.4
70°	1416.6	995.3	476.6	526.9	565.8	657.0	770.8	678.6	570.9	557.6	546.3
72.5°	674.5	556.6	434.6	476.6	501.2	578.1	688.8	611.9	511.5	482.8	463.3
75°	452.0	395.7	379.3	417.2	423.3	484.8	590.4	527.9	451.0	418.2	401.8
77.5°	342.4	302.4	318.8	352.6	340.3	398.7	485.9	470.5	406.9	377.2	369.0
80°	240.9	220.4	253.2	273.7	264.5	339.3	437.7	402.8	335.2	302.4	296.2
82.5°	151.7	147.6	186.6	189.6	192.7	268.6	359.8	316.7	260.4	214.2	198.9
85°	75.9	84.1	111.7	111.7	110.7	138.4	205.0	178.4	140.4	111.7	108.7
87.5°	25.6	35.9	48.2	39.0	29.7	23.6	26.7	32.8	34.9	33.8	33.8
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)