

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: P639261

Luminaire Tested: GWS-SA5B-740-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639261  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-740-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

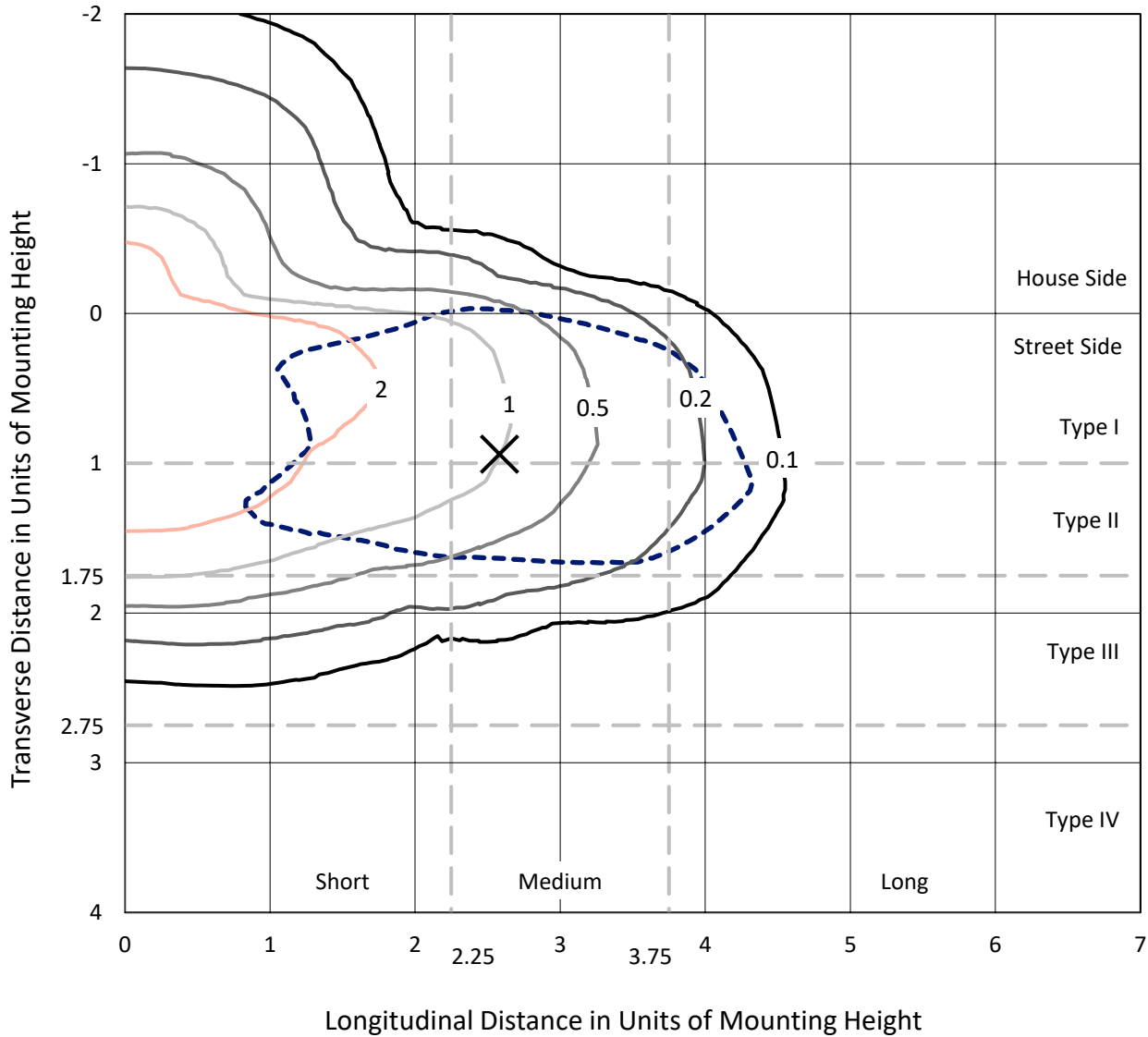
Lumens per Lamp: N/A  
Luminaire Lumens: 17616.4 lumens  
Efficiency: N/A  
Efficacy: 152.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

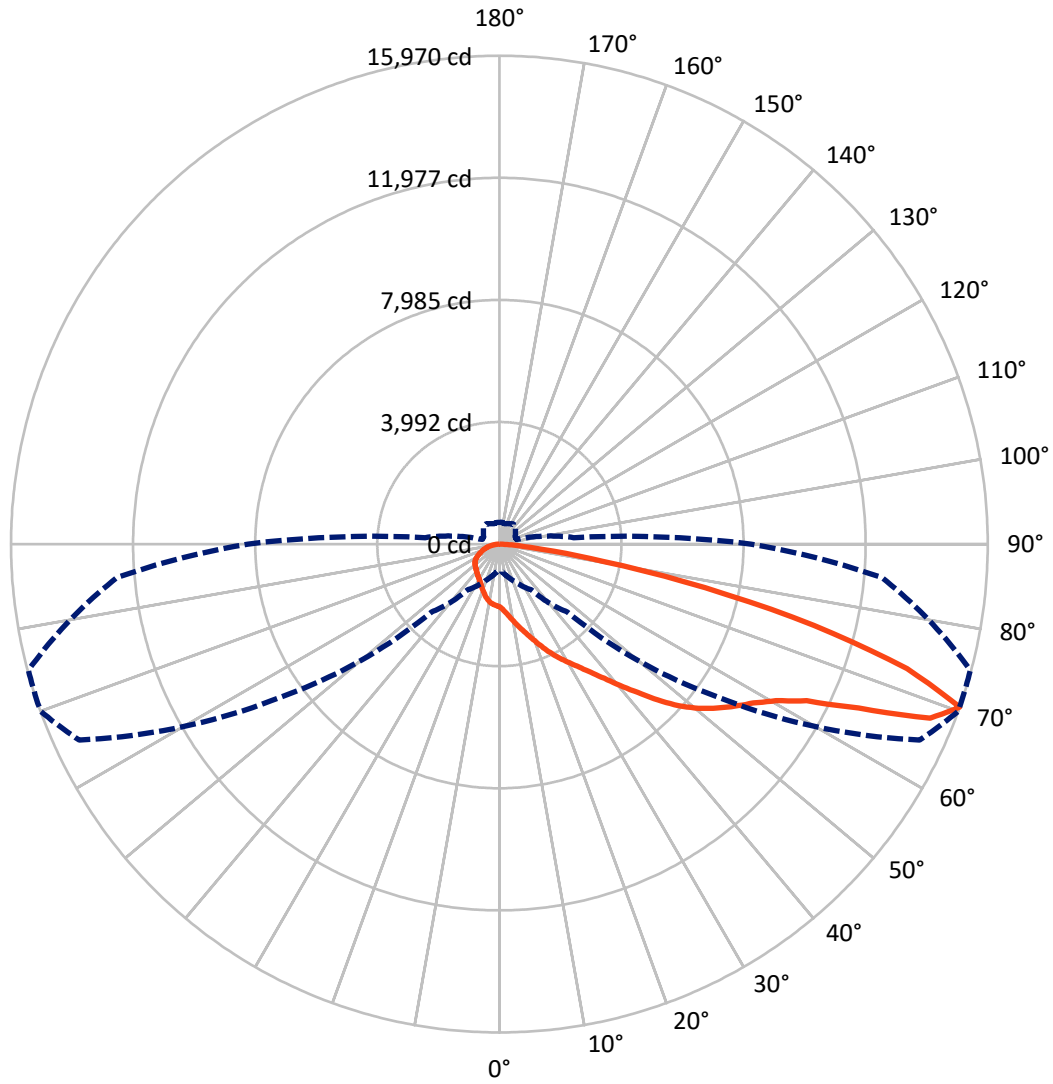
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3156.9	0.0	3156.9
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	14459.5	0.0	14459.5
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	17616.4	0.0	17616.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.8	1.2
10°-20°	679.3	3.9
20°-30°	1203.3	6.8
30°-40°	1811.0	10.3
40°-50°	2739.9	15.6
50°-60°	3925.0	22.3
60°-70°	4338.7	24.6
70°-80°	2448.4	13.9
80°-90°	261.9	1.5
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°	17616.4	100.0
0°-180°	17616.4	100.0

**Coefficient of Utilization**



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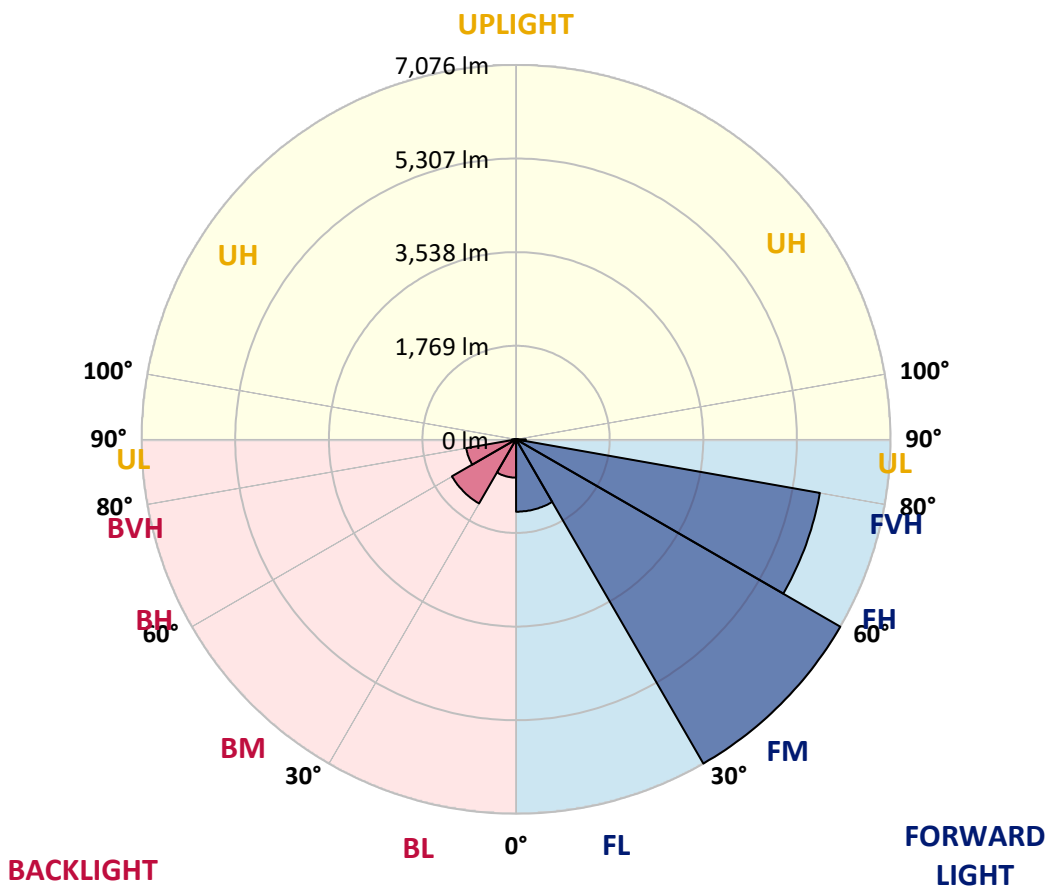
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1367.6	7.8			
FM (30°-60°)	7076.5	40.2			
FH (60°-80°)	5830.3	33.1			G3/7500
FVH (80°-90°)	185.1	1.1			G2/225
BL (0°-30°)	723.8	4.1	B2/1000		
BM (30°-60°)	1399.5	7.9	B2/2500		
BH (60°-80°)	956.8	5.4	B2/1000		G2/1000
BVH (80°-90°)	76.8	0.4			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2054.4	2054.4	2054.4	2054.4	2054.4	2054.4	2054.4	2054.4	2054.4	2054.4	2054.4
2.5°	2275.9	2272.1	2274.6	2272.1	2258.1	2223.7	2195.7	2160.1	2135.9	2121.9	2088.8
5°	2543.2	2539.4	2530.5	2517.8	2492.3	2445.2	2375.2	2297.6	2250.5	2214.8	2144.8
7.5°	2735.4	2735.4	2734.2	2718.9	2701.1	2651.4	2568.7	2466.9	2398.1	2337.0	2222.5
10°	2833.4	2839.8	2848.7	2870.4	2866.5	2839.8	2762.2	2652.7	2566.1	2494.9	2324.3
12.5°	2886.9	2890.7	2906.0	2950.5	2996.4	3002.7	2956.9	2842.4	2748.2	2652.7	2437.6
15°	2955.6	2956.9	2977.3	3030.7	3098.2	3165.7	3154.2	3039.7	2942.9	2837.3	2563.6
17.5°	3009.1	3018.0	3054.9	3117.3	3201.3	3294.2	3350.2	3279.0	3159.3	3038.4	2701.1
20°	3028.2	3034.6	3082.9	3178.4	3293.0	3424.1	3548.8	3529.7	3408.8	3266.2	2856.4
22.5°	3096.9	3096.9	3132.6	3212.8	3347.7	3538.6	3741.0	3790.7	3683.7	3517.0	3023.1
25°	3248.4	3243.3	3259.9	3293.0	3394.8	3630.3	3930.7	4079.6	3959.9	3772.8	3189.9
27.5°	3455.9	3453.3	3452.1	3457.2	3491.5	3710.5	4091.1	4349.4	4229.8	4018.5	3338.8
30°	3681.2	3673.5	3690.1	3674.8	3667.2	3805.9	4227.3	4591.3	4498.4	4261.6	3462.2
32.5°	3987.9	3973.9	3970.1	3920.5	3889.9	3954.9	4336.7	4866.2	4792.4	4523.8	3601.0
35°	4392.7	4380.0	4315.1	4236.2	4145.8	4176.3	4472.9	5134.8	5139.9	4852.2	3783.0
37.5°	4801.3	4803.9	4753.0	4567.1	4474.2	4456.4	4680.4	5462.0	5571.4	5244.3	4018.5
40°	5141.2	5156.5	5156.5	4960.4	4821.7	4805.1	4971.9	5850.2	6067.8	5725.4	4316.4
42.5°	5399.6	5413.6	5458.1	5316.8	5170.5	5227.7	5325.8	6239.7	6630.5	6319.9	4693.1
45°	5683.4	5694.9	5719.1	5637.6	5552.3	5705.1	5726.7	6705.6	7274.5	6986.9	5131.0
47.5°	6060.2	6050.0	6052.6	5992.7	5926.6	6173.5	6168.4	7097.6	7897.0	7717.5	5605.8
50°	6528.6	6547.7	6529.9	6411.5	6333.9	6559.2	6588.5	7531.7	8444.3	8440.5	6084.4
52.5°	6979.2	6986.9	7081.1	7086.2	6927.0	6879.9	6956.3	7969.5	8906.4	9102.4	6543.9
55°	7002.1	7031.4	7314.0	7517.7	7774.8	7396.7	7328.0	8387.0	9353.2	9750.3	7021.2
57.5°	6514.6	6561.7	7041.6	7480.7	8196.1	8283.9	7964.4	8926.7	9799.9	10388.0	7573.7
60°	5473.4	5571.4	6223.1	6895.2	8006.4	8921.7	9266.6	9659.9	10386.7	11039.7	8244.5
62.5°	3495.3	3533.5	4447.5	5572.7	7152.3	8859.3	10684.6	10951.9	11280.3	11888.7	9278.1
65°	1750.2	1872.4	2408.3	3326.0	5157.7	7806.6	11401.2	13318.2	12916.0	13342.4	10953.2
67.5°	1187.6	1227.1	1498.2	1998.4	3024.4	5530.7	10957.0	15311.5	15193.2	15263.2	12739.0
70°	875.7	901.2	1115.0	1415.4	1829.1	3140.2	8723.1	15161.3	15969.6	15944.2	12551.9
72.5°	639.0	651.7	813.4	1080.7	1355.6	1624.2	5327.0	12247.7	13940.6	14675.1	10977.4
75°	464.6	479.9	565.2	808.3	1053.9	1013.2	2629.8	8846.6	10631.1	12044.0	8943.3
77.5°	346.2	365.3	404.8	506.6	738.3	725.5	1136.7	5744.5	6876.1	7866.4	5432.7
80°	249.5	253.3	276.2	324.6	468.4	425.1	541.0	2995.1	3434.2	3762.6	2129.5
82.5°	151.5	155.3	184.6	199.8	290.2	267.3	281.3	969.9	1390.0	1475.3	795.6
85°	44.6	47.1	84.0	91.6	120.9	114.6	113.3	394.6	471.0	602.1	313.1
87.5°	0.0	0.0	0.0	0.0	1.3	7.6	14.0	70.0	105.6	146.4	76.4
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°	2054.4	2054.4	2054.4	2054.4	2054.4	2054.4	2054.4	2054.4	2054.4	2054.4	2054.4
2.5°	2076.1	2046.8	2031.5	2004.8	1985.7	1966.6	1947.5	1929.7	1922.1	1910.6	1913.1
5°	2113.0	2067.2	2021.3	1969.2	1924.6	1887.7	1854.6	1825.3	1812.6	1801.1	1806.2
7.5°	2169.0	2100.3	2012.4	1917.0	1847.0	1796.0	1761.7	1741.3	1734.9	1726.0	1726.0
10°	2240.3	2137.2	1983.2	1847.0	1762.9	1722.2	1706.9	1705.7	1712.0	1713.3	1710.8
12.5°	2319.2	2172.8	1939.9	1764.2	1692.9	1680.2	1691.7	1713.3	1734.9	1746.4	1743.9
15°	2400.7	2195.7	1866.1	1685.3	1642.0	1658.6	1695.5	1738.8	1780.8	1802.4	1801.1
17.5°	2477.0	2200.8	1770.6	1608.9	1597.5	1639.5	1703.1	1770.6	1827.9	1858.4	1859.7
20°	2562.3	2191.9	1672.6	1540.2	1552.9	1621.7	1705.7	1787.1	1854.6	1885.1	1892.8
22.5°	2640.0	2161.4	1577.1	1475.3	1514.7	1600.0	1685.3	1761.7	1821.5	1850.8	1861.0
25°	2710.0	2102.8	1472.7	1420.5	1485.5	1569.5	1634.4	1687.8	1729.9	1747.7	1761.7
27.5°	2748.2	2015.0	1393.8	1377.3	1457.5	1526.2	1561.8	1578.4	1592.4	1587.3	1597.5
30°	2755.8	1905.5	1325.1	1342.9	1415.4	1466.4	1474.0	1457.5	1433.3	1393.8	1402.7
32.5°	2748.2	1779.5	1267.8	1306.0	1368.4	1398.9	1388.7	1345.4	1286.9	1225.8	1229.6
35°	2750.7	1652.2	1220.7	1265.2	1313.6	1330.2	1304.7	1244.9	1182.5	1126.5	1124.0
37.5°	2778.7	1545.3	1181.2	1225.8	1260.2	1262.7	1234.7	1172.3	1140.5	1098.5	1093.4
40°	2856.4	1466.4	1145.6	1186.3	1208.0	1206.7	1174.9	1130.3	1152.0	1138.0	1134.1
42.5°	2983.6	1418.0	1116.3	1144.3	1159.6	1162.1	1136.7	1108.7	1155.8	1138.0	1131.6
45°	3188.6	1415.4	1096.0	1102.3	1126.5	1144.3	1126.5	1094.7	1112.5	1025.9	1009.4
47.5°	3431.7	1458.7	1080.7	1065.4	1107.4	1139.2	1111.2	1060.3	1023.4	944.5	933.0
50°	3724.5	1546.6	1066.7	1025.9	1079.4	1120.1	1092.1	1022.1	966.1	924.1	917.8
52.5°	4072.0	1662.4	1048.9	981.4	1037.4	1110.0	1092.1	1018.3	944.5	906.3	899.9
55°	4436.0	1796.0	1028.5	927.9	990.3	1112.5	1101.0	991.6	927.9	907.6	902.5
57.5°	4887.9	1956.4	991.6	865.6	948.3	1089.6	1065.4	976.3	916.5	899.9	894.8
60°	5474.7	2194.5	921.6	801.9	899.9	1048.9	1033.6	950.8	885.9	871.9	868.1
62.5°	6403.9	2598.0	836.3	740.8	842.7	963.6	986.5	902.5	847.7	846.5	845.2
65°	7918.6	3082.9	735.7	686.1	782.8	893.6	924.1	852.8	808.3	822.3	821.0
67.5°	8980.2	3124.9	653.0	628.8	712.8	817.2	861.7	801.9	753.5	780.3	779.0
70°	8225.4	2437.6	581.7	569.0	637.7	734.5	794.3	738.3	689.9	715.4	710.3
72.5°	6937.2	1868.6	514.2	506.6	561.3	647.9	707.7	674.6	623.7	623.7	612.3
75°	5575.2	1541.5	443.0	439.1	476.1	560.1	627.5	571.5	524.4	521.9	514.2
77.5°	3197.5	1010.7	371.7	369.1	380.6	468.4	487.5	476.1	440.4	423.9	418.8
80°	1274.2	525.7	292.8	276.2	287.7	343.7	384.4	365.3	334.8	314.4	302.9
82.5°	493.9	263.5	206.2	180.7	197.3	248.2	278.8	272.4	252.0	206.2	193.5
85°	201.1	128.6	123.5	104.4	114.6	133.7	160.4	138.7	114.6	81.5	77.6
87.5°	53.5	47.1	45.8	28.0	21.6	6.4	1.3	0.0	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)