

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: P642730

Luminaire Tested: GWS-SA6D-740-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642730  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-740-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36526.6 lumens  
Efficiency: N/A  
Efficacy: 148.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 245.7  
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

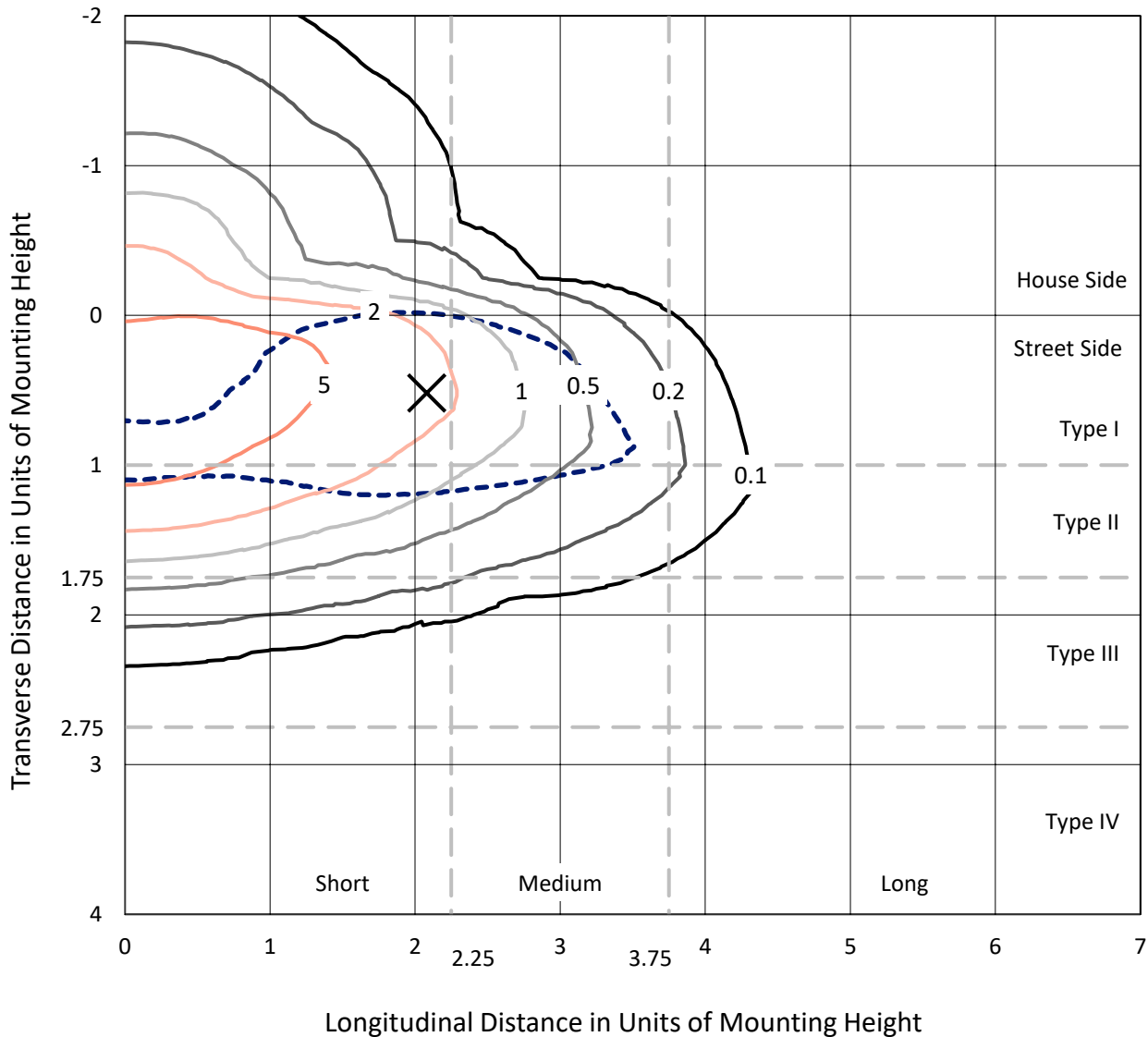


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### Iso-Footcandle Lines of Horizontal Illumination

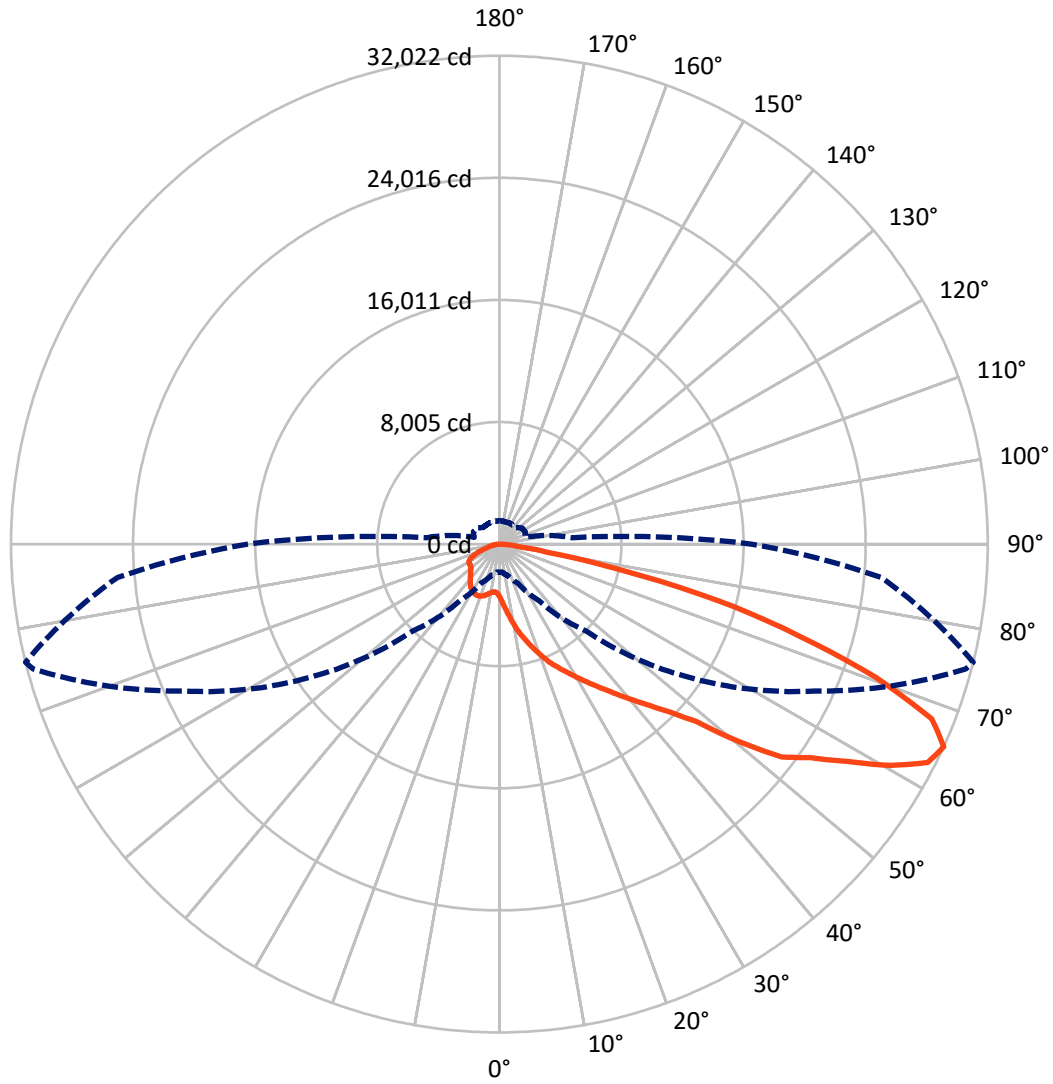
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6105.5	0.0	6105.5
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	30421.1	0.0	30421.1
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	36526.6	0.0	36526.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	410.9	1.1
10°-20°	1565.2	4.3
20°-30°	3050.4	8.4
30°-40°	5101.6	14.0
40°-50°	7304.5	20.0
50°-60°	8647.6	23.7
60°-70°	7190.5	19.7
70°-80°	2942.5	8.1
80°-90°	313.3	0.9
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°	36526.6	100.0
0°-180°	36526.6	100.0

**Coefficient of Utilization**



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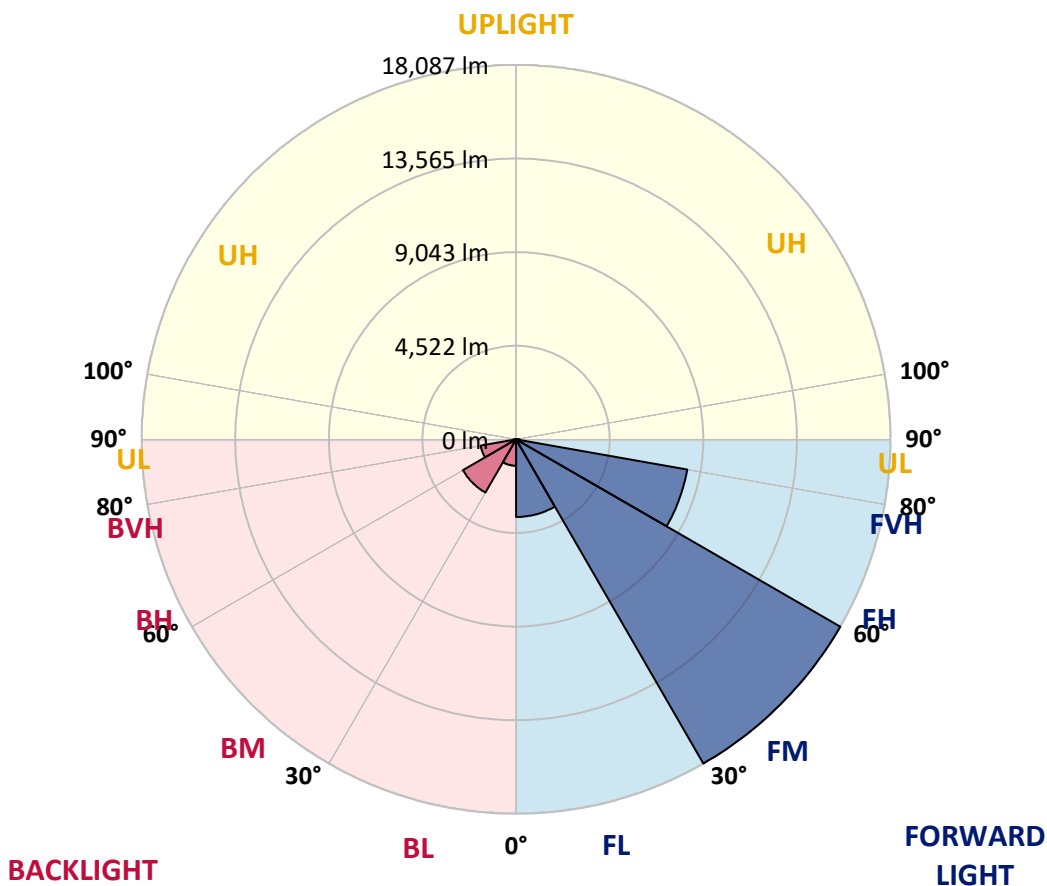
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3749.3	10.3			
FM (30°-60°)	18086.6	49.5			
FH (60°-80°)	8398.4	23.0			G4/12000
FVH (80°-90°)	186.8	0.5			G2/225
BL (0°-30°)	1277.3	3.5	B3/2500		
BM (30°-60°)	2967.1	8.1	B3/5000		
BH (60°-80°)	1734.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	126.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9
2.5°	4848.2	4866.1	4807.1	4786.5	4647.9	4460.4	4303.8	4067.5	3849.3	3815.9	3620.7
5°	6157.8	6080.7	6014.0	5970.3	5777.7	5564.6	5233.3	4789.1	4324.3	4267.8	3846.7
7.5°	6935.8	6923.0	6840.8	6815.2	6666.2	6453.1	6111.6	5559.5	4884.1	4791.7	4152.3
10°	7559.8	7552.1	7511.0	7534.2	7398.1	7190.1	6858.8	6288.7	5497.8	5405.4	4493.8
12.5°	8104.2	8117.1	8109.4	8194.1	8124.8	7963.0	7618.9	6992.3	6111.6	6011.4	4909.8
15°	8502.2	8512.5	8551.0	8735.9	8774.4	8741.1	8391.8	7683.1	6717.6	6573.8	5338.6
17.5°	8615.2	8635.8	8728.2	9026.1	9234.1	9372.8	9113.4	8386.7	7313.3	7156.7	5775.2
20°	8766.7	8789.9	8882.3	9193.0	9498.6	9814.4	9768.2	9100.6	7914.2	7785.8	6216.8
22.5°	9467.8	9449.8	9408.7	9557.6	9775.9	10168.8	10284.4	9786.2	8535.6	8412.4	6704.7
25°	10818.5	10785.1	10523.2	10387.1	10315.2	10554.0	10759.4	10410.2	9141.7	8956.8	7159.2
27.5°	12307.8	12289.9	11956.0	11632.5	11190.8	11088.1	11208.8	10954.6	9729.7	9542.2	7554.7
30°	13717.6	13663.7	13314.5	12908.7	12318.1	11876.4	11699.3	11488.7	10374.2	10179.1	8016.9
32.5°	14978.4	14909.1	14498.2	14048.9	13430.0	12908.7	12379.7	12056.2	11103.5	10877.5	8489.4
35°	16013.3	15944.0	15522.8	15045.2	14364.7	13979.5	13255.4	12672.5	11845.6	11617.1	9046.6
37.5°	16814.5	16750.3	16311.2	15841.3	15248.1	14942.5	14313.4	13365.8	12700.7	12461.9	9637.3
40°	17263.9	17217.6	16865.8	16493.5	15995.3	15730.8	15448.4	14241.5	13658.6	13419.7	10333.1
42.5°	17400.0	17369.1	17122.6	16930.0	16593.6	16393.3	16555.1	15271.2	14680.6	14472.6	11116.4
45°	17058.4	17058.4	16986.5	17084.1	17099.5	17096.9	17664.4	16434.4	15936.3	15707.7	12220.5
47.5°	16185.3	16241.8	16347.1	16827.3	17333.2	17756.9	18961.2	17985.4	17551.5	17364.0	13784.4
50°	14588.1	14742.2	15101.7	16039.0	17114.9	18193.4	20188.7	20278.5	20692.0	20360.7	16085.2
52.5°	12248.8	12225.7	13142.4	14477.7	16118.6	18211.4	20864.0	22302.0	23413.9	23185.4	17795.4
55°	9734.8	9696.3	10551.4	12392.6	14590.7	17523.2	21269.7	23229.0	24923.8	24718.4	19333.6
57.5°	7454.6	7405.8	8165.9	9827.3	12433.7	16062.1	21192.7	24333.2	27001.3	26896.0	21423.8
60°	5130.6	5071.6	5782.9	7236.3	9881.2	13828.0	20340.2	24900.7	29433.0	29469.0	23660.4
62.5°	3081.5	3048.1	3564.2	4691.5	7107.9	11059.9	18344.9	24556.6	31369.2	31531.0	25098.5
65°	1859.1	1836.0	2139.0	2799.0	4509.2	8070.8	15268.6	22797.6	31649.1	32021.5	25131.8
67.5°	1353.3	1355.8	1443.1	1705.1	2629.5	5212.8	11457.9	19644.3	30190.6	30575.7	23547.5
70°	1176.1	1181.2	1227.4	1286.5	1589.5	2983.9	7449.4	15507.4	25879.1	26177.0	19749.6
72.5°	1045.1	1045.1	1075.9	1106.8	1242.9	1818.1	3990.5	10839.0	20424.9	20504.5	15073.5
75°	919.3	911.6	927.0	942.4	1078.5	1271.1	1941.3	7552.1	15086.3	14901.4	9742.5
77.5°	731.8	724.1	726.7	742.1	865.4	909.0	983.5	4717.2	8502.2	8024.6	4303.8
80°	521.3	516.1	544.4	582.9	639.4	557.2	616.3	2282.8	3371.6	3137.9	1669.1
82.5°	310.7	321.0	364.6	395.5	441.7	349.2	398.0	762.7	1194.1	1163.2	677.9
85°	43.7	46.2	131.0	151.5	190.0	136.1	210.6	344.1	477.6	511.0	238.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	18.0	61.6	136.1	138.7	59.1
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°	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9
2.5°	3520.6	3399.9	3227.8	3084.0	2963.3	2865.8	2783.6	2722.0	2704.0	2678.3	2678.3
5°	3649.0	3430.7	3122.5	2904.3	2778.4	2704.0	2652.6	2626.9	2614.1	2598.7	2591.0
7.5°	3826.1	3520.6	3104.6	2883.7	2786.1	2739.9	2706.5	2691.1	2680.9	2665.5	2665.5
10°	4070.1	3654.1	3161.1	2955.6	2878.6	2832.4	2793.9	2768.2	2745.1	2722.0	2716.8
12.5°	4334.6	3828.7	3263.8	3053.2	2971.0	2914.5	2860.6	2822.1	2793.9	2765.6	2757.9
15°	4627.3	4008.5	3374.2	3148.2	3045.5	2968.5	2904.3	2845.2	2806.7	2765.6	2760.5
17.5°	4914.9	4190.8	3466.6	3212.4	3081.5	2986.4	2894.0	2817.0	2768.2	2722.0	2709.1
20°	5259.0	4373.1	3530.8	3230.4	3073.8	2947.9	2837.5	2739.9	2686.0	2632.1	2624.4
22.5°	5574.9	4542.6	3561.6	3204.7	3014.7	2865.8	2737.4	2632.1	2573.0	2519.1	2508.8
25°	5880.4	4691.5	3548.8	3143.1	2924.8	2752.8	2619.2	2514.0	2457.5	2401.0	2385.6
27.5°	6175.8	4791.7	3497.5	3048.1	2811.8	2626.9	2498.5	2403.5	2354.7	2306.0	2285.4
30°	6465.9	4884.1	3417.8	2924.8	2668.0	2496.0	2390.7	2323.9	2275.1	2223.8	2208.4
32.5°	6758.7	4950.9	3297.2	2781.0	2521.7	2380.4	2316.2	2267.4	2216.1	2164.7	2149.3
35°	7054.0	4979.1	3150.8	2616.7	2398.4	2306.0	2282.8	2226.4	2157.0	2095.4	2074.8
37.5°	7405.8	5004.8	2968.5	2454.9	2290.5	2270.0	2264.9	2180.1	2098.0	2013.2	1990.1
40°	7829.5	5038.2	2781.0	2308.5	2203.2	2257.2	2236.6	2121.1	1956.7	1874.6	1848.9
42.5°	8348.2	5099.8	2585.9	2175.0	2139.0	2208.4	2185.3	1977.3	1866.8	1820.6	1807.8
45°	9110.8	5325.8	2390.7	2069.7	2090.3	2139.0	2103.1	1892.5	1848.9	1818.1	1802.7
47.5°	10469.2	5672.4	2221.2	1990.1	2051.7	2077.4	1938.7	1869.4	1836.0	1794.9	1777.0
50°	11881.6	5824.0	2085.1	1941.3	2008.1	2020.9	1848.9	1838.6	1815.5	1771.8	1753.9
52.5°	12836.8	5803.4	2002.9	1923.3	1972.1	1923.3	1807.8	1805.2	1789.8	1738.5	1717.9
55°	13915.3	5839.4	1967.0	1928.5	1956.7	1759.0	1756.4	1764.1	1756.4	1699.9	1689.7
57.5°	15371.3	5949.8	1949.0	1946.5	1946.5	1679.4	1707.6	1717.9	1702.5	1676.8	1669.1
60°	16770.8	5957.5	1915.6	1967.0	1938.7	1630.6	1651.1	1661.4	1643.4	1638.3	1635.7
62.5°	17297.2	5587.7	1841.2	1951.6	1907.9	1576.7	1592.1	1597.2	1579.2	1592.1	1589.5
65°	16514.0	4801.9	1717.9	1877.1	1812.9	1527.9	1517.6	1530.5	1499.6	1533.0	1535.6
67.5°	14662.6	3815.9	1530.5	1735.9	1679.4	1474.0	1453.4	1453.4	1402.1	1453.4	1450.9
70°	11822.5	2696.3	1255.7	1509.9	1533.0	1409.8	1399.5	1340.4	1258.3	1335.3	1327.6
72.5°	8961.9	1936.2	988.6	1194.1	1319.9	1319.9	1322.5	1222.3	1127.3	1163.2	1132.4
75°	5677.6	1363.5	790.9	914.2	1034.9	1158.1	1217.2	1032.3	947.5	932.1	916.7
77.5°	2557.6	896.2	616.3	701.0	734.4	914.2	1111.9	888.5	772.9	739.5	729.3
80°	1070.8	557.2	439.1	495.6	451.9	767.8	980.9	690.8	567.5	521.3	487.9
82.5°	469.9	331.3	279.9	267.1	282.5	570.1	731.8	459.7	354.4	480.2	485.3
85°	197.7	174.6	143.8	131.0	115.6	218.3	344.1	179.8	220.8	125.8	102.7
87.5°	46.2	51.4	38.5	25.7	15.4	2.6	0.0	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)