

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: P638051

Luminaire Tested: GWS-SA4E-722-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638051  
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-SA4E-722-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

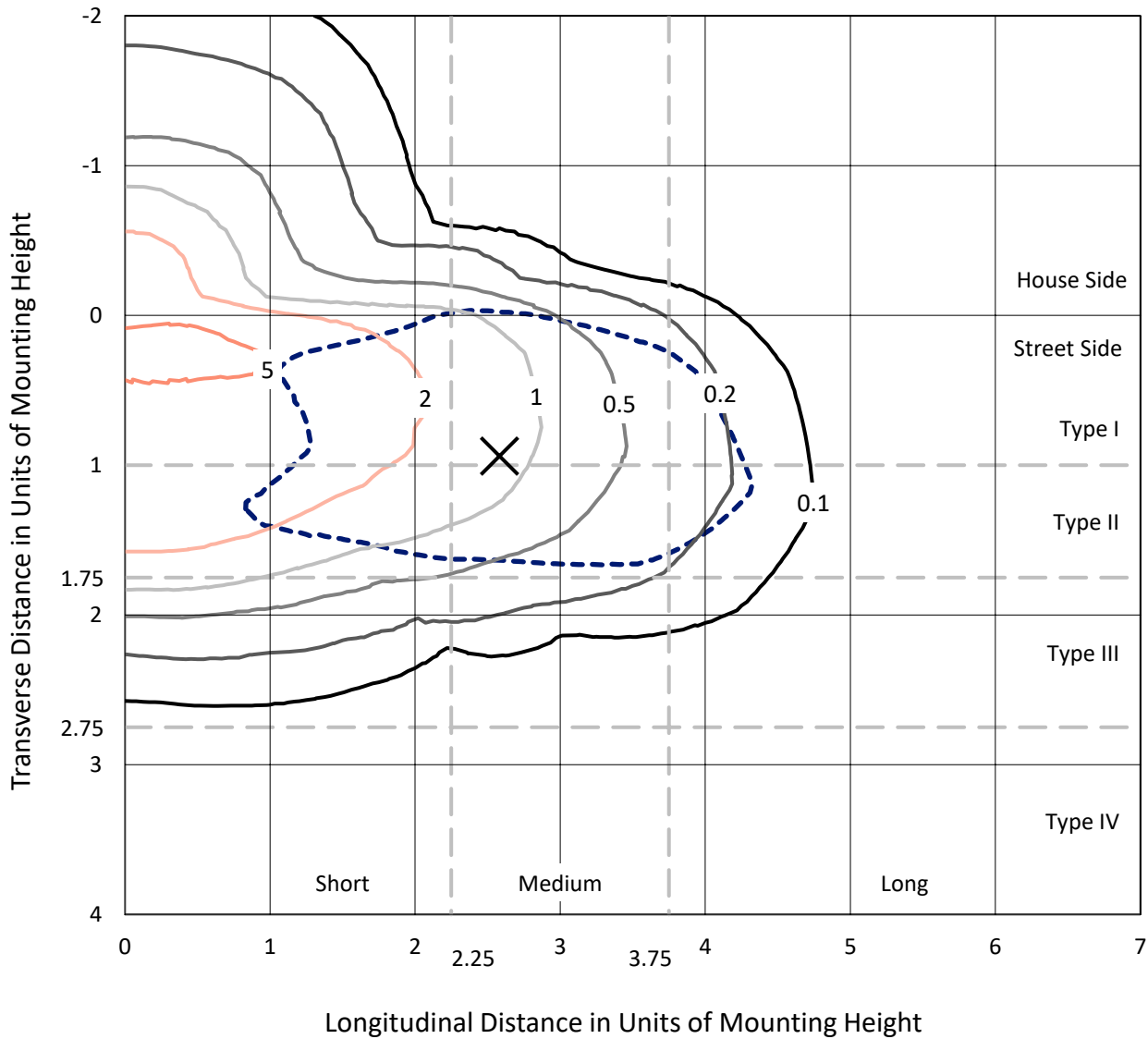
Lumens per Lamp: N/A  
Luminaire Lumens: 22364.8 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): 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

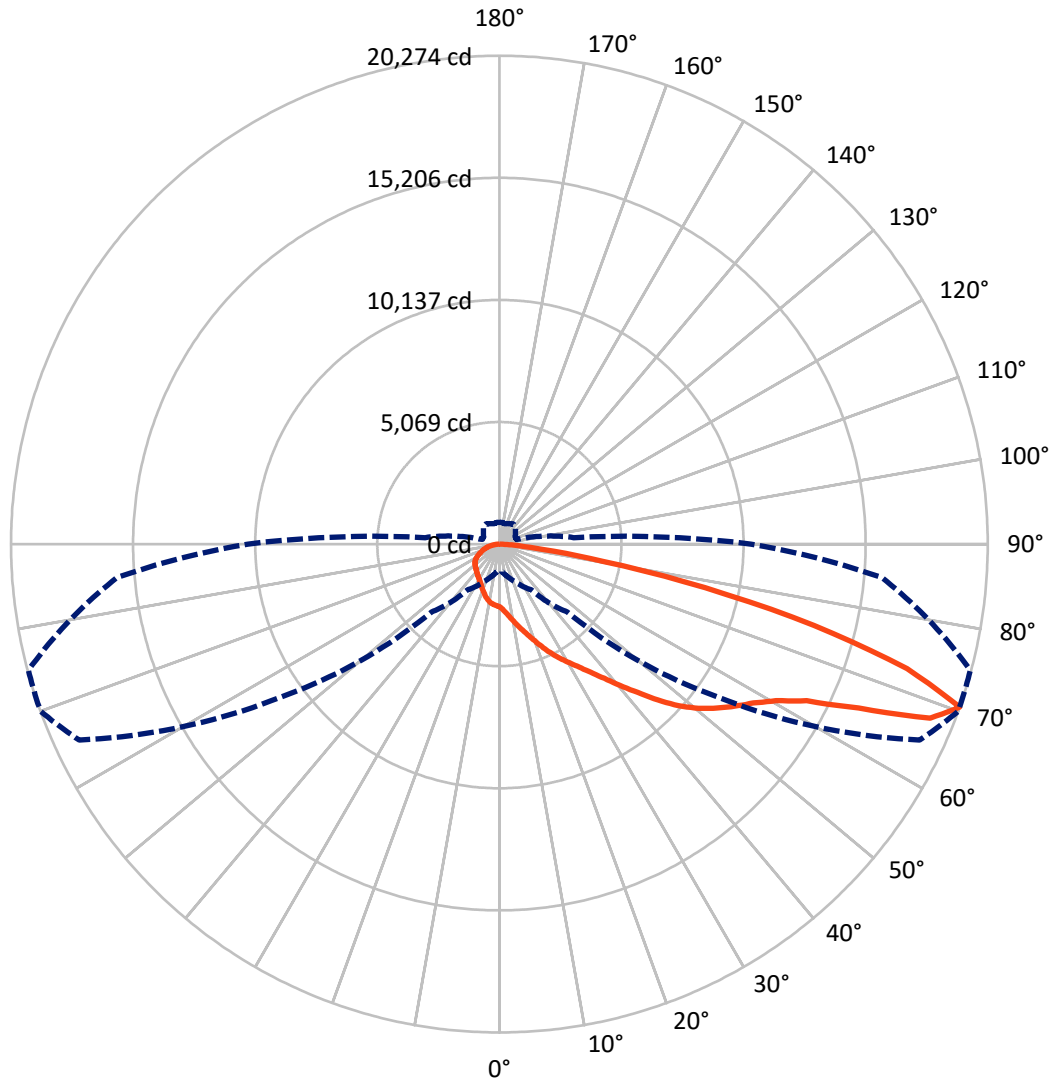
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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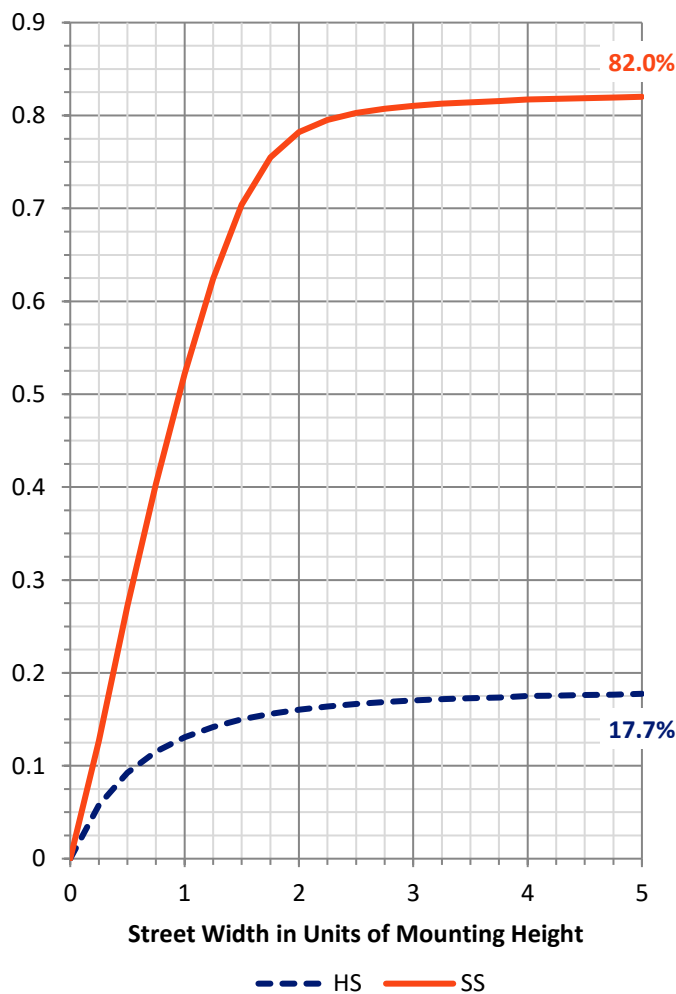
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4007.8	0.0	4007.8
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	18357.0	0.0	18357.0
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	22364.8	0.0	22364.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.1	1.2
10°-20°	862.4	3.9
20°-30°	1527.7	6.8
30°-40°	2299.2	10.3
40°-50°	3478.4	15.6
50°-60°	4983.0	22.3
60°-70°	5508.2	24.6
70°-80°	3108.4	13.9
80°-90°	332.5	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°	22364.8	100.0
0°-180°	22364.8	100.0

**Coefficient of Utilization**



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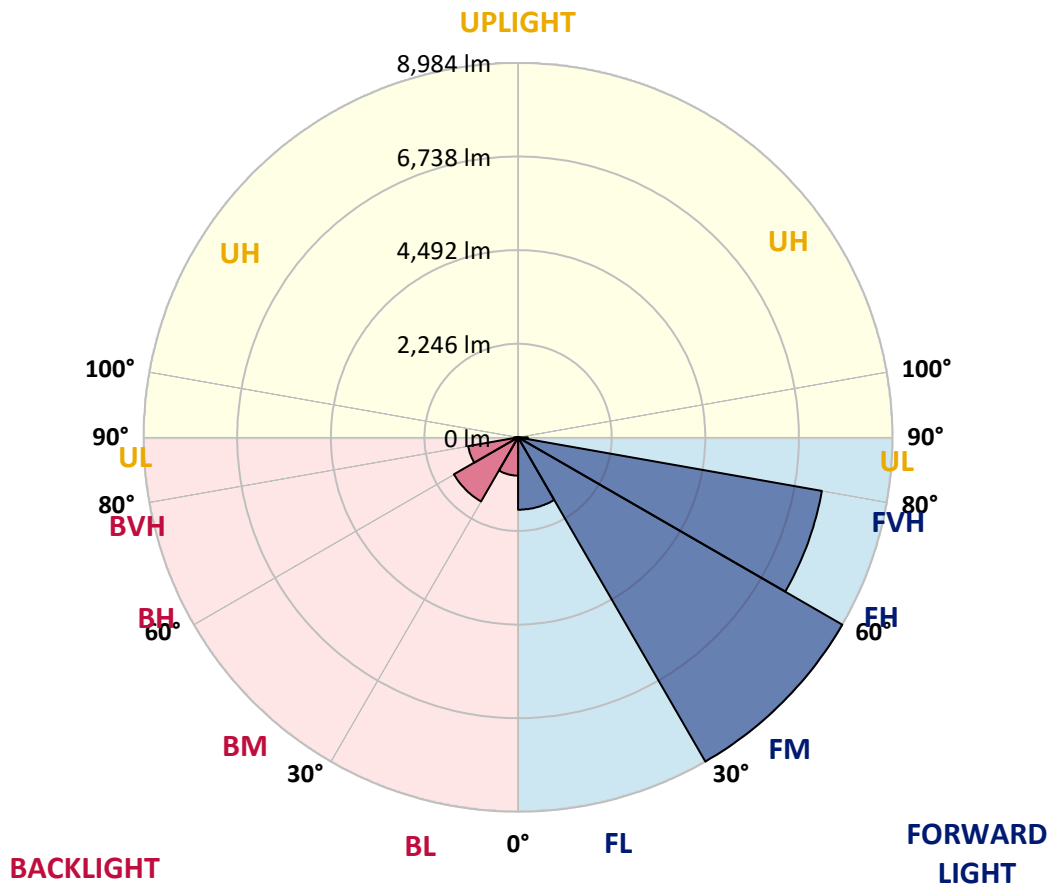
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1736.2	7.8			
FM (30°-60°)	8983.9	40.2			
FH (60°-80°)	7401.8	33.1			G3/7500
FVH (80°-90°)	235.0	1.1			G3/500
BL (0°-30°)	918.9	4.1	B2/1000		
BM (30°-60°)	1776.7	7.9	B2/2500		
BH (60°-80°)	1214.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	97.5	0.4			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2608.2	2608.2	2608.2	2608.2	2608.2	2608.2	2608.2	2608.2	2608.2	2608.2	2608.2
2.5°	2889.4	2884.5	2887.8	2884.5	2866.8	2823.1	2787.6	2742.3	2711.6	2693.8	2651.8
5°	3228.7	3223.9	3212.6	3196.4	3164.1	3104.3	3015.4	2916.9	2857.1	2811.8	2722.9
7.5°	3472.8	3472.8	3471.1	3451.7	3429.1	3366.1	3261.1	3131.8	3044.5	2966.9	2821.5
10°	3597.2	3605.3	3616.6	3644.0	3639.2	3605.3	3506.7	3367.7	3257.8	3167.3	2950.8
12.5°	3665.1	3669.9	3689.3	3745.9	3804.0	3812.1	3753.9	3608.5	3488.9	3367.7	3094.6
15°	3752.3	3753.9	3779.8	3847.7	3933.3	4019.0	4004.4	3859.0	3736.2	3602.0	3254.6
17.5°	3820.2	3831.5	3878.4	3957.5	4064.2	4182.2	4253.3	4162.8	4010.9	3857.4	3429.1
20°	3844.4	3852.5	3913.9	4035.1	4180.6	4347.0	4505.4	4481.1	4327.6	4146.6	3626.3
22.5°	3931.7	3931.7	3976.9	4078.7	4250.0	4492.4	4749.4	4812.4	4676.7	4465.0	3838.0
25°	4124.0	4117.5	4138.5	4180.6	4309.8	4608.8	4990.2	5179.2	5027.3	4789.8	4049.7
27.5°	4387.4	4384.2	4382.5	4389.0	4432.6	4710.6	5193.8	5521.8	5369.9	5101.7	4238.7
30°	4673.4	4663.7	4684.7	4665.3	4655.7	4831.8	5366.7	5828.9	5710.9	5410.3	4395.5
32.5°	5062.9	5045.1	5040.3	4977.2	4938.4	5020.9	5505.7	6177.9	6084.2	5743.2	4571.6
35°	5576.8	5560.6	5478.2	5378.0	5263.3	5302.0	5678.6	6518.9	6525.3	6160.1	4802.7
37.5°	6095.5	6098.7	6034.1	5798.2	5680.2	5657.6	5942.0	6934.2	7073.2	6657.9	5101.7
40°	6527.0	6546.4	6546.4	6297.5	6121.3	6100.3	6312.0	7427.1	7703.4	7268.7	5479.8
42.5°	6855.0	6872.8	6929.3	6750.0	6564.1	6636.8	6761.3	7921.6	8417.7	8023.4	5958.1
45°	7215.4	7229.9	7260.6	7157.2	7048.9	7242.8	7270.3	8513.0	9235.4	8870.1	6514.0
47.5°	7693.7	7680.8	7684.0	7608.1	7524.0	7837.5	7831.1	9010.7	10025.6	9797.7	7116.8
50°	8288.4	8312.6	8290.0	8139.7	8041.1	8327.2	8364.3	9561.8	10720.4	10715.6	7724.4
52.5°	8860.4	8870.1	8989.7	8996.2	8794.2	8734.4	8831.4	10117.7	11307.0	11555.9	8307.8
55°	8889.5	8926.7	9285.4	9544.0	9870.4	9390.5	9303.2	10647.7	11874.3	12378.4	8913.8
57.5°	8270.6	8330.4	8939.6	9497.1	10405.3	10516.8	10111.2	11332.9	12441.5	13188.0	9615.1
60°	6948.7	7073.2	7900.5	8753.8	10164.5	11326.4	11764.4	12263.7	13186.4	14015.4	10466.7
62.5°	4437.5	4486.0	5646.2	7074.8	9080.2	11247.3	13564.6	13903.9	14320.9	15093.3	11778.9
65°	2222.0	2377.1	3057.4	4222.6	6548.0	9910.8	14474.4	16908.0	16397.4	16938.7	13905.5
67.5°	1507.7	1557.8	1902.0	2537.1	3839.6	7021.5	13910.4	19438.7	19288.4	19377.3	16172.8
70°	1111.8	1144.1	1415.6	1797.0	2322.2	3986.6	11074.3	19248.0	20274.1	20241.8	15935.2
72.5°	811.2	827.4	1032.6	1372.0	1721.0	2062.0	6762.9	15549.0	17698.3	18630.7	13936.2
75°	589.8	609.2	717.5	1026.2	1338.0	1286.3	3338.6	11231.1	13496.7	15290.4	11353.9
77.5°	439.5	463.8	513.9	643.2	937.3	921.1	1443.1	7292.9	8729.5	9986.8	6897.0
80°	316.7	321.6	350.7	412.1	594.7	539.7	686.8	3802.4	4359.9	4776.8	2703.5
82.5°	192.3	197.2	234.3	253.7	368.4	339.4	357.1	1231.4	1764.7	1872.9	1010.0
85°	56.6	59.8	106.7	116.4	153.5	145.4	143.8	501.0	597.9	764.4	397.5
87.5°	0.0	0.0	0.0	0.0	1.6	9.7	17.8	88.9	134.1	185.8	97.0
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°	2608.2	2608.2	2608.2	2608.2	2608.2	2608.2	2608.2	2608.2	2608.2	2608.2	2608.2
2.5°	2635.7	2598.5	2579.1	2545.2	2520.9	2496.7	2472.5	2449.8	2440.1	2425.6	2428.8
5°	2682.5	2624.4	2566.2	2499.9	2443.4	2396.5	2354.5	2317.3	2301.2	2286.6	2293.1
7.5°	2753.6	2666.4	2554.9	2433.7	2344.8	2280.2	2236.5	2210.7	2202.6	2191.3	2191.3
10°	2844.1	2713.2	2517.7	2344.8	2238.1	2186.4	2167.0	2165.4	2173.5	2175.1	2171.9
12.5°	2944.3	2758.5	2462.8	2239.8	2149.3	2133.1	2147.6	2175.1	2202.6	2217.1	2213.9
15°	3047.7	2787.6	2369.0	2139.6	2084.6	2105.6	2152.5	2207.4	2260.8	2288.2	2286.6
17.5°	3144.7	2794.0	2247.8	2042.6	2028.1	2081.4	2162.2	2247.8	2320.6	2359.3	2361.0
20°	3253.0	2782.7	2123.4	1955.3	1971.5	2058.8	2165.4	2268.8	2354.5	2393.3	2403.0
22.5°	3351.6	2743.9	2002.2	1872.9	1923.0	2031.3	2139.6	2236.5	2312.5	2349.6	2362.6
25°	3440.4	2669.6	1869.7	1803.4	1885.9	1992.5	2074.9	2142.8	2196.1	2218.7	2236.5
27.5°	3488.9	2558.1	1769.5	1748.5	1850.3	1937.6	1982.8	2003.8	2021.6	2015.1	2028.1
30°	3498.6	2419.1	1682.2	1704.9	1797.0	1861.6	1871.3	1850.3	1819.6	1769.5	1780.8
32.5°	3488.9	2259.1	1609.5	1658.0	1737.2	1776.0	1763.0	1708.1	1633.8	1556.2	1561.0
35°	3492.1	2097.5	1549.7	1606.3	1667.7	1688.7	1656.4	1580.4	1501.2	1430.1	1426.9
37.5°	3527.7	1961.8	1499.6	1556.2	1599.8	1603.1	1567.5	1488.3	1447.9	1394.6	1388.1
40°	3626.3	1861.6	1454.4	1506.1	1533.6	1532.0	1491.6	1435.0	1462.5	1444.7	1439.8
42.5°	3787.9	1800.2	1417.2	1452.8	1472.2	1475.4	1443.1	1407.5	1467.3	1444.7	1436.6
45°	4048.0	1797.0	1391.4	1399.4	1430.1	1452.8	1430.1	1389.7	1412.4	1302.5	1281.5
47.5°	4356.7	1851.9	1372.0	1352.6	1405.9	1446.3	1410.8	1346.1	1299.3	1199.1	1184.5
50°	4728.4	1963.4	1354.2	1302.5	1370.4	1422.1	1386.5	1297.6	1226.5	1173.2	1165.1
52.5°	5169.5	2110.5	1331.6	1245.9	1317.0	1409.1	1386.5	1292.8	1199.1	1150.6	1142.5
55°	5631.7	2280.2	1305.7	1178.1	1257.2	1412.4	1397.8	1258.9	1178.1	1152.2	1145.7
57.5°	6205.4	2483.8	1258.9	1098.9	1203.9	1383.3	1352.6	1239.5	1163.5	1142.5	1136.0
60°	6950.3	2786.0	1170.0	1018.1	1142.5	1331.6	1312.2	1207.1	1124.7	1106.9	1102.1
62.5°	8130.0	3298.2	1061.7	940.5	1069.8	1223.3	1252.4	1145.7	1076.2	1074.6	1073.0
65°	10053.0	3913.9	934.0	871.0	993.8	1134.4	1173.2	1082.7	1026.2	1043.9	1042.3
67.5°	11400.8	3967.2	829.0	798.3	905.0	1037.5	1094.0	1018.1	956.7	990.6	989.0
70°	10442.5	3094.6	738.5	722.3	809.6	932.4	1008.4	937.3	875.9	908.2	901.7
72.5°	8807.1	2372.3	652.9	643.2	712.6	822.5	898.5	856.5	791.8	791.8	777.3
75°	7078.0	1957.0	562.4	557.5	604.4	711.0	796.7	725.6	665.8	662.6	652.9
77.5°	4059.4	1283.1	471.9	468.6	483.2	594.7	618.9	604.4	559.1	538.1	531.7
80°	1617.6	667.4	371.7	350.7	365.2	436.3	488.0	463.8	425.0	399.1	384.6
82.5°	627.0	334.5	261.8	229.5	250.5	315.1	353.9	345.8	320.0	261.8	245.6
85°	255.3	163.2	156.8	132.5	145.4	169.7	203.6	176.1	145.4	103.4	98.6
87.5°	67.9	59.8	58.2	35.6	27.5	8.1	1.6	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)