

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: P643690

Luminaire Tested: GWS-SA6F-740-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643690  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-740-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

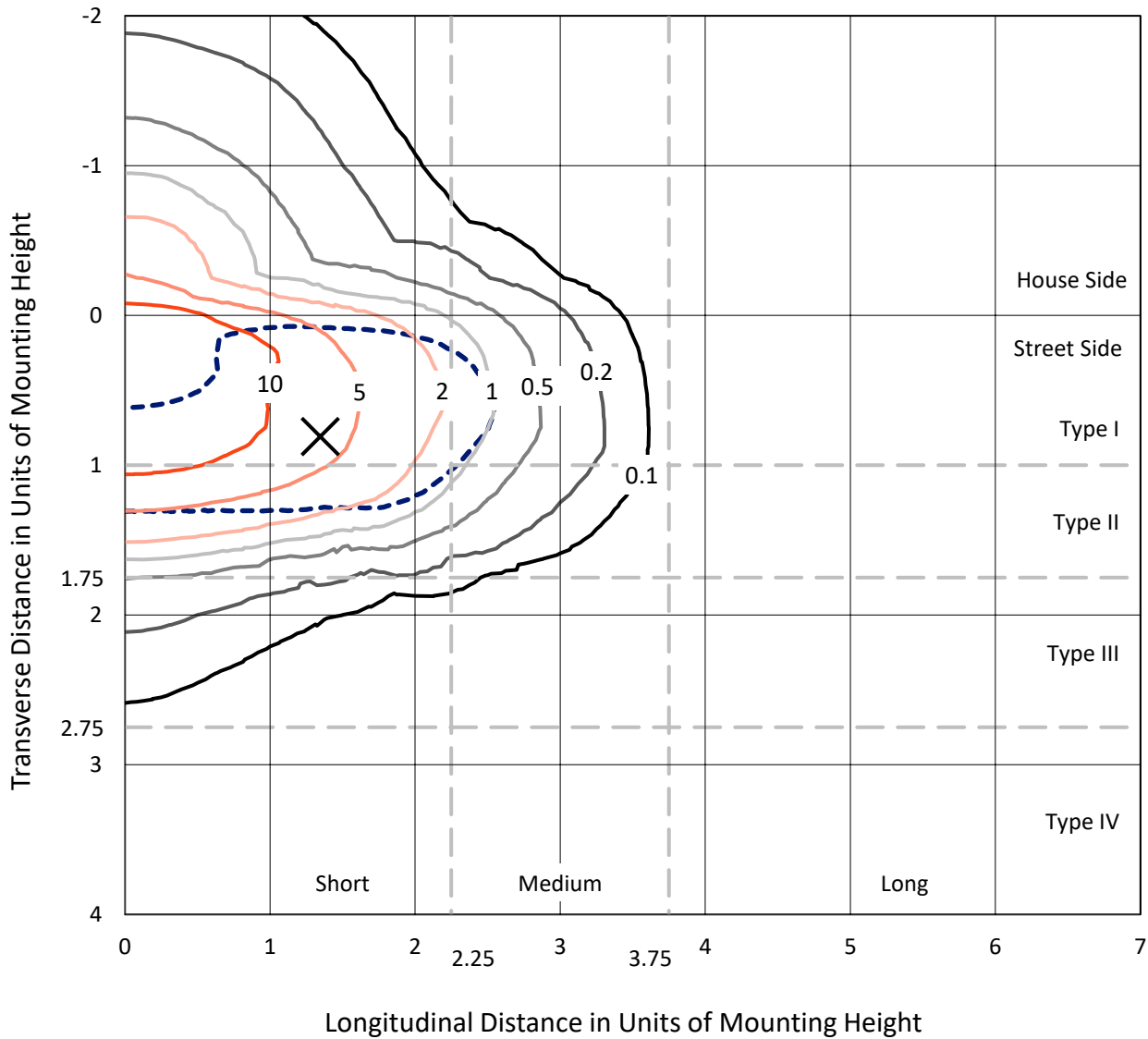
Lumens per Lamp: N/A  
Luminaire Lumens: 50681.6 lumens  
Efficiency: N/A  
Efficacy: 136.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

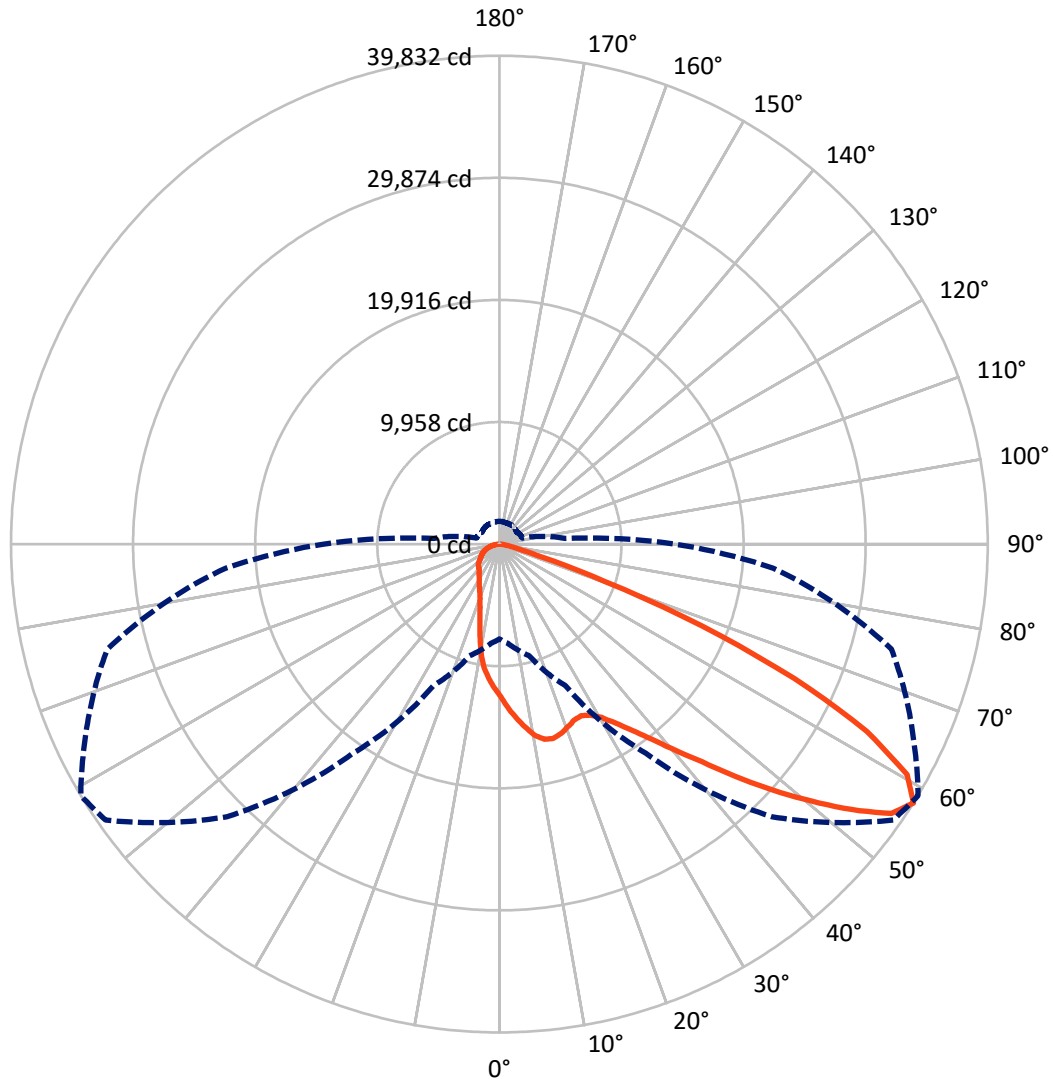
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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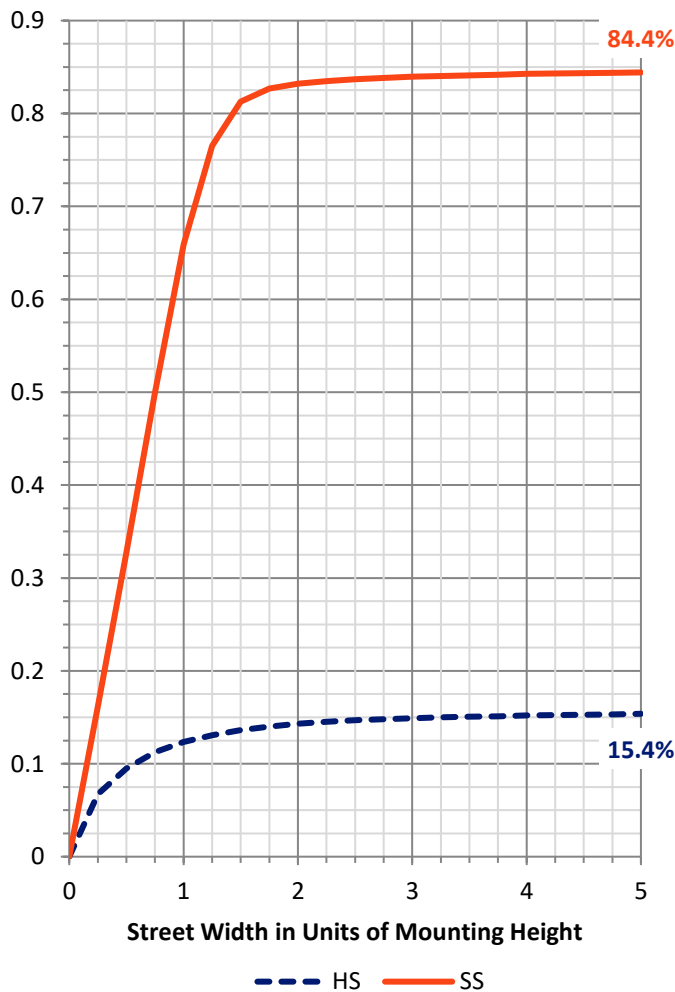
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7865.5	0.0	7865.5
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	42816.1	0.0	42816.1
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	50681.6	0.0	50681.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1155.2	2.3
10°-20°	2927.3	5.8
20°-30°	4745.1	9.4
30°-40°	7633.2	15.1
40°-50°	11853.6	23.4
50°-60°	12767.9	25.2
60°-70°	7410.0	14.6
70°-80°	1934.4	3.8
80°-90°	254.8	0.5
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°	50681.6	100.0
0°-180°	50681.6	100.0

**Coefficient of Utilization**



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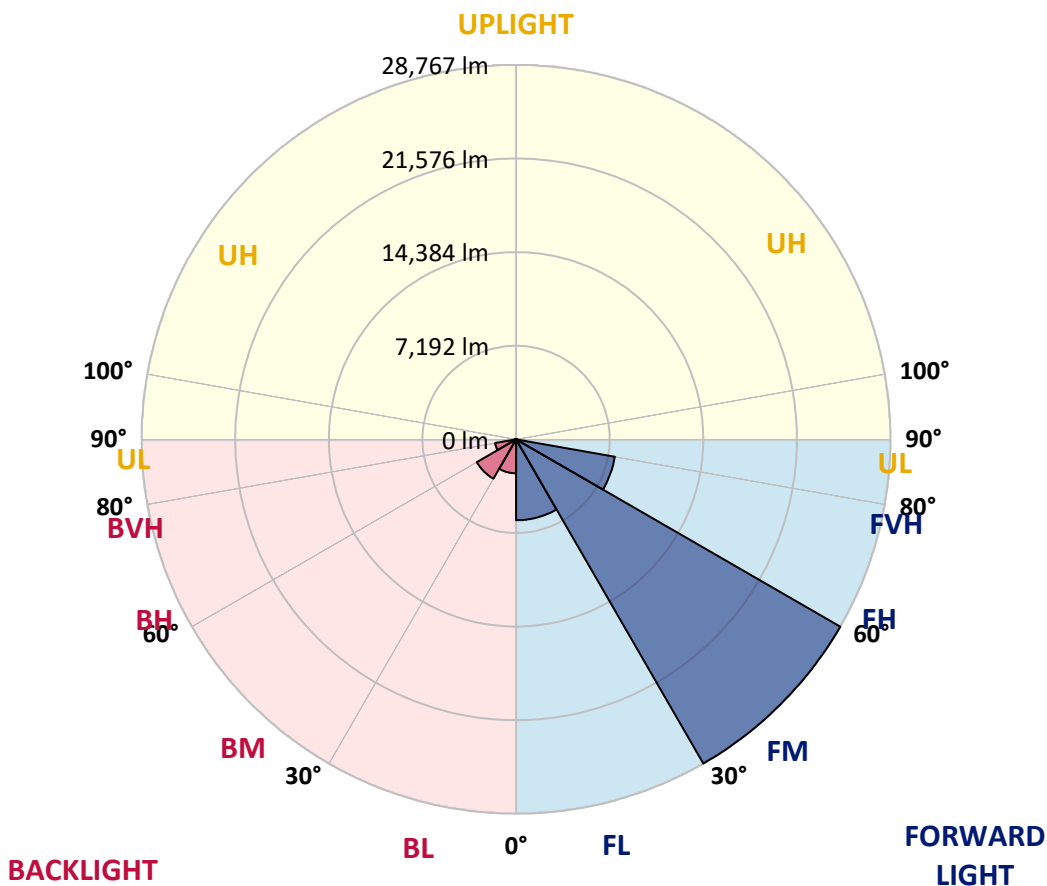
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6218.2	12.3			
FM (30°-60°)	28767.5	56.8			
FH (60°-80°)	7708.5	15.2			G4/12000
FVH (80°-90°)	122.0	0.2			G2/225
BL (0°-30°)	2609.5	5.1	B4/5000		
BM (30°-60°)	3487.3	6.9	B3/5000		
BH (60°-80°)	1636.0	3.2	B3/2500		G3/2500
BVH (80°-90°)	132.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	12441.3	12441.3	12441.3	12441.3	12441.3	12441.3	12441.3	12441.3	12441.3	12441.3	12441.3
2.5°	14111.1	13993.4	14075.4	13929.1	13868.5	13707.9	13501.0	13361.8	13147.8	12869.5	12626.9
5°	15513.3	15431.2	15449.1	15292.1	15152.9	14885.3	14460.8	14225.3	13861.3	13301.2	12780.3
7.5°	15470.5	15566.8	15620.3	15755.9	15795.2	15770.2	15388.4	15060.2	14660.6	13818.5	13033.6
10°	13868.5	14050.4	14214.6	14678.4	15242.1	15955.7	16044.9	15848.7	15445.5	14478.6	13336.9
12.5°	12123.8	12262.9	12409.2	12965.8	13829.2	15256.4	16223.3	16344.6	16184.1	15131.5	13679.4
15°	11267.5	11331.7	11470.8	11838.3	12526.9	14111.1	15912.9	16444.5	16733.5	15823.7	14064.7
17.5°	11231.8	11260.3	11328.1	11524.4	12002.5	13226.3	15352.7	16244.7	17165.2	16555.1	14514.3
20°	11970.4	11895.4	11852.6	11849.0	12084.5	12930.1	14810.4	15923.6	17368.6	17304.4	14995.9
22.5°	12994.3	13019.3	12926.6	12698.2	12669.7	13140.6	14539.3	15598.9	17429.3	17968.0	15441.9
25°	14446.5	14571.4	14296.6	13861.3	13647.3	13750.7	14706.9	15499.0	17422.1	18521.0	15720.2
27.5°	16141.2	16237.6	15959.3	15388.4	14946.0	14696.2	15206.5	15795.2	17482.8	18999.1	15887.9
30°	18071.5	18103.6	17721.8	17122.4	16476.6	15941.4	16037.8	16405.3	17793.2	19627.1	16084.2
32.5°	20429.9	20565.5	19987.5	19038.4	18135.7	17450.7	17154.5	17390.0	18464.0	20369.2	16387.4
35°	23423.4	23469.7	22734.8	21375.4	20098.1	19149.0	18528.2	18653.1	19484.4	21407.5	16844.1
37.5°	26245.6	26292.0	25510.6	24247.5	22420.8	21122.1	20222.9	20165.9	20790.2	22873.9	17589.8
40°	28036.7	28168.7	27819.0	27027.0	25282.2	23530.4	22310.2	22113.9	22502.8	24668.6	18628.1
42.5°	29000.0	29057.1	29050.0	29153.4	28115.2	26374.0	24665.0	24272.5	24533.0	26605.9	19677.1
45°	29007.1	29149.9	29531.6	30527.1	30573.5	29488.8	27640.6	27027.0	26787.9	28557.6	20772.4
47.5°	27708.4	27861.8	28910.8	30869.6	32314.6	32560.8	31205.0	29974.1	28967.9	30238.1	21671.5
50°	23776.6	24161.9	26160.0	29624.4	32657.1	35022.7	34605.2	32935.4	30905.3	31536.8	22235.2
52.5°	20362.1	20347.8	21578.7	26106.4	31226.4	36107.3	37894.8	35982.4	32821.2	32361.0	22378.0
55°	14910.3	14992.4	16251.9	19966.1	27408.7	35058.3	39703.8	38786.8	35019.1	32799.8	22320.9
57.5°	7731.7	8138.4	9430.0	12741.0	20825.9	31447.6	39222.1	39832.2	37252.6	33110.3	22395.8
60°	3906.9	3828.4	4292.2	6083.3	12066.7	24561.5	36253.6	38198.1	37655.8	33352.9	22442.2
62.5°	2608.1	2586.7	2458.3	2818.7	4930.9	14546.4	30905.3	33631.2	34855.0	32782.0	21849.9
65°	2258.5	2215.7	1980.2	1965.9	2394.1	6033.3	22652.7	26438.2	28807.3	30245.2	20433.4
67.5°	2033.7	1969.5	1730.4	1612.7	1719.7	2651.0	12766.0	17732.5	21271.9	25578.4	17329.4
70°	1816.1	1784.0	1544.9	1373.6	1362.9	1616.3	4702.5	9151.7	13015.8	17450.7	12669.7
72.5°	1627.0	1569.9	1366.5	1202.4	1120.3	1145.3	2040.8	3525.1	6736.2	10885.7	7578.3
75°	1409.3	1366.5	1188.1	1024.0	924.1	838.5	1245.2	1630.5	3072.0	5173.5	3578.6
77.5°	1088.2	1059.7	938.4	813.5	756.4	624.4	756.4	1027.6	1420.0	2180.0	1862.5
80°	631.5	649.4	699.3	635.1	556.6	446.0	492.4	592.3	852.7	1181.0	1056.1
82.5°	317.5	339.0	453.1	367.5	331.8	260.5	292.6	349.7	446.0	652.9	413.9
85°	25.0	25.0	82.1	92.8	114.2	92.8	117.7	142.7	203.4	260.5	139.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.7	17.8	32.1	60.7	39.2
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°	12441.3	12441.3	12441.3	12441.3	12441.3	12441.3	12441.3	12441.3	12441.3	12441.3	12441.3
2.5°	12462.7	12280.8	12063.1	11884.7	11610.0	11463.7	11278.2	11049.8	10957.1	10914.3	10889.3
5°	12487.7	12166.6	11702.8	11274.6	10800.1	10425.4	10008.0	9572.7	9323.0	9262.3	9219.5
7.5°	12580.5	12130.9	11392.4	10685.9	9804.6	8987.6	8191.9	7403.4	7000.2	6846.8	6832.6
10°	12708.9	12116.6	11078.4	9904.5	8416.7	7125.1	6193.9	5576.7	5316.2	5230.6	5202.0
12.5°	12869.5	12105.9	10664.5	8819.9	6814.7	5594.5	5062.9	4963.0	4998.6	4991.5	4991.5
15°	13072.8	12120.2	10165.0	7592.5	5512.4	4855.9	4866.6	4984.4	5095.0	5112.8	5112.8
17.5°	13294.1	12105.9	9440.7	6361.6	4731.1	4681.1	4845.2	5009.4	5109.3	5123.5	5123.5
20°	13533.1	12038.1	8527.3	5202.0	4388.5	4570.5	4748.9	4877.3	4938.0	4952.3	4952.3
22.5°	13675.8	11845.5	7535.4	4402.8	4170.9	4395.7	4513.4	4645.4	4652.6	4538.4	4534.8
25°	13654.4	11485.1	6404.4	3889.0	3939.0	4135.2	4285.1	4192.3	4078.1	4013.9	4003.2
27.5°	13518.8	10942.8	5252.0	3500.1	3664.2	3885.5	3839.1	3760.6	3732.0	3660.7	3653.5
30°	13347.6	10275.6	4217.3	3196.9	3378.8	3582.2	3510.8	3503.7	3475.1	3396.7	3396.7
32.5°	13183.4	9587.0	3435.9	2972.1	3196.9	3211.1	3311.0	3318.2	3303.9	3168.3	3154.0
35°	13137.1	8898.4	2907.9	2793.7	3018.5	3011.3	3154.0	3150.5	2904.3	2715.2	2711.6
37.5°	13276.2	8199.1	2593.9	2647.4	2772.3	2865.0	2979.2	2772.3	2690.2	2576.0	2568.9
40°	13572.3	7553.3	2433.3	2561.8	2615.3	2750.9	2572.5	2586.7	2565.3	2479.7	2469.0
42.5°	13964.8	7003.8	2344.1	2533.2	2526.1	2561.8	2365.5	2422.6	2454.7	2390.5	2379.8
45°	14343.0	6525.7	2297.7	2426.2	2461.9	2254.9	2215.7	2269.2	2319.1	2294.2	2283.5
47.5°	14621.3	6111.8	2272.8	2279.9	2379.8	2151.5	2087.2	2112.2	2172.9	2183.6	2180.0
50°	14706.9	5758.6	2244.2	2158.6	2137.2	2048.0	1998.0	1990.9	2062.3	2112.2	2119.3
52.5°	14542.8	5444.6	2169.3	2051.6	1948.1	1962.4	1944.5	1908.8	1980.2	2048.0	2055.1
55°	14300.2	5266.2	2051.6	1948.1	1826.8	1883.9	1891.0	1858.9	1905.3	1951.6	1951.6
57.5°	14318.0	5369.7	1937.4	1851.7	1719.7	1794.7	1833.9	1819.6	1819.6	1855.3	1858.9
60°	14435.8	5519.6	1862.5	1730.4	1612.7	1691.2	1780.4	1766.1	1734.0	1780.4	1780.4
62.5°	14096.8	5319.8	1812.5	1612.7	1498.5	1591.3	1698.3	1691.2	1655.5	1730.4	1737.6
65°	13097.8	4784.6	1755.4	1466.4	1384.4	1491.4	1584.2	1609.1	1577.0	1676.9	1694.8
67.5°	10978.5	4024.6	1644.8	1327.3	1270.2	1370.1	1459.3	1495.0	1470.0	1587.7	1602.0
70°	8184.8	3257.5	1470.0	1173.8	1131.0	1220.2	1302.3	1316.6	1320.1	1459.3	1473.5
72.5°	5219.9	2533.2	1238.1	1002.6	970.5	1038.3	1098.9	1156.0	1181.0	1313.0	1309.4
75°	2911.4	1883.9	995.4	849.2	792.1	845.6	917.0	984.7	1056.1	1248.8	1270.2
77.5°	1676.9	1323.7	788.5	681.5	613.7	670.8	731.4	827.8	1041.8	1209.5	1188.1
80°	945.5	859.9	595.8	499.5	456.7	499.5	545.9	727.9	820.6	892.0	902.7
82.5°	442.4	481.7	406.7	306.8	306.8	335.4	378.2	563.7	620.8	506.6	442.4
85°	160.6	217.6	199.8	157.0	139.1	135.6	235.5	321.1	199.8	178.4	153.4
87.5°	42.8	60.7	57.1	39.2	21.4	17.8	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)