

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: P640222

Luminaire Tested: GWS-SA5D-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640222  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-740-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

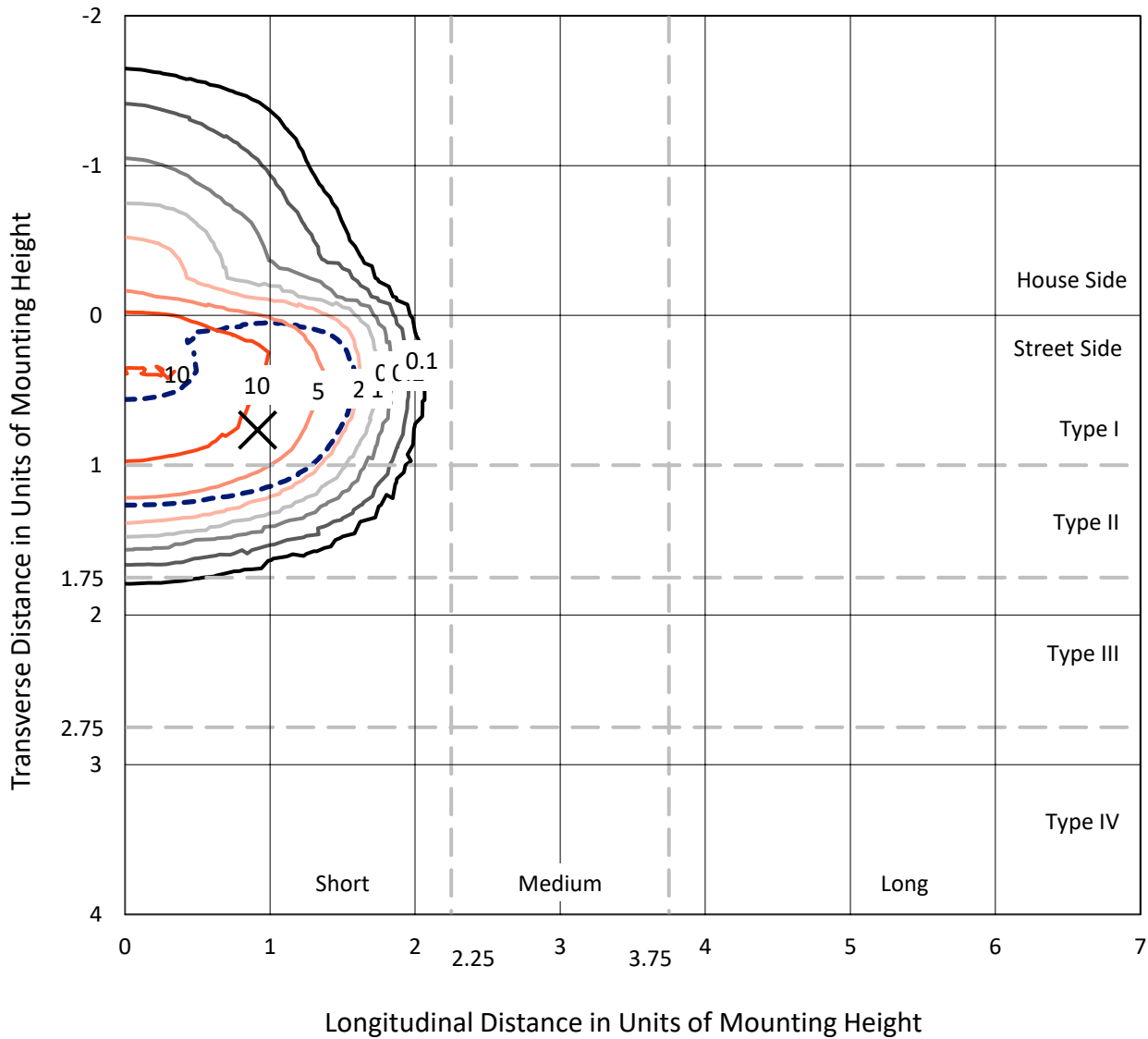
Lumens per Lamp: N/A  
Luminaire Lumens: 22625.2 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

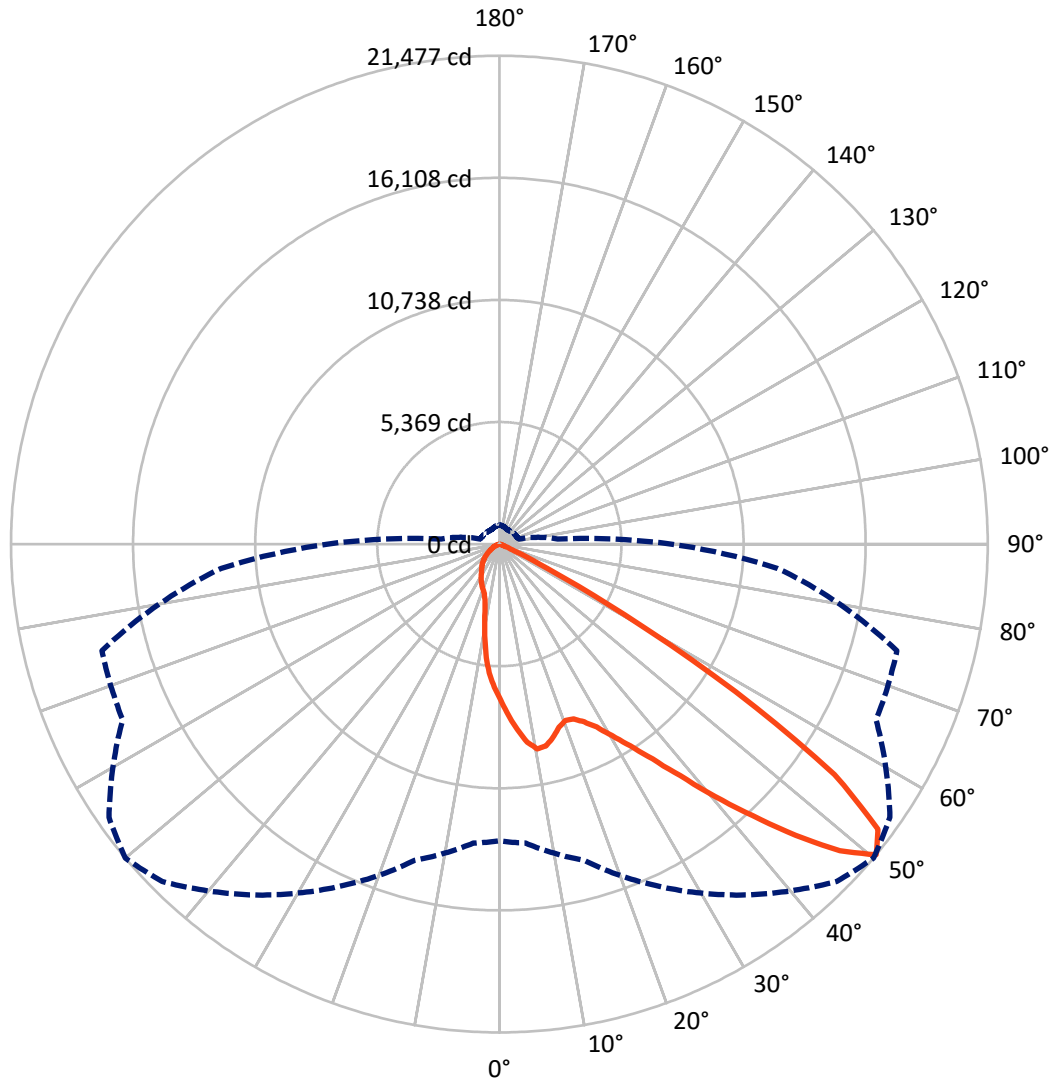
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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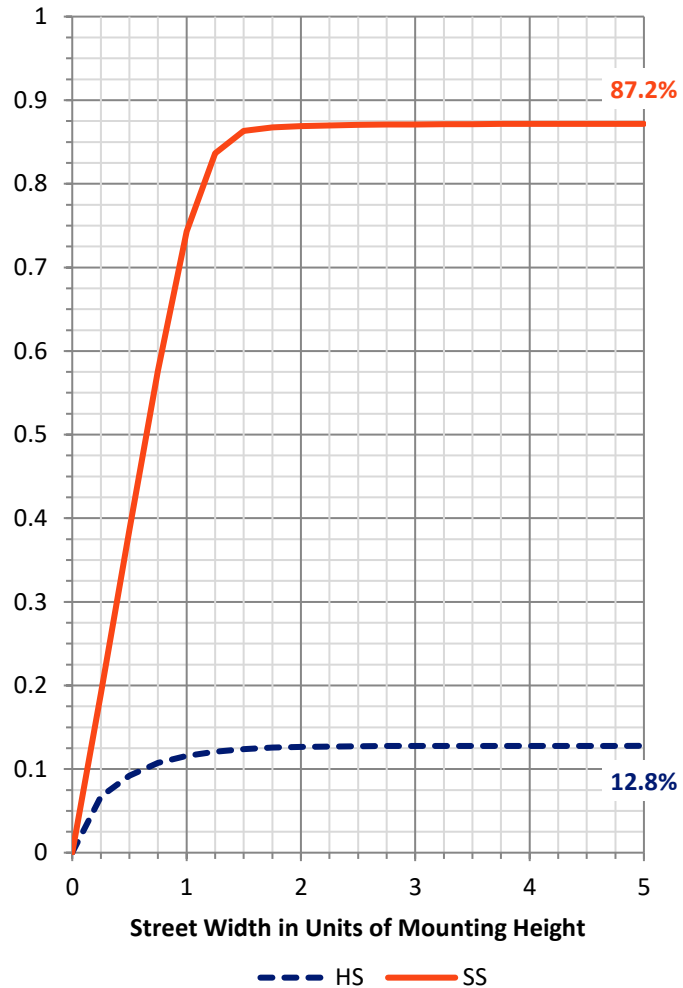
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2907.0	0.0	2907.0
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	19718.2	0.0	19718.2
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	22625.2	0.0	22625.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	635.9	2.8
10°-20°	1640.6	7.3
20°-30°	2707.5	12.0
30°-40°	4468.0	19.7
40°-50°	7069.4	31.2
50°-60°	5352.4	23.7
60°-70°	669.9	3.0
70°-80°	75.8	0.3
80°-90°	5.8	0.0
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°	22625.2	100.0
0°-180°	22625.2	100.0

**Coefficient of Utilization**



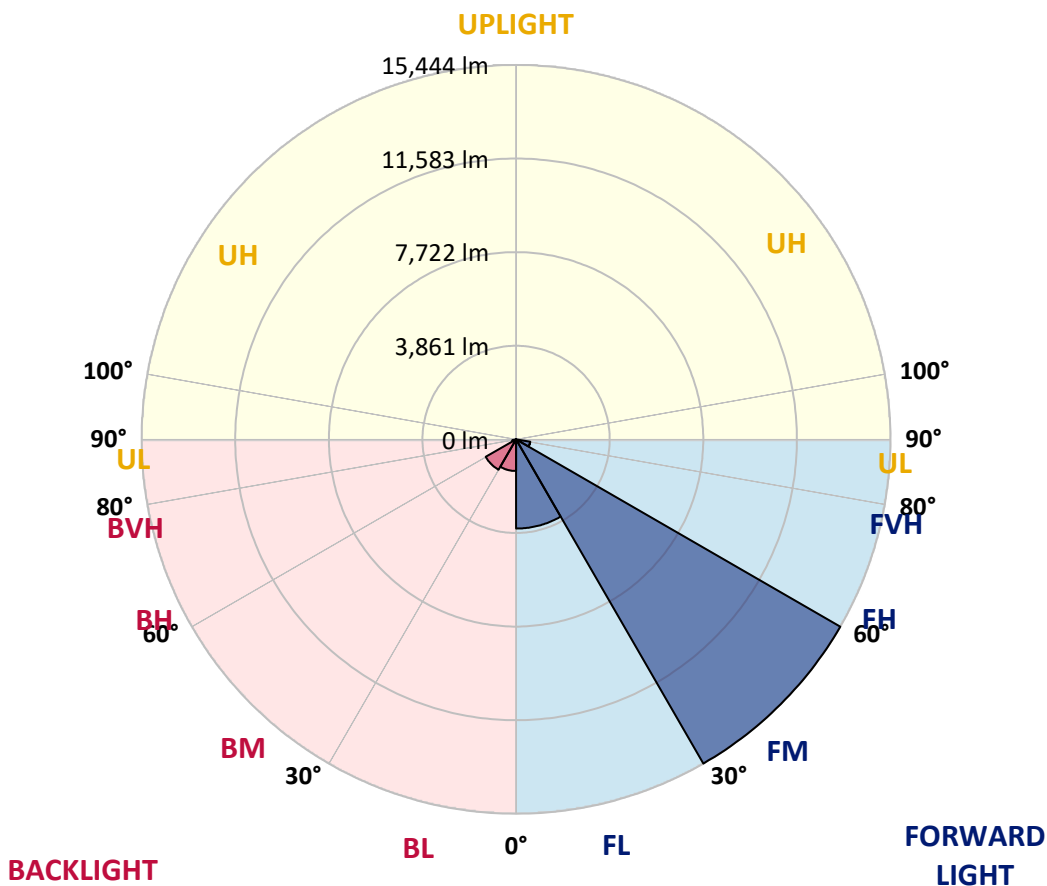
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3679.2	16.3			
FM (30°-60°)	15444.1	68.3			
FH (60°-80°)	592.3	2.6			G0/660
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	1304.8	5.8	B3/2500		
BM (30°-60°)	1445.7	6.4	B2/2500		
BH (60°-80°)	153.4	0.7	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	6854.5	6854.5	6854.5	6854.5	6854.5	6854.5	6854.5	6854.5	6854.5	6854.5	6854.5
2.5°	7810.7	7873.1	7855.9	7774.1	7685.8	7623.3	7526.4	7496.3	7276.6	7123.7	6962.2
5°	8753.9	8773.3	8751.8	8652.7	8497.6	8349.1	8189.7	8097.1	7728.9	7397.2	7059.1
7.5°	8980.0	8956.3	8997.3	9046.8	9025.2	8960.6	8792.7	8691.5	8252.1	7711.6	7199.1
10°	8273.7	8219.8	8372.7	8629.0	8898.2	9201.8	9158.8	9167.4	8762.5	8107.9	7382.1
12.5°	7336.9	7315.4	7429.5	7726.7	8254.3	8943.4	9109.2	9387.0	9229.8	8536.4	7591.0
15°	6925.6	6936.4	7005.3	7192.6	7571.6	8428.7	8827.1	9328.9	9647.6	8952.0	7821.4
17.5°	6988.1	7026.8	7024.7	7087.1	7317.5	8004.5	8469.6	9145.8	9970.6	9430.1	8086.3
20°	7412.3	7451.1	7392.9	7345.5	7423.1	7896.8	8282.3	8960.6	10188.1	9912.5	8366.3
22.5°	8047.6	8092.8	7955.0	7819.3	7769.8	8073.4	8353.4	8885.3	10353.9	10353.9	8616.1
25°	8816.4	8878.8	8665.6	8424.4	8286.6	8446.0	8657.0	9055.4	10524.1	10750.2	8786.2
27.5°	9675.6	9677.8	9494.7	9223.4	8964.9	8984.3	9111.4	9438.7	10711.4	11176.6	8919.7
30°	10642.5	10649.0	10405.6	10080.5	9755.3	9667.0	9774.7	10022.3	11101.2	11712.8	9104.9
32.5°	11891.5	11921.7	11572.8	11094.7	10672.7	10506.8	10569.3	10829.9	11721.4	12384.7	9382.7
35°	13579.9	13612.2	13097.5	12466.5	11794.6	11544.8	11607.3	11870.0	12619.4	13338.7	9826.3
37.5°	15246.7	15289.7	14768.6	14180.7	13259.0	12845.5	12910.1	13159.9	13967.5	14656.6	10537.0
40°	16398.8	16456.9	16295.4	15899.2	15044.2	14501.6	14579.1	14669.5	15451.2	16233.0	11458.7
42.5°	17006.1	17087.9	17156.8	17359.2	16909.1	16454.8	16323.4	16329.9	16960.8	17839.5	12417.0
45°	17042.7	17122.3	17475.5	18257.2	18599.6	18504.9	18265.8	18104.3	18112.9	18909.7	13015.7
47.5°	15858.2	16006.8	16668.0	18199.1	19486.9	20272.9	20152.3	19769.0	18597.5	18980.8	12951.0
50°	13052.3	13198.7	14400.3	16603.4	18840.8	20979.2	21476.7	20962.0	18280.9	18095.7	12285.6
52.5°	9479.6	9494.7	10274.3	12847.7	16222.2	19676.4	20847.9	20798.3	17798.5	17023.3	11376.9
55°	4502.9	4449.1	5325.6	7250.8	11219.6	15914.2	17889.0	18448.9	17113.7	16248.0	10672.7
57.5°	1311.5	1337.3	1727.1	2829.7	5612.0	10170.9	12251.2	13293.5	14047.2	13358.1	8278.0
60°	587.9	590.1	656.8	861.4	1869.2	4731.2	6333.4	7623.3	8398.6	7782.7	4106.7
62.5°	426.4	428.5	454.4	486.7	635.3	1602.2	2375.3	3165.6	3223.8	2110.4	1040.1
65°	355.3	355.3	359.6	359.6	381.2	572.8	721.4	930.3	783.9	581.4	407.0
67.5°	286.4	288.6	292.9	292.9	286.4	286.4	310.1	340.3	363.9	450.1	374.7
70°	224.0	221.8	221.8	224.0	217.5	185.2	200.3	228.3	249.8	351.0	325.2
72.5°	174.4	176.6	174.4	165.8	150.7	109.8	118.4	148.6	159.4	219.7	219.7
75°	131.4	133.5	124.9	94.8	62.5	34.5	45.2	73.2	92.6	107.7	79.7
77.5°	17.2	17.2	12.9	12.9	10.8	12.9	12.9	17.2	25.8	25.8	19.4
80°	2.2	2.2	2.2	4.3	6.5	8.6	8.6	8.6	8.6	10.8	10.8
82.5°	2.2	2.2	2.2	2.2	6.5	6.5	8.6	8.6	8.6	8.6	8.6
85°	0.0	0.0	0.0	2.2	4.3	6.5	6.5	8.6	8.6	8.6	8.6
87.5°	0.0	0.0	0.0	2.2	4.3	6.5	6.5	6.5	8.6	8.6	8.6
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°	6854.5	6854.5	6854.5	6854.5	6854.5	6854.5	6854.5	6854.5	6854.5	6854.5	6854.5
2.5°	6865.3	6740.4	6589.7	6486.3	6339.9	6242.9	6105.1	6012.5	5932.8	5870.4	5904.9
5°	6867.5	6669.3	6361.4	6098.7	5812.3	5549.5	5267.4	5045.6	4845.3	4754.9	4804.4
7.5°	6910.5	6626.3	6154.7	5687.3	5138.2	4595.5	4087.3	3673.8	3469.3	3372.4	3402.5
10°	6994.5	6606.9	5924.2	5149.0	4257.4	3516.6	3023.5	2743.5	2629.4	2569.1	2579.9
12.5°	7072.0	6594.0	5624.9	4440.5	3359.4	2728.5	2472.2	2433.4	2457.1	2459.3	2457.1
15°	7177.6	6570.3	5254.5	3712.6	2687.5	2358.1	2364.5	2420.5	2476.5	2493.7	2489.4
17.5°	7289.5	6533.7	4776.4	3014.9	2280.5	2250.4	2325.8	2401.1	2457.1	2465.7	2467.9
20°	7405.8	6458.3	4231.6	2461.4	2091.0	2168.6	2252.5	2308.5	2349.4	2362.4	2366.7
22.5°	7459.7	6298.9	3602.8	2065.2	1964.0	2067.3	2129.8	2203.0	2215.9	2168.6	2177.2
25°	7431.7	6029.8	2989.0	1798.2	1836.9	1940.3	2032.9	1996.3	1942.4	1908.0	1918.8
27.5°	7343.4	5672.3	2388.2	1602.2	1701.3	1832.6	1843.4	1802.5	1793.9	1765.9	1774.5
30°	7248.6	5261.0	1920.9	1445.0	1563.4	1701.3	1668.9	1684.0	1686.2	1653.9	1664.6
32.5°	7190.5	4830.3	1529.0	1339.5	1475.1	1501.0	1565.6	1595.7	1597.9	1522.5	1535.4
35°	7209.9	4406.0	1294.2	1253.3	1393.3	1386.8	1477.3	1494.5	1369.6	1266.2	1277.0
37.5°	7367.1	4014.1	1160.7	1186.6	1251.2	1300.7	1369.6	1255.5	1227.5	1180.1	1186.6
40°	7659.9	3680.3	1081.0	1145.7	1154.3	1233.9	1128.4	1143.5	1145.7	1115.5	1122.0
42.5°	8002.3	3402.5	1033.7	1122.0	1100.4	1113.4	1007.8	1038.0	1070.3	1057.4	1059.5
45°	8174.6	3131.2	992.8	1040.1	1046.6	923.8	900.2	932.5	973.4	979.8	982.0
47.5°	8021.7	2872.7	949.7	921.7	964.8	842.0	814.0	824.8	872.2	898.0	902.3
50°	7554.4	2575.6	885.1	816.2	792.5	755.9	730.0	732.2	786.0	831.2	839.9
52.5°	6897.6	2265.5	779.6	691.3	637.4	665.4	671.9	659.0	708.5	753.7	762.3
55°	6260.2	1877.8	618.0	562.1	512.5	572.8	590.1	572.8	587.9	618.0	620.2
57.5°	4408.2	1061.7	473.8	465.2	424.2	491.0	519.0	493.1	467.3	486.7	491.0
60°	2043.7	555.6	363.9	363.9	353.2	422.1	469.5	432.9	383.3	391.9	398.4
62.5°	639.6	351.0	267.0	252.0	288.6	359.6	398.4	361.8	303.6	303.6	312.3
65°	361.8	301.5	211.0	193.8	234.7	288.6	312.3	273.5	221.8	217.5	217.5
67.5°	335.9	286.4	187.4	157.2	165.8	185.2	193.8	168.0	152.9	150.7	152.9
70°	277.8	239.0	150.7	107.7	101.2	99.1	103.4	96.9	92.6	94.8	101.2
72.5°	172.3	144.3	94.8	64.6	56.0	53.8	53.8	53.8	51.7	51.7	51.7
75°	62.5	53.8	43.1	32.3	28.0	25.8	25.8	28.0	25.8	23.7	21.5
77.5°	19.4	17.2	17.2	17.2	15.1	12.9	10.8	10.8	8.6	6.5	6.5
80°	10.8	10.8	10.8	10.8	8.6	8.6	6.5	4.3	2.2	2.2	0.0
82.5°	10.8	10.8	10.8	8.6	8.6	8.6	6.5	4.3	2.2	0.0	0.0
85°	8.6	8.6	8.6	8.6	8.6	8.6	6.5	4.3	2.2	0.0	0.0
87.5°	8.6	8.6	8.6	8.6	8.6	8.6	6.5	4.3	2.2	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)