

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: P643199

Luminaire Tested: GWS-SA6E-740-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643199  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-740-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

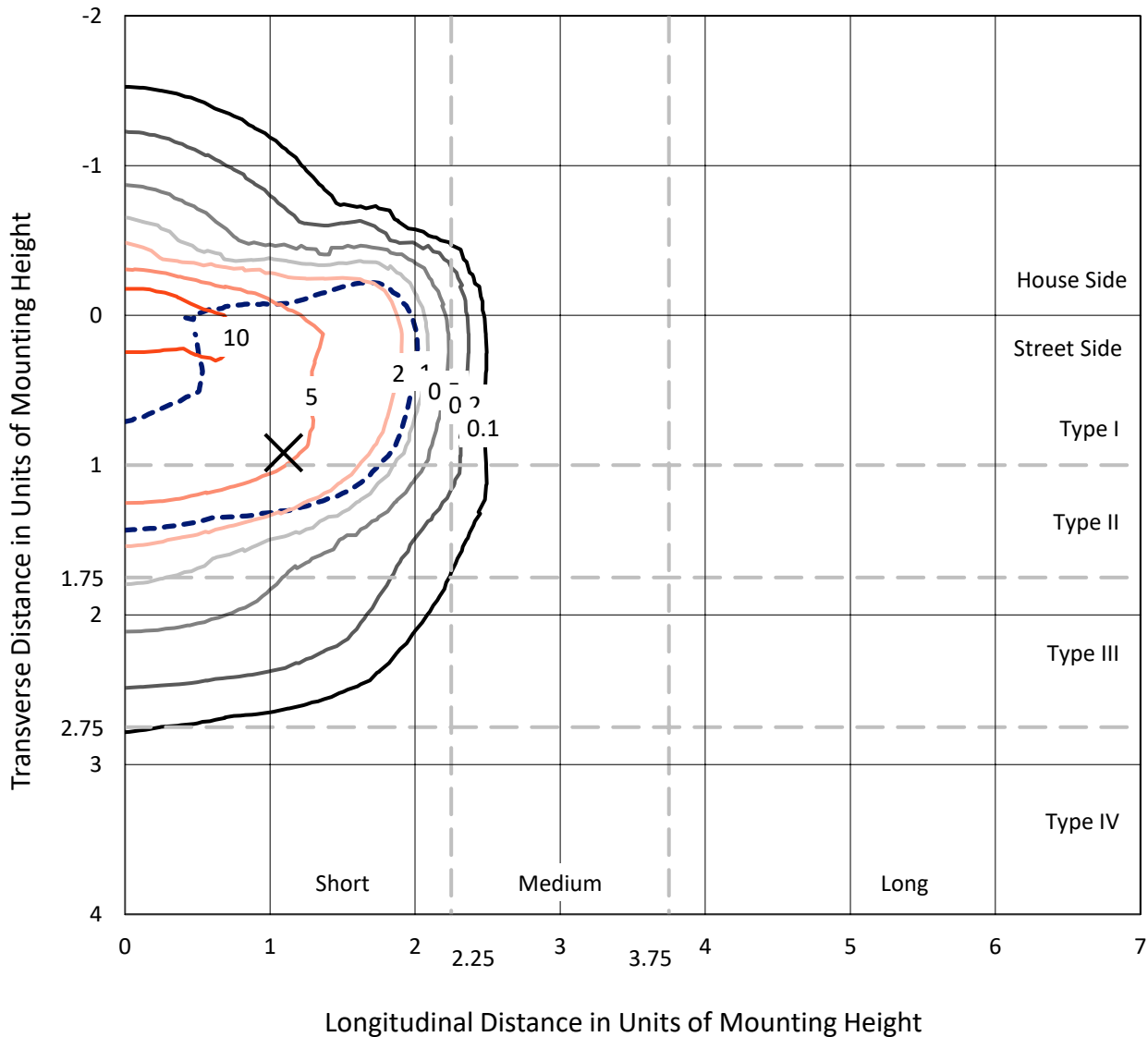
Lumens per Lamp: N/A  
Luminaire Lumens: 26285.3 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

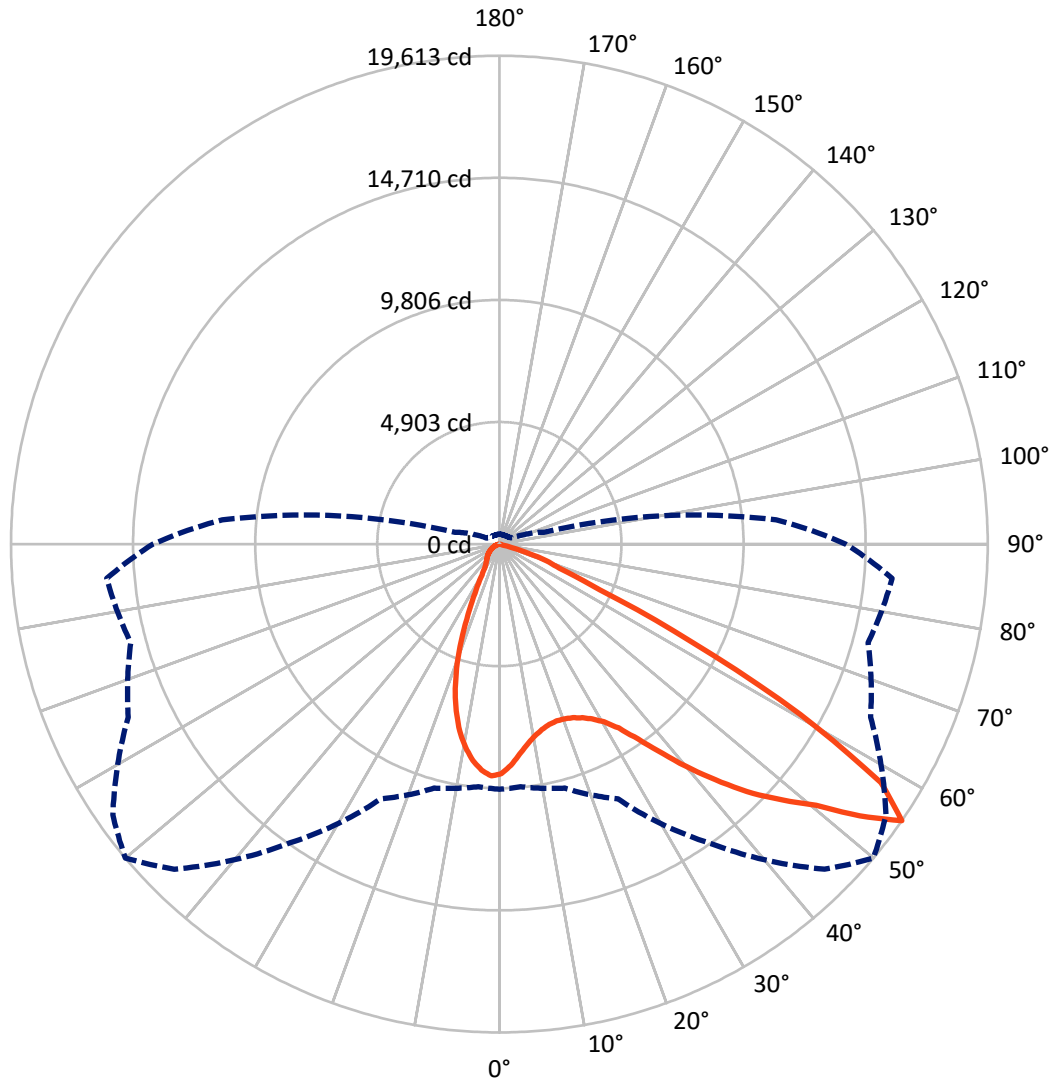
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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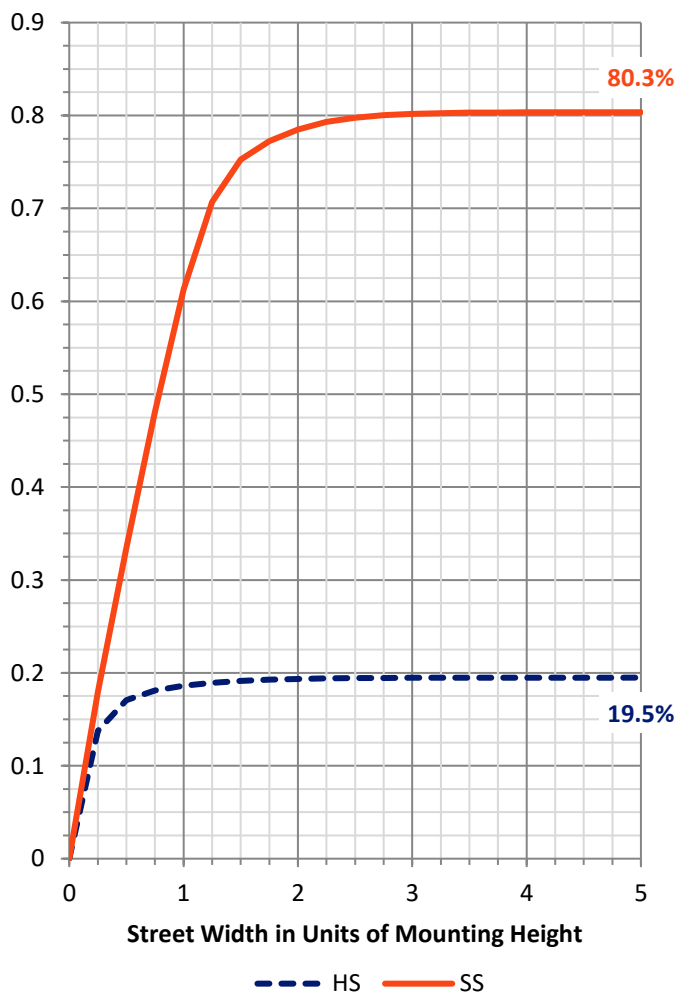
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5179.4	0.0	5179.4
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	21105.9	0.0	21105.9
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	26285.3	0.0	26285.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	809.9	3.1
10°-20°	1993.1	7.6
20°-30°	2811.3	10.7
30°-40°	4160.1	15.8
40°-50°	6001.7	22.8
50°-60°	7079.5	26.9
60°-70°	3158.0	12.0
70°-80°	271.5	1.0
80°-90°	0.1	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°	26285.3	100.0
0°-180°	26285.3	100.0

**Coefficient of Utilization**



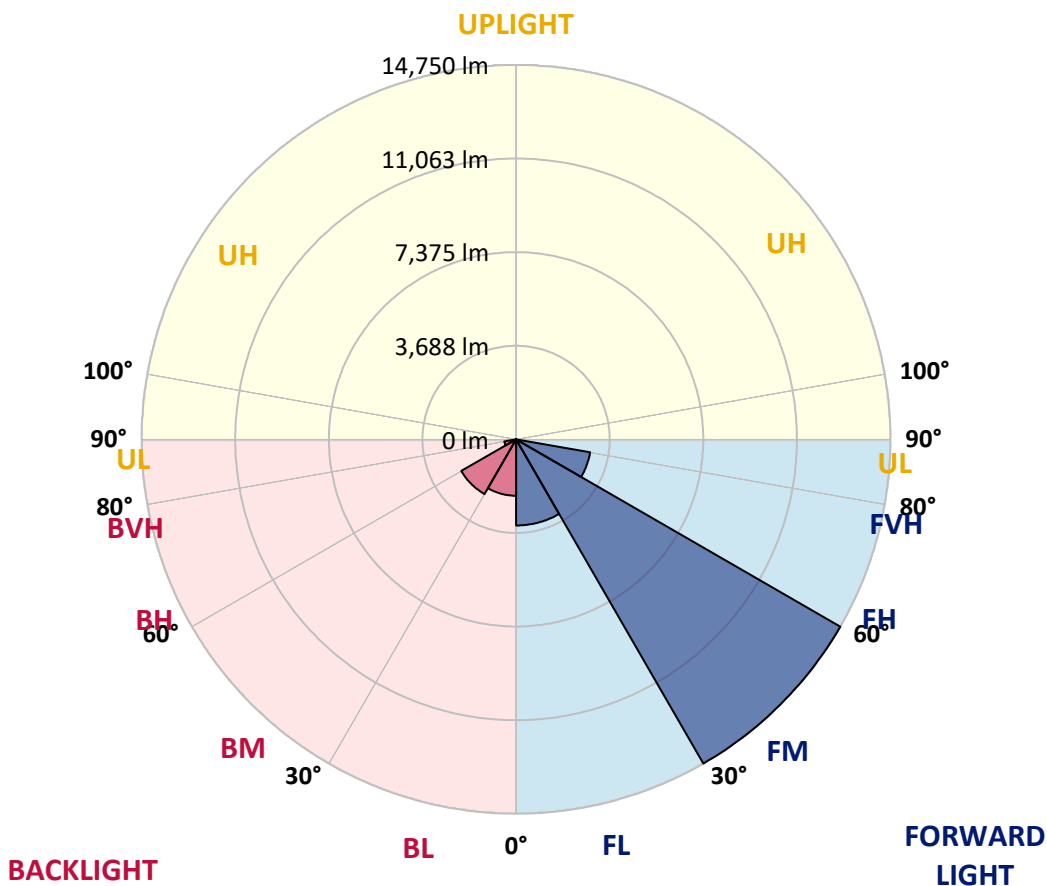
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3393.5	12.9			
FM (30°-60°)	14750.4	56.1			
FH (60°-80°)	2961.9	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	2220.7	8.4	B3/2500		
BM (30°-60°)	2490.9	9.5	B2/2500		
BH (60°-80°)	467.7	1.8	B1/500		G1/500
BVH (80°-90°)	0.1	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	9222.3	9222.3	9222.3	9222.3	9222.3	9222.3	9222.3	9222.3	9222.3	9222.3	9222.3
2.5°	8567.7	8574.1	8577.4	8664.0	8696.1	8824.4	8891.8	8927.1	9020.2	9129.3	9219.1
5°	7993.3	7983.7	7999.8	8108.9	8179.5	8368.8	8471.5	8542.1	8747.4	9004.1	9219.1
7.5°	7492.8	7512.0	7531.3	7650.0	7755.9	7961.3	8108.9	8214.8	8500.3	8882.2	9244.8
10°	7139.8	7139.8	7168.7	7303.4	7428.6	7682.1	7829.7	7964.5	8304.6	8773.1	9273.7
12.5°	6879.9	6883.1	6918.4	7072.4	7216.8	7479.9	7633.9	7765.5	8140.9	8664.0	9280.1
15°	6757.9	6748.3	6777.2	6940.8	7101.3	7348.4	7508.8	7637.2	8025.4	8603.0	9312.2
17.5°	6725.8	6719.4	6741.9	6902.3	7066.0	7306.6	7463.9	7592.2	8009.4	8622.3	9408.5
20°	6818.9	6806.1	6796.4	6934.4	7088.4	7325.9	7489.5	7633.9	8086.4	8728.2	9556.1
22.5°	7040.3	7040.3	7017.8	7085.2	7187.9	7402.9	7573.0	7762.3	8288.6	8940.0	9774.3
25°	7447.8	7415.7	7374.0	7402.9	7390.1	7524.8	7727.0	7990.1	8670.4	9289.7	10040.6
27.5°	7913.1	7942.0	7871.4	7874.6	7762.3	7714.2	7948.4	8346.3	9238.4	9783.9	10435.3
30°	8545.3	8522.8	8526.0	8516.4	8256.5	8028.6	8282.1	8811.6	9954.0	10538.0	10948.7
32.5°	9039.4	9071.5	9177.4	9238.4	8898.2	8532.4	8802.0	9443.8	10769.0	11398.0	11577.7
35°	9562.5	9620.2	9835.2	10034.2	9748.6	9328.2	9617.0	10281.3	11536.0	12248.3	12299.7
37.5°	10114.4	10229.9	10486.6	10836.4	10791.5	10419.3	10682.4	11266.4	12139.2	12761.7	12896.5
40°	10746.6	10858.9	11279.2	11783.0	11888.9	11805.5	11892.1	12232.3	12537.1	12784.2	13153.2
42.5°	11439.7	11593.7	12126.4	12800.3	13198.2	13272.0	13069.8	13034.5	12710.4	12527.5	13098.7
45°	12258.0	12437.7	13040.9	13913.7	14545.9	14645.4	14295.6	13843.1	12819.5	12338.2	12935.0
47.5°	13175.7	13345.8	13945.8	14995.1	15935.3	15973.8	15364.2	14635.7	13143.6	12556.4	13060.2
50°	13483.7	13589.6	14109.5	15341.7	17074.5	17369.7	16487.3	15527.8	13795.0	13198.2	13669.9
52.5°	12424.8	12466.5	12919.0	14164.0	16843.5	18739.9	18127.0	16859.5	14953.4	14176.9	14610.1
55°	9844.9	9777.5	10143.3	11285.7	14638.9	18460.7	19612.7	18951.7	16445.6	15325.7	15832.7
57.5°	6886.3	6806.1	6722.6	7496.0	10923.1	15649.7	18072.5	19243.7	17867.1	16464.8	17151.5
60°	5660.5	5583.5	5179.1	4823.0	6603.9	11237.5	13881.7	16086.2	17751.6	16407.0	17109.8
62.5°	4890.3	4845.4	4681.8	4197.2	3886.0	6414.6	8692.9	10804.3	13621.7	12883.7	12922.2
65°	3841.0	3828.2	3940.5	3991.9	3436.7	3549.0	4434.7	5615.6	7364.4	6944.0	6584.6
67.5°	2624.9	2596.0	2807.8	3452.8	3305.2	2801.4	2596.0	2618.5	3186.4	1947.8	1546.7
70°	1668.6	1601.2	1604.4	2140.3	2689.0	2210.9	2002.3	1761.7	1585.2	288.8	327.3
72.5°	1068.6	1026.8	882.4	965.9	1245.0	1078.2	1087.8	937.0	625.7	154.0	179.7
75°	449.2	413.9	317.7	253.5	250.3	157.2	138.0	128.4	86.6	86.6	93.1
77.5°	3.2	0.0	0.0	3.2	6.4	3.2	3.2	6.4	12.8	19.3	22.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9222.3	9222.3	9222.3	9222.3	9222.3	9222.3	9222.3	9222.3	9222.3	9222.3	9222.3
2.5°	9273.7	9196.7	9283.3	9315.4	9312.2	9315.4	9222.3	9158.2	9155.0	9074.7	9036.2
5°	9309.0	9248.0	9312.2	9270.5	9171.0	9045.9	8879.0	8734.6	8670.4	8577.4	8532.4
7.5°	9376.4	9312.2	9302.6	9135.7	8888.6	8625.5	8330.3	8067.1	7926.0	7755.9	7765.5
10°	9424.5	9350.7	9225.6	8885.4	8474.7	8054.3	7614.7	7223.2	6976.1	6748.3	6709.8
12.5°	9443.8	9334.7	9042.6	8529.2	7951.6	7402.9	6757.9	6199.6	5814.5	5516.1	5474.4
15°	9479.1	9302.6	8808.4	8099.2	7306.6	6530.1	5708.6	4944.9	4434.7	4091.3	4120.2
17.5°	9533.6	9267.3	8545.3	7617.9	6613.5	5516.1	4405.8	3529.8	3061.3	2862.3	2865.5
20°	9610.6	9225.6	8256.5	7088.4	5782.4	4370.5	3080.5	2419.5	2287.9	2281.5	2271.9
22.5°	9713.3	9183.8	7948.4	6507.6	4797.3	3061.3	2050.5	1845.1	1899.7	2005.6	2024.8
25°	9835.2	9132.5	7605.1	5853.0	3722.3	2008.8	1537.1	1505.0	1636.5	1777.7	1809.8
27.5°	10024.6	9106.8	7213.6	5108.6	2612.0	1440.8	1257.9	1277.1	1395.9	1514.6	1543.5
30°	10345.5	9155.0	6786.8	4274.2	1678.2	1148.8	1091.0	1119.9	1184.1	1245.0	1270.7
32.5°	10781.9	9296.1	6372.9	3362.9	1196.9	998.0	985.1	1001.2	1026.8	1062.1	1071.8
35°	11292.1	9540.0	5946.1	2406.7	988.3	911.3	898.5	898.5	911.3	917.7	921.0
37.5°	11712.4	9796.7	5545.0	1601.2	885.7	843.9	824.7	815.1	811.8	818.3	821.5
40°	11895.3	9902.6	5108.6	1164.8	811.8	783.0	754.1	725.2	725.2	747.7	750.9
42.5°	11767.0	9783.9	4604.8	962.7	760.5	718.8	673.9	648.2	661.0	683.5	689.9
45°	11494.2	9491.9	4049.6	850.4	709.2	654.6	603.3	587.2	600.1	628.9	635.4
47.5°	11449.3	9299.4	3385.4	776.6	654.6	600.1	545.5	529.5	545.5	568.0	574.4
50°	11895.3	9466.2	2647.3	712.4	603.3	542.3	497.4	481.3	491.0	503.8	510.2
52.5°	12710.4	10085.5	2137.1	651.4	542.3	484.5	455.7	436.4	436.4	449.2	452.5
55°	13913.7	11166.9	1845.1	580.8	471.7	439.6	413.9	394.7	394.7	401.1	404.3
57.5°	15300.0	12476.2	1912.5	487.8	413.9	397.9	375.4	359.4	365.8	365.8	365.8
60°	15107.4	12379.9	2047.3	410.7	365.8	359.4	340.1	333.7	349.8	336.9	330.5
62.5°	11128.4	8551.7	1071.8	336.9	314.5	308.1	295.2	308.1	330.5	295.2	282.4
65°	5403.8	4139.5	430.0	276.0	266.3	259.9	253.5	272.8	285.6	231.0	218.2
67.5°	1270.7	1033.3	279.2	234.2	221.4	208.6	215.0	218.2	208.6	157.2	150.8
70°	330.5	324.1	218.2	195.7	176.5	163.7	163.7	160.4	138.0	99.5	93.1
72.5°	179.7	176.5	157.2	147.6	121.9	109.1	112.3	99.5	77.0	57.8	54.6
75°	89.8	96.3	89.8	83.4	67.4	61.0	61.0	54.6	38.5	22.5	22.5
77.5°	19.3	22.5	22.5	19.3	16.0	12.8	12.8	16.0	6.4	0.0	0.0
80°	3.2	3.2	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)