

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: P638689

Luminaire Tested: GWS-SA4F-735-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638689  
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-SA4F-735-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

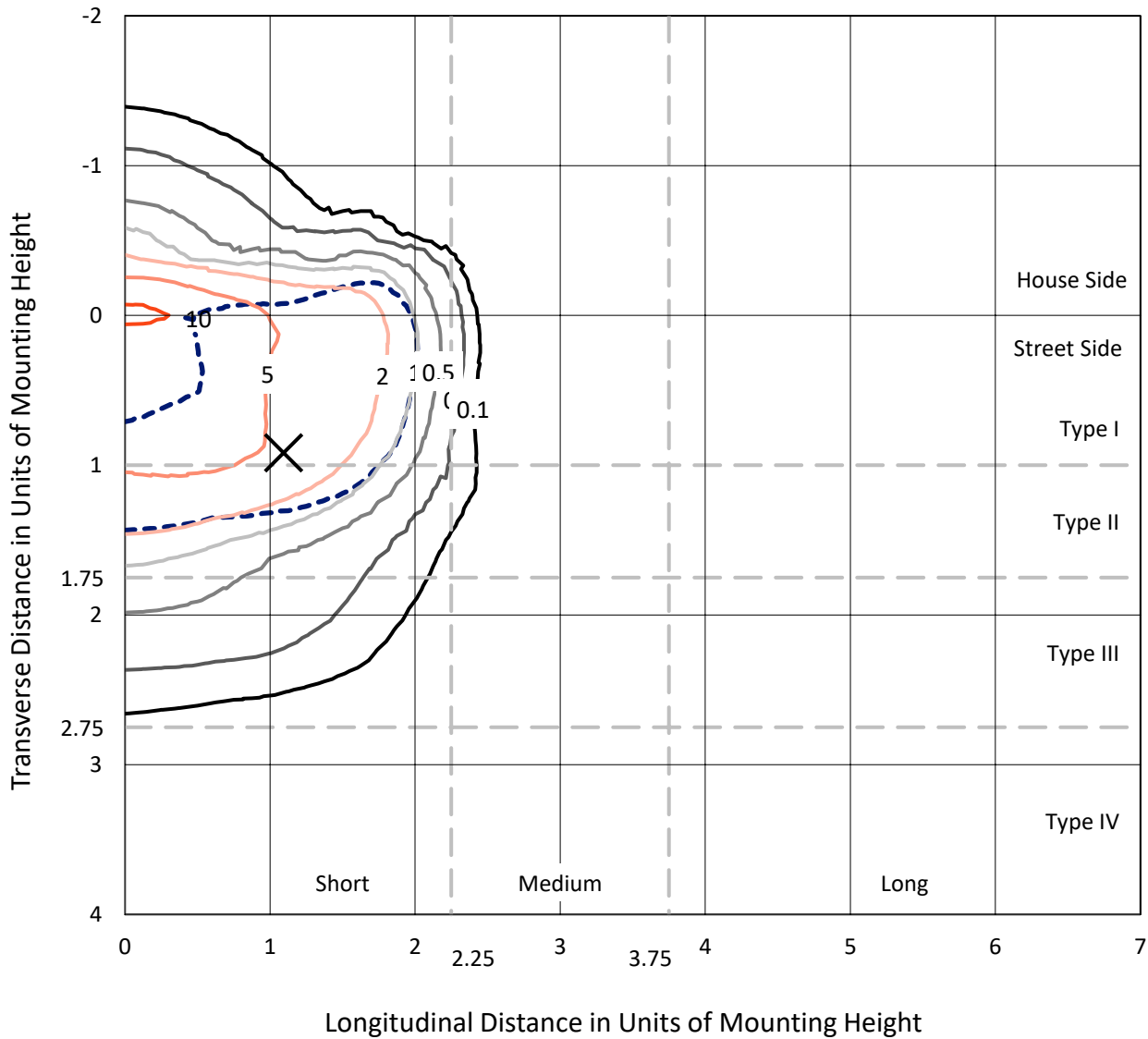
Lumens per Lamp: N/A  
Luminaire Lumens: 19705 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

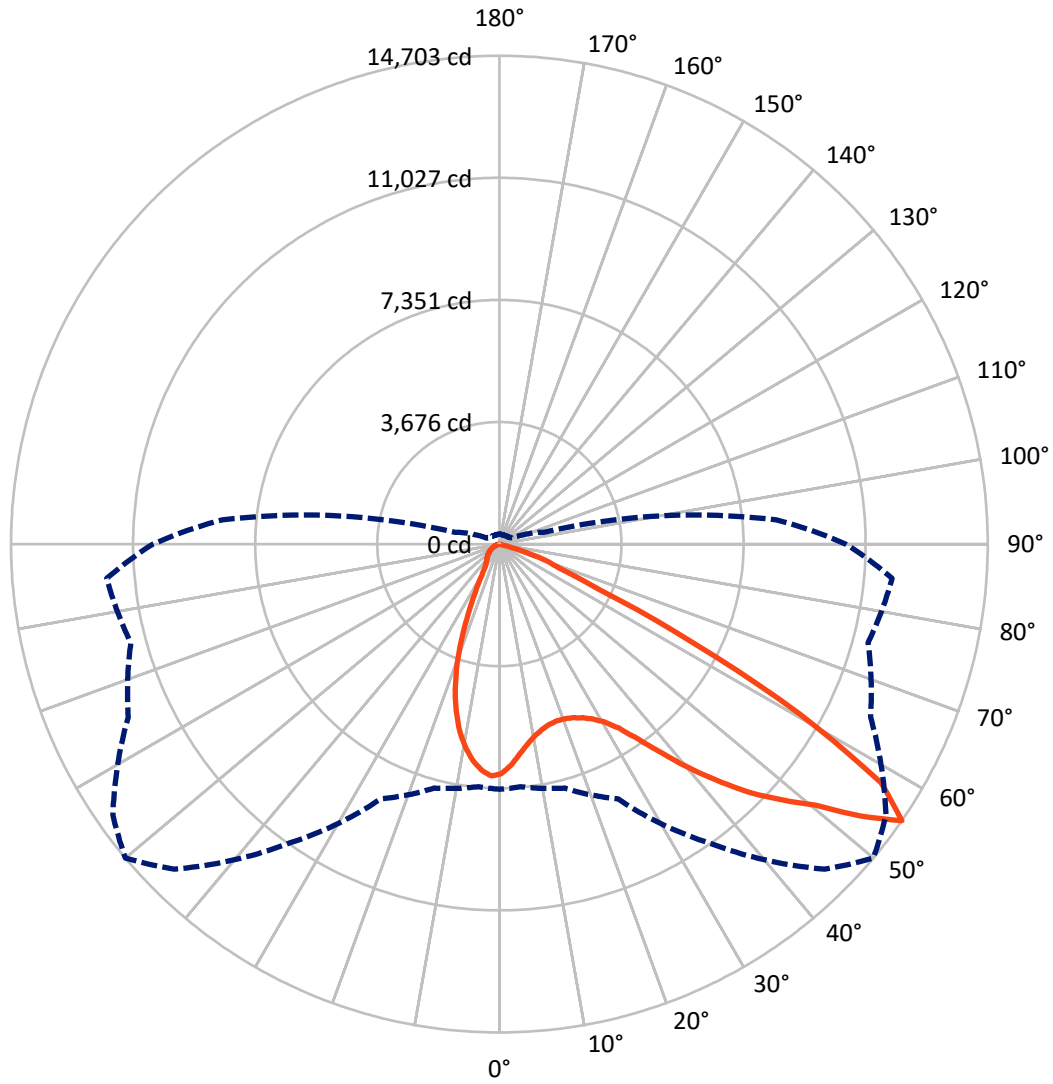
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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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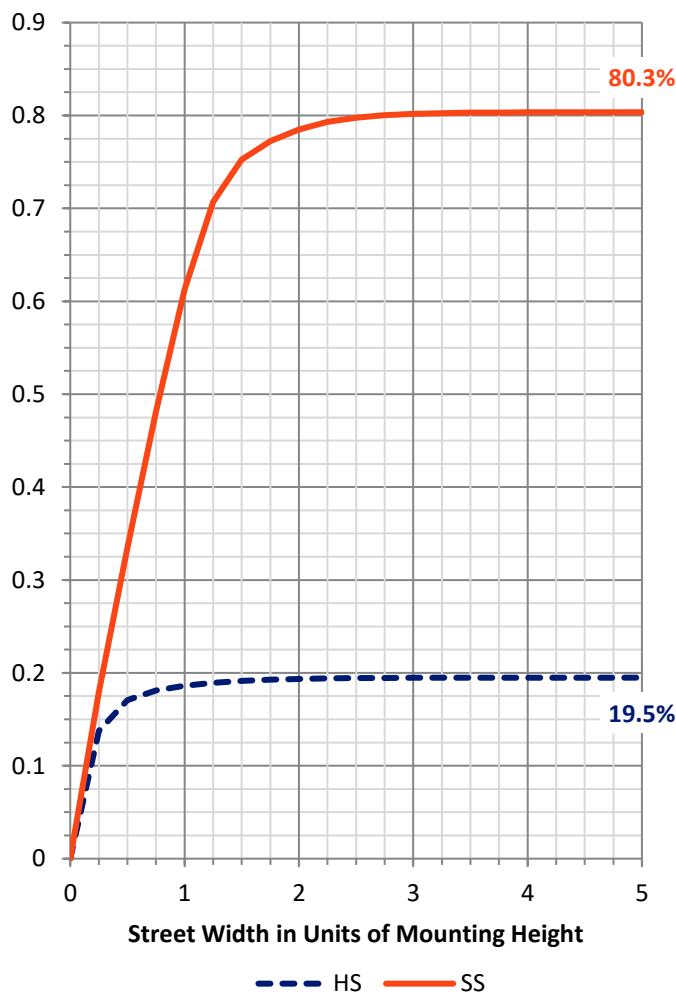
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3882.8	0.0	3882.8
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	15822.2	0.0	15822.2
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	19705.0	0.0	19705.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	607.2	3.1
10°-20°	1494.1	7.6
20°-30°	2107.5	10.7
30°-40°	3118.7	15.8
40°-50°	4499.3	22.8
50°-60°	5307.2	26.9
60°-70°	2367.5	12.0
70°-80°	203.5	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°	19705.0	100.0
0°-180°	19705.0	100.0

**Coefficient of Utilization**



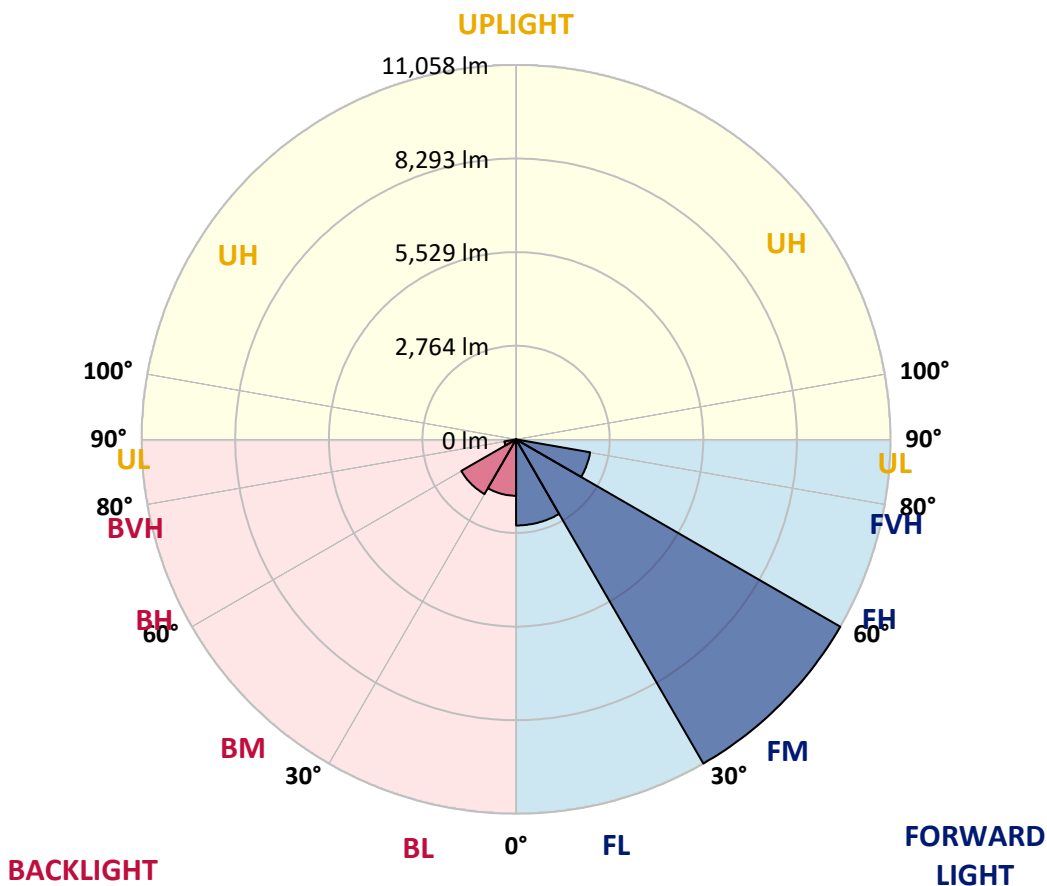
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2544.0	12.9			
FM (30°-60°)	11057.8	56.1			
FH (60°-80°)	2220.4	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1664.8	8.4	B3/2500		
BM (30°-60°)	1867.3	9.5	B2/2500		
BH (60°-80°)	350.6	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°	6913.6	6913.6	6913.6	6913.6	6913.6	6913.6	6913.6	6913.6	6913.6	6913.6	6913.6
2.5°	6422.9	6427.7	6430.1	6495.0	6519.1	6615.3	6665.8	6692.3	6762.1	6843.8	6911.2
5°	5992.3	5985.1	5997.1	6078.9	6131.8	6273.7	6350.7	6403.6	6557.6	6750.0	6911.2
7.5°	5617.0	5631.4	5645.9	5734.9	5814.3	5968.2	6078.9	6158.3	6372.4	6658.6	6930.4
10°	5352.4	5352.4	5374.0	5475.1	5568.9	5758.9	5869.6	5970.6	6225.6	6576.8	6952.1
12.5°	5157.5	5159.9	5186.4	5301.9	5410.1	5607.4	5722.9	5821.5	6102.9	6495.0	6956.9
15°	5066.1	5058.9	5080.6	5203.2	5323.5	5508.8	5629.0	5725.3	6016.3	6449.3	6981.0
17.5°	5042.1	5037.3	5054.1	5174.4	5297.1	5477.5	5595.4	5691.6	6004.3	6463.8	7053.1
20°	5111.8	5102.2	5095.0	5198.4	5313.9	5491.9	5614.6	5722.9	6062.0	6543.2	7163.8
22.5°	5277.8	5277.8	5261.0	5311.5	5388.5	5549.7	5677.1	5819.1	6213.6	6701.9	7327.4
25°	5583.3	5559.3	5528.0	5549.7	5540.0	5641.1	5792.6	5989.9	6499.9	6964.1	7527.0
27.5°	5932.1	5953.8	5900.9	5903.3	5819.1	5783.0	5958.6	6256.9	6925.6	7334.6	7822.9
30°	6406.0	6389.2	6391.6	6384.4	6189.5	6018.7	6208.8	6605.7	7462.1	7899.9	8207.8
32.5°	6776.5	6800.5	6879.9	6925.6	6670.6	6396.4	6598.5	7079.6	8073.1	8544.6	8679.3
35°	7168.6	7211.9	7373.1	7522.2	7308.1	6993.0	7209.5	7707.4	8648.0	9182.1	9220.6
37.5°	7582.4	7669.0	7861.4	8123.6	8089.9	7810.9	8008.1	8446.0	9100.3	9567.0	9668.0
40°	8056.3	8140.5	8455.6	8833.3	8912.6	8850.1	8915.0	9170.0	9398.6	9583.8	9860.4
42.5°	8575.9	8691.3	9090.7	9595.8	9894.1	9949.4	9797.9	9771.4	9528.5	9391.3	9819.5
45°	9189.3	9324.0	9776.2	10430.6	10904.5	10979.0	10716.8	10377.6	9610.3	9249.4	9696.9
47.5°	9877.3	10004.8	10454.6	11241.2	11946.1	11974.9	11517.9	10971.8	9853.2	9413.0	9790.7
50°	10108.2	10187.6	10577.3	11501.0	12800.0	13021.4	12359.8	11640.6	10341.5	9894.1	10247.7
52.5°	9314.4	9345.6	9684.8	10618.2	12626.8	14048.5	13589.1	12638.9	11210.0	10627.8	10952.6
55°	7380.3	7329.8	7604.0	8460.4	10974.2	13839.2	14702.8	14207.3	12328.5	11489.0	11869.1
57.5°	5162.4	5102.2	5039.7	5619.4	8188.6	11732.0	13548.2	14426.2	13394.2	12343.0	12857.8
60°	4243.4	4185.7	3882.6	3615.6	4950.7	8424.3	10406.5	12059.1	13307.6	12299.7	12826.5
62.5°	3666.1	3632.4	3509.7	3146.5	2913.1	4808.7	6516.7	8099.6	10211.6	9658.4	9687.2
65°	2879.5	2869.8	2954.0	2992.5	2576.4	2660.6	3324.5	4209.7	5520.8	5205.7	4936.2
67.5°	1967.8	1946.1	2104.9	2588.4	2477.7	2100.1	1946.1	1962.9	2388.7	1460.2	1159.5
70°	1250.9	1200.4	1202.8	1604.5	2015.9	1657.4	1501.1	1320.7	1188.4	216.5	245.4
72.5°	801.1	769.8	661.5	724.1	933.4	808.3	815.5	702.4	469.1	115.5	134.7
75°	336.8	310.3	238.2	190.0	187.6	117.9	103.4	96.2	65.0	65.0	69.8
77.5°	2.4	0.0	0.0	2.4	4.8	2.4	2.4	4.8	9.6	14.4	16.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
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°	6913.6	6913.6	6913.6	6913.6	6913.6	6913.6	6913.6	6913.6	6913.6	6913.6	6913.6
2.5°	6952.1	6894.4	6959.3	6983.4	6981.0	6983.4	6913.6	6865.5	6863.1	6803.0	6774.1
5°	6978.6	6932.9	6981.0	6949.7	6875.1	6781.3	6656.2	6548.0	6499.9	6430.1	6396.4
7.5°	7029.1	6981.0	6973.7	6848.7	6663.4	6466.2	6244.9	6047.6	5941.8	5814.3	5821.5
10°	7065.2	7009.8	6916.0	6661.0	6353.1	6038.0	5708.4	5414.9	5229.7	5058.9	5030.0
12.5°	7079.6	6997.8	6778.9	6394.0	5961.0	5549.7	5066.1	4647.6	4358.9	4135.2	4103.9
15°	7106.1	6973.7	6603.3	6071.7	5477.5	4895.3	4279.5	3707.0	3324.5	3067.1	3088.8
17.5°	7146.9	6947.3	6406.0	5710.8	4957.9	4135.2	3302.8	2646.1	2294.9	2145.8	2148.2
20°	7204.7	6916.0	6189.5	5313.9	4334.8	3276.4	2309.3	1813.8	1715.2	1710.4	1703.1
22.5°	7281.7	6884.7	5958.6	4878.5	3596.3	2294.9	1537.2	1383.2	1424.1	1503.5	1517.9
25°	7373.1	6846.3	5701.2	4387.8	2790.5	1505.9	1152.3	1128.2	1226.8	1332.7	1356.7
27.5°	7515.0	6827.0	5407.7	3829.7	1958.1	1080.1	943.0	957.4	1046.4	1135.4	1157.1
30°	7755.6	6863.1	5087.8	3204.2	1258.1	861.2	817.9	839.5	887.7	933.4	952.6
32.5°	8082.7	6968.9	4777.5	2521.0	897.3	748.1	738.5	750.5	769.8	796.2	803.5
35°	8465.2	7151.8	4457.5	1804.2	740.9	683.2	673.6	673.6	683.2	688.0	690.4
37.5°	8780.3	7344.2	4156.8	1200.4	663.9	632.7	618.2	611.0	608.6	613.4	615.8
40°	8917.4	7423.6	3829.7	873.2	608.6	587.0	565.3	543.7	543.7	560.5	562.9
42.5°	8821.2	7334.6	3452.0	721.7	570.1	538.8	505.2	485.9	495.5	512.4	517.2
45°	8616.8	7115.7	3035.8	637.5	531.6	490.7	452.2	440.2	449.8	471.5	476.3
47.5°	8583.1	6971.3	2537.9	582.1	490.7	449.8	408.9	396.9	408.9	425.8	430.6
50°	8917.4	7096.4	1984.6	534.0	452.2	406.5	372.9	360.8	368.1	377.7	382.5
52.5°	9528.5	7560.7	1602.1	488.3	406.5	363.2	341.6	327.2	327.2	336.8	339.2
55°	10430.6	8371.4	1383.2	435.4	353.6	329.6	310.3	295.9	295.9	300.7	303.1
57.5°	11469.8	9352.9	1433.7	365.6	310.3	298.3	281.5	269.4	274.2	274.2	274.2
60°	11325.4	9280.7	1534.8	307.9	274.2	269.4	255.0	250.2	262.2	252.6	247.8
62.5°	8342.5	6410.8	803.5	252.6	235.7	230.9	221.3	230.9	247.8	221.3	211.7
65°	4051.0	3103.2	322.3	206.9	199.7	194.9	190.0	204.5	214.1	173.2	163.6
67.5°	952.6	774.6	209.3	175.6	166.0	156.4	161.2	163.6	156.4	117.9	113.1
70°	247.8	243.0	163.6	146.7	132.3	122.7	122.7	120.3	103.4	74.6	69.8
72.5°	134.7	132.3	117.9	110.7	91.4	81.8	84.2	74.6	57.7	43.3	40.9
75°	67.4	72.2	67.4	62.5	50.5	45.7	45.7	40.9	28.9	16.8	16.8
77.5°	14.4	16.8	16.8	14.4	12.0	9.6	9.6	12.0	4.8	0.0	0.0
80°	2.4	2.4	2.4	2.4	2.4	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)