

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: P640724

Luminaire Tested: GWS-SA5E-740-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640724  
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-SA5E-740-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

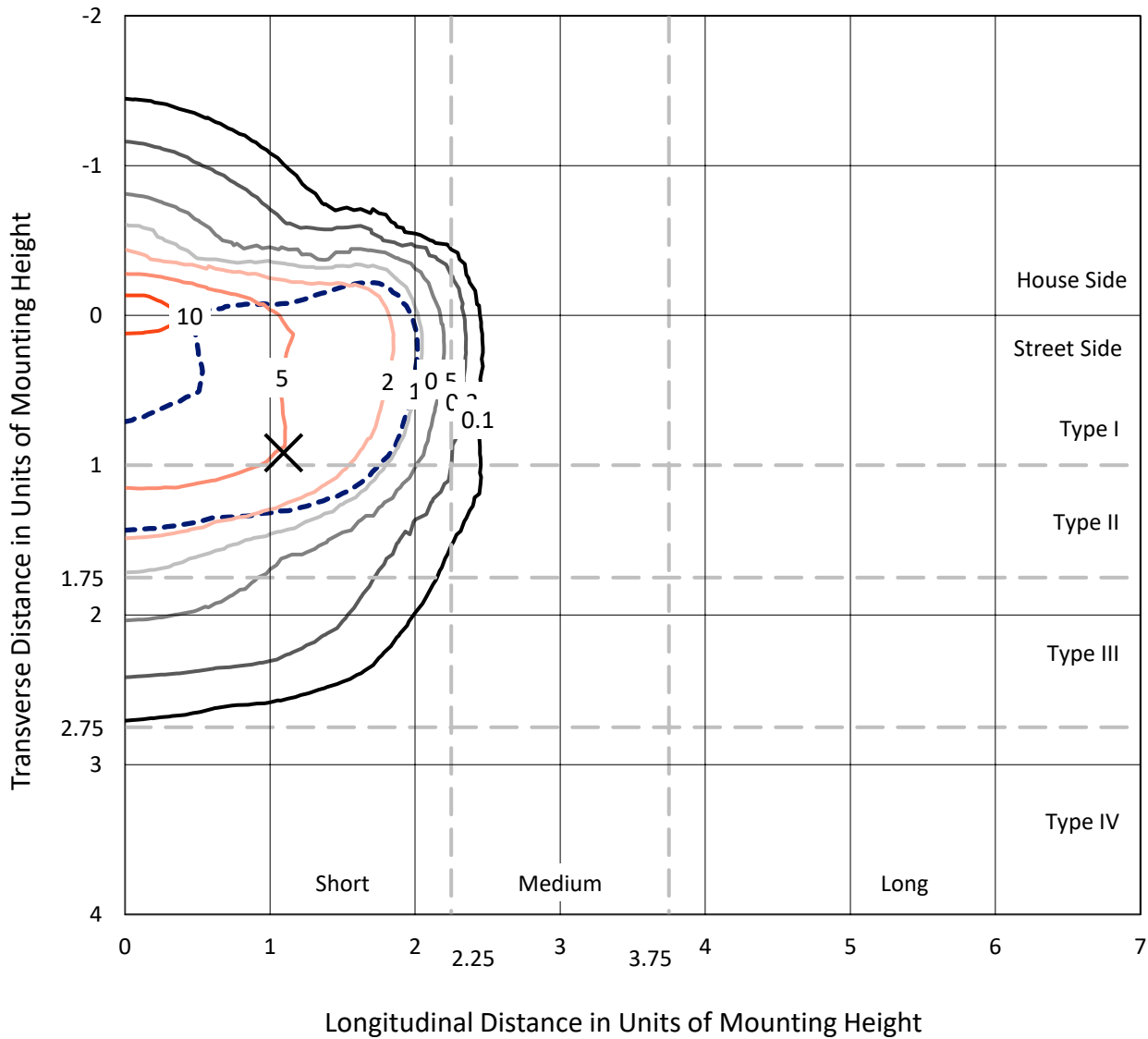
Lumens per Lamp: N/A  
Luminaire Lumens: 22043.5 lumens  
Efficiency: N/A  
Efficacy: 81.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

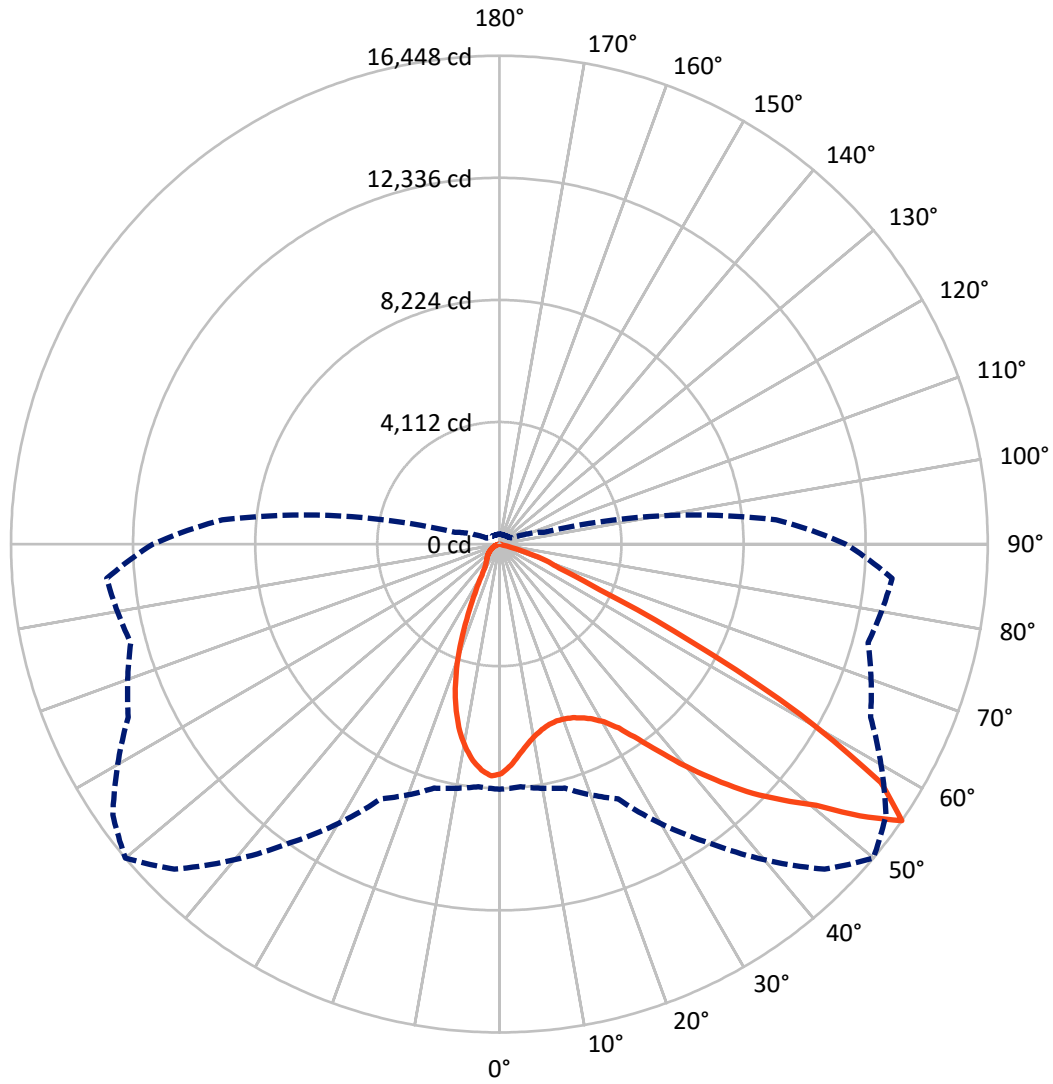
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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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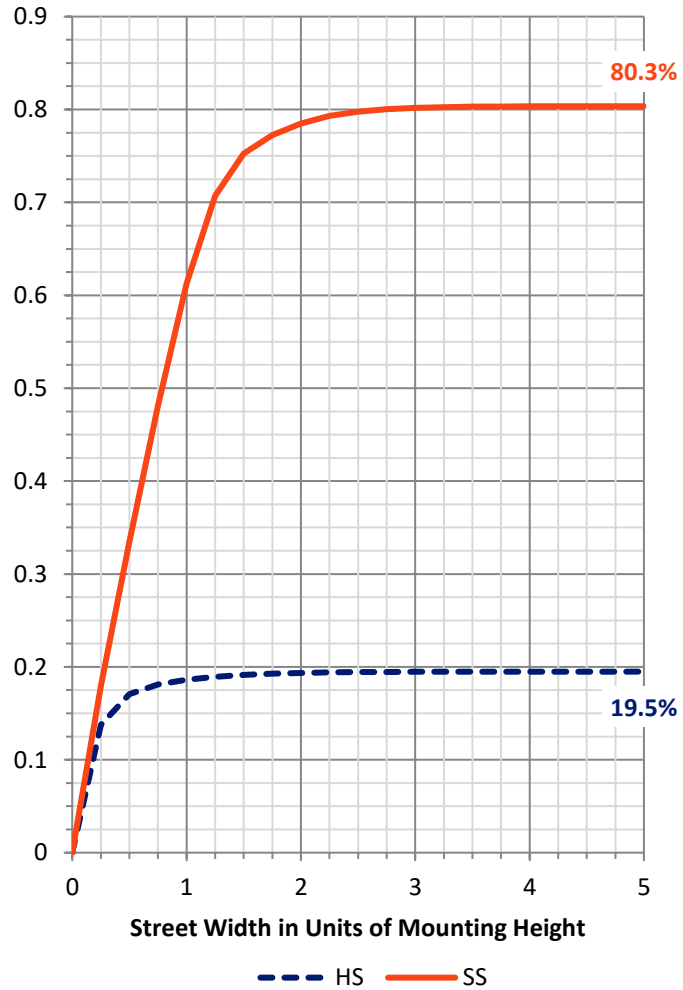
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4343.6	0.0	4343.6
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	17699.9	0.0	17699.9
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	22043.5	0.0	22043.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	679.2	3.1
10°-20°	1671.4	7.6
20°-30°	2357.6	10.7
30°-40°	3488.8	15.8
40°-50°	5033.2	22.8
50°-60°	5937.0	26.9
60°-70°	2648.4	12.0
70°-80°	227.7	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°	22043.5	100.0
0°-180°	22043.5	100.0

**Coefficient of Utilization**



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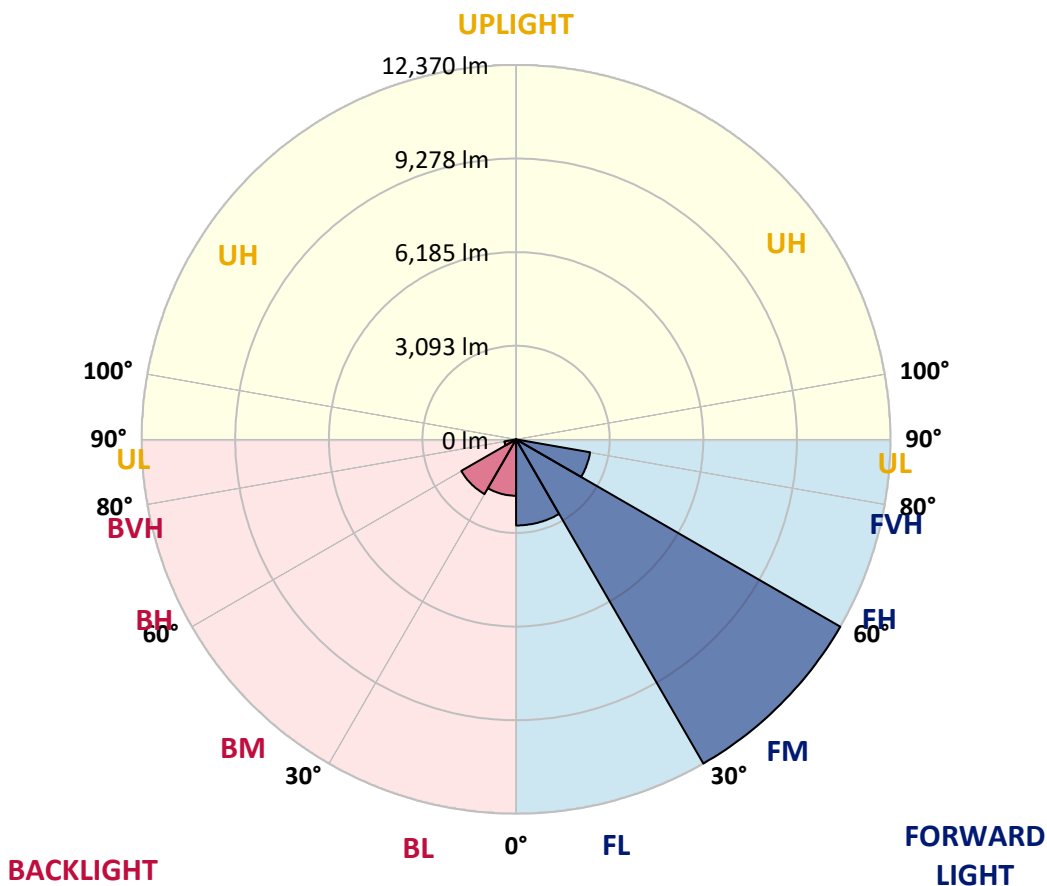
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2845.9	12.9			
FM (30°-60°)	12370.1	56.1			
FH (60°-80°)	2483.9	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1862.4	8.4	B3/2500		
BM (30°-60°)	2089.0	9.5	B2/2500		
BH (60°-80°)	392.2	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°	7734.1	7734.1	7734.1	7734.1	7734.1	7734.1	7734.1	7734.1	7734.1	7734.1	7734.1
2.5°	7185.1	7190.5	7193.2	7265.8	7292.8	7400.4	7456.9	7486.5	7564.5	7656.0	7731.4
5°	6703.4	6695.3	6708.8	6800.3	6859.5	7018.3	7104.4	7163.6	7335.8	7551.1	7731.4
7.5°	6283.6	6299.8	6315.9	6415.5	6504.3	6676.5	6800.3	6889.1	7128.6	7448.8	7752.9
10°	5987.6	5987.6	6011.8	6124.8	6229.8	6442.4	6566.2	6679.2	6964.4	7357.3	7777.1
12.5°	5769.6	5772.3	5801.9	5931.1	6052.2	6272.8	6402.0	6512.3	6827.2	7265.8	7782.5
15°	5667.4	5659.3	5683.5	5820.7	5955.3	6162.5	6297.1	6404.7	6730.3	7214.7	7809.4
17.5°	5640.4	5635.1	5653.9	5788.5	5925.7	6127.5	6259.4	6367.0	6716.9	7230.9	7890.2
20°	5718.5	5707.7	5699.6	5815.4	5944.5	6143.7	6280.9	6402.0	6781.5	7319.7	8014.0
22.5°	5904.2	5904.2	5885.3	5941.8	6028.0	6208.3	6350.9	6509.7	6951.0	7497.3	8196.9
25°	6245.9	6219.0	6184.0	6208.3	6197.5	6310.5	6480.1	6700.7	7271.2	7790.6	8420.3
27.5°	6636.1	6660.4	6601.2	6603.8	6509.7	6469.3	6665.7	6999.4	7747.5	8205.0	8751.3
30°	7166.3	7147.4	7150.1	7142.1	6924.1	6733.0	6945.6	7389.6	8347.6	8837.4	9181.9
32.5°	7580.7	7607.6	7696.4	7747.5	7462.3	7155.5	7381.6	7919.8	9031.2	9558.6	9709.3
35°	8019.3	8067.8	8248.1	8414.9	8175.4	7822.9	8065.1	8622.1	9674.3	10271.7	10314.8
37.5°	8482.2	8579.1	8794.4	9087.7	9050.0	8737.8	8958.5	9448.3	10180.3	10702.3	10815.3
40°	9012.3	9106.5	9459.1	9881.5	9970.4	9900.4	9973.0	10258.3	10513.9	10721.2	11030.6
42.5°	9593.6	9722.8	10169.5	10734.6	11068.3	11130.2	10960.7	10931.1	10659.3	10505.9	10984.9
45°	10279.8	10430.5	10936.4	11668.4	12198.5	12282.0	11988.6	11609.2	10750.8	10347.1	10847.6
47.5°	11049.5	11192.1	11695.3	12575.3	13363.8	13396.1	12884.8	12273.9	11022.6	10530.1	10952.6
50°	11307.8	11396.6	11832.6	12865.9	14319.1	14566.7	13826.6	13022.0	11568.8	11068.3	11463.9
52.5°	10419.8	10454.7	10834.2	11878.3	14125.3	15715.7	15201.8	14138.8	12540.3	11889.1	12252.4
55°	8256.1	8199.6	8506.4	9464.4	12276.6	15481.6	16447.7	15893.4	13791.6	12852.5	13277.7
57.5°	5775.0	5707.7	5637.8	6286.3	9160.3	13124.3	15156.0	16138.2	14983.8	13807.8	14383.7
60°	4747.0	4682.4	4343.4	4044.7	5538.2	9424.1	11641.5	13490.2	14886.9	13759.4	14348.7
62.5°	4101.2	4063.5	3926.2	3519.9	3258.9	5379.4	7290.1	9060.8	11423.5	10804.6	10836.9
65°	3221.2	3210.4	3304.6	3347.7	2882.1	2976.3	3719.0	4709.3	6176.0	5823.4	5522.0
67.5°	2201.3	2177.1	2354.7	2895.6	2771.8	2349.3	2177.1	2195.9	2672.2	1633.5	1297.1
70°	1399.3	1342.8	1345.5	1794.9	2255.1	1854.1	1679.2	1477.4	1329.4	242.2	274.5
72.5°	896.1	861.1	740.0	810.0	1044.1	904.2	912.3	785.8	524.8	129.2	150.7
75°	376.7	347.1	266.4	212.6	209.9	131.9	115.7	107.6	72.7	72.7	78.0
77.5°	2.7	0.0	0.0	2.7	5.4	2.7	2.7	5.4	10.8	16.1	18.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
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°	7734.1	7734.1	7734.1	7734.1	7734.1	7734.1	7734.1	7734.1	7734.1	7734.1	7734.1
2.5°	7777.1	7712.6	7785.2	7812.1	7809.4	7812.1	7734.1	7680.3	7677.6	7610.3	7578.0
5°	7806.7	7755.6	7809.4	7774.5	7691.0	7586.1	7446.1	7325.0	7271.2	7193.2	7155.5
7.5°	7863.3	7809.4	7801.4	7661.4	7454.2	7233.5	6986.0	6765.3	6646.9	6504.3	6512.3
10°	7903.6	7841.7	7736.8	7451.5	7107.1	6754.5	6385.9	6057.6	5850.3	5659.3	5627.0
12.5°	7919.8	7828.3	7583.4	7152.8	6668.4	6208.3	5667.4	5199.1	4876.2	4625.9	4590.9
15°	7949.4	7801.4	7386.9	6792.2	6127.5	5476.3	4787.4	4146.9	3719.0	3431.1	3455.3
17.5°	7995.1	7771.8	7166.3	6388.6	5546.3	4625.9	3694.8	2960.2	2567.3	2400.4	2403.1
20°	8059.7	7736.8	6924.1	5944.5	4849.3	3665.2	2583.4	2029.1	1918.7	1913.3	1905.3
22.5°	8145.8	7701.8	6665.7	5457.5	4023.1	2567.3	1719.6	1547.4	1593.1	1681.9	1698.1
25°	8248.1	7658.7	6377.8	4908.5	3121.6	1684.6	1289.0	1262.1	1372.4	1490.8	1517.8
27.5°	8406.8	7637.2	6049.5	4284.2	2190.5	1208.3	1054.9	1071.0	1170.6	1270.2	1294.4
30°	8676.0	7677.6	5691.6	3584.5	1407.4	963.4	915.0	939.2	993.0	1044.1	1065.7
32.5°	9041.9	7796.0	5344.4	2820.2	1003.8	836.9	826.2	839.6	861.1	890.7	898.8
35°	9469.8	8000.5	4986.5	2018.3	828.8	764.3	753.5	753.5	764.3	769.6	772.3
37.5°	9822.3	8215.8	4650.1	1342.8	742.7	707.7	691.6	683.5	680.8	686.2	688.9
40°	9975.7	8304.6	4284.2	976.9	680.8	656.6	632.4	608.2	608.2	627.0	629.7
42.5°	9868.1	8205.0	3861.7	807.3	637.8	602.8	565.1	543.6	554.4	573.2	578.6
45°	9639.4	7960.1	3396.1	713.1	594.7	549.0	505.9	492.5	503.2	527.4	532.8
47.5°	9601.7	7798.7	2839.1	651.2	549.0	503.2	457.5	444.0	457.5	476.3	481.7
50°	9975.7	7938.6	2220.1	597.4	505.9	454.8	417.1	403.7	411.7	422.5	427.9
52.5°	10659.3	8458.0	1792.2	546.3	454.8	406.3	382.1	366.0	366.0	376.7	379.4
55°	11668.4	9364.9	1547.4	487.1	395.6	368.7	347.1	331.0	331.0	336.4	339.1
57.5°	12830.9	10462.8	1603.9	409.0	347.1	333.7	314.9	301.4	306.8	306.8	306.8
60°	12669.5	10382.1	1716.9	344.5	306.8	301.4	285.3	279.9	293.3	282.6	277.2
62.5°	9332.6	7171.7	898.8	282.6	263.7	258.3	247.6	258.3	277.2	247.6	236.8
65°	4531.7	3471.5	360.6	231.4	223.4	218.0	212.6	228.7	239.5	193.8	183.0
67.5°	1065.7	866.5	234.1	196.4	185.7	174.9	180.3	183.0	174.9	131.9	126.5
70°	277.2	271.8	183.0	164.2	148.0	137.2	137.2	134.6	115.7	83.4	78.0
72.5°	150.7	148.0	131.9	123.8	102.3	91.5	94.2	83.4	64.6	48.4	45.7
75°	75.3	80.7	75.3	70.0	56.5	51.1	51.1	45.7	32.3	18.8	18.8
77.5°	16.1	18.8	18.8	16.1	13.5	10.8	10.8	13.5	5.4	0.0	0.0
80°	2.7	2.7	2.7	2.7	2.7	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)