

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: P640744

Luminaire Tested: GWS-SA5E-740-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640744  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-740-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

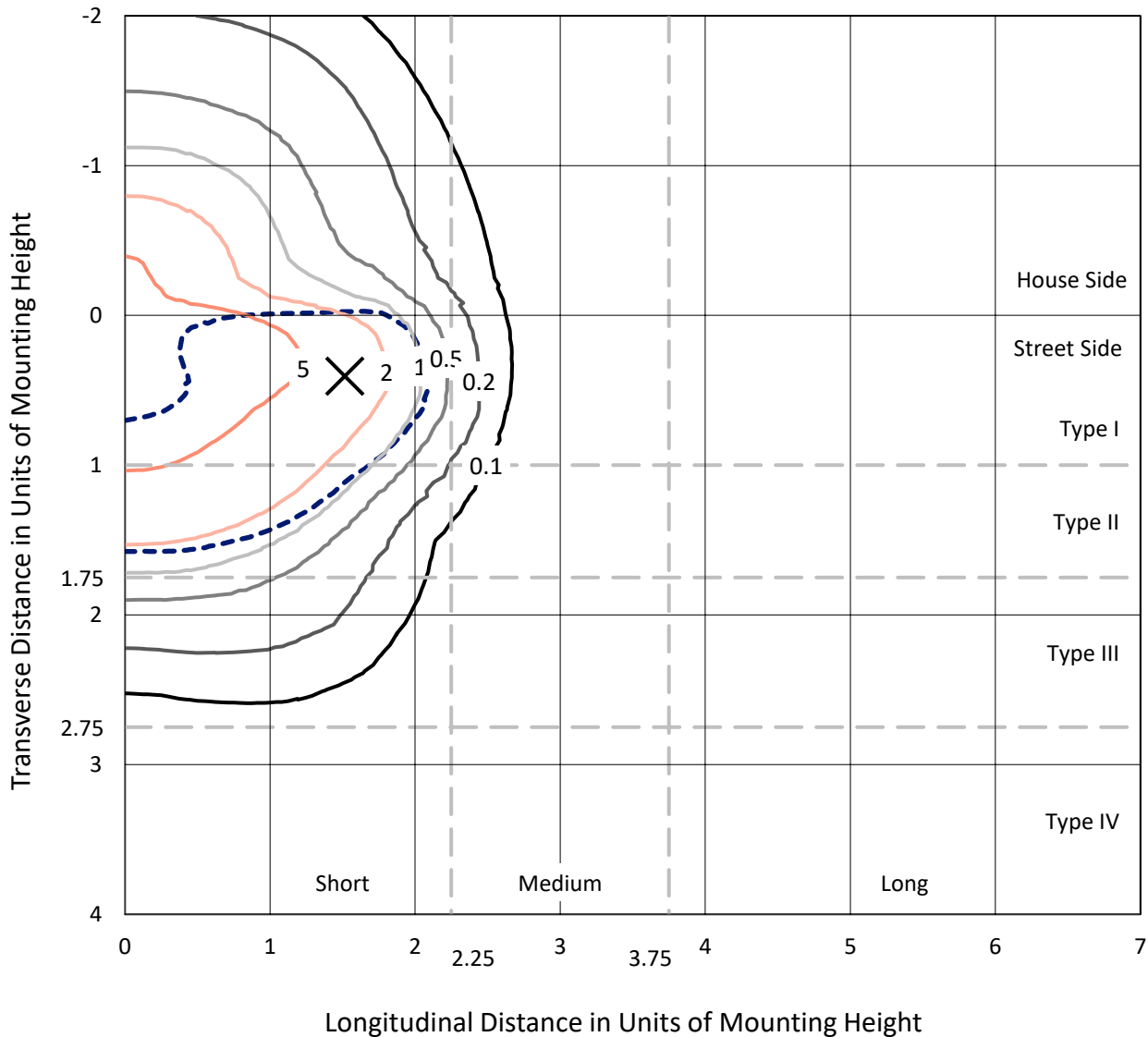
Lumens per Lamp: N/A  
Luminaire Lumens: 31298.4 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

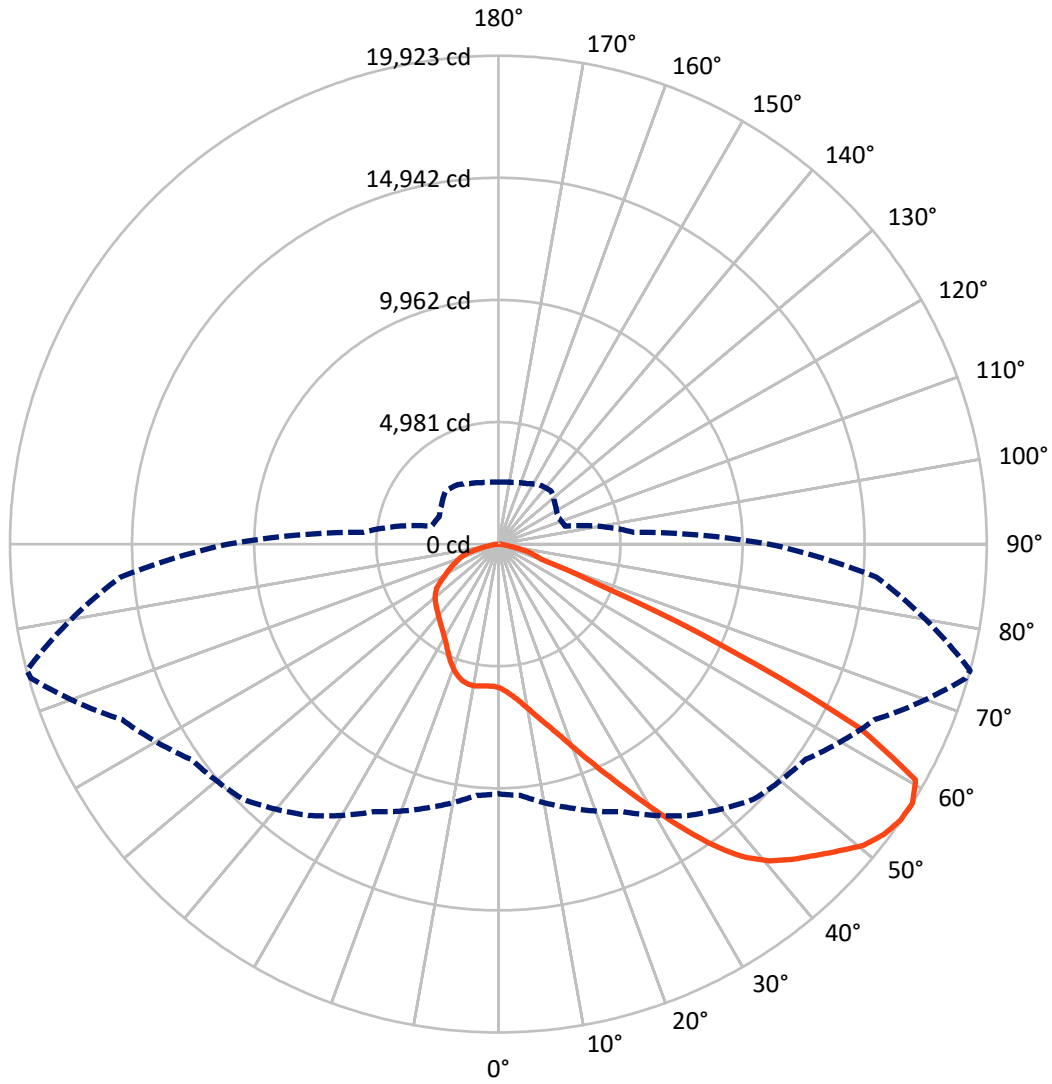
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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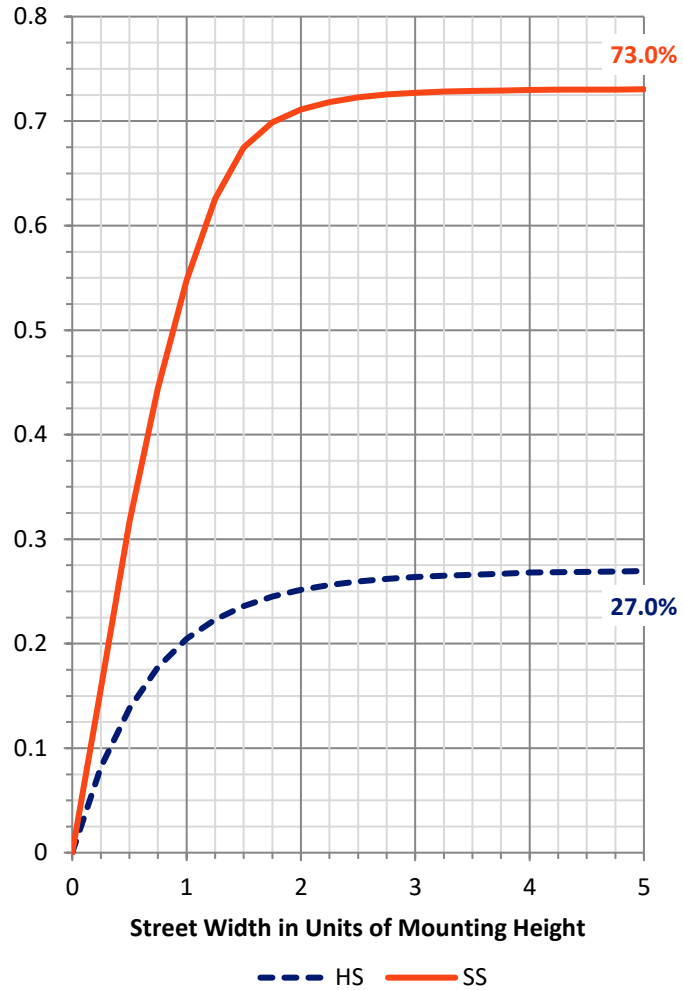
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8466.8	0.0	8466.8
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	22831.6	0.0	22831.6
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	31298.4	0.0	31298.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	586.5	1.9
10°-20°	1867.5	6.0
20°-30°	3311.9	10.6
30°-40°	5069.9	16.2
40°-50°	7059.5	22.6
50°-60°	8088.8	25.8
60°-70°	4156.1	13.3
70°-80°	1046.3	3.3
80°-90°	111.9	0.4
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°	31298.4	100.0
0°-180°	31298.4	100.0

**Coefficient of Utilization**



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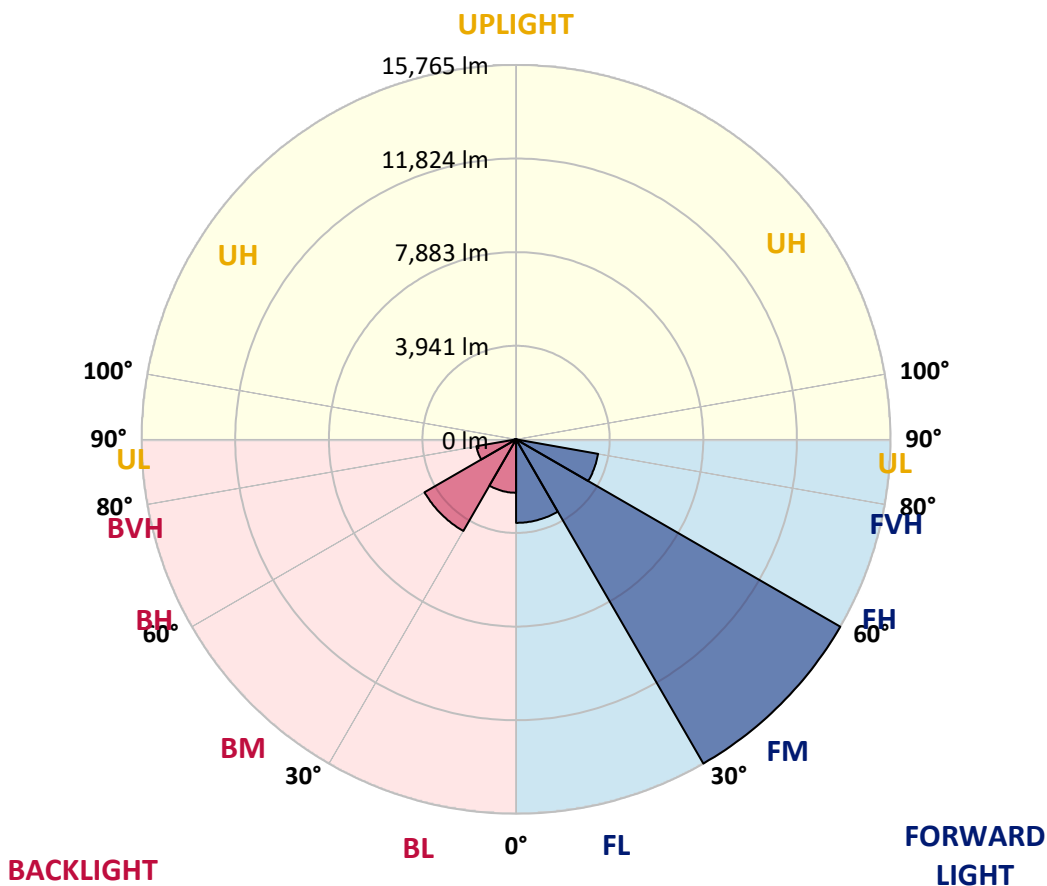
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3516.6	11.2			
FM (30°-60°)	15765.4	50.4			
FH (60°-80°)	3508.2	11.2			G2/5000
FVH (80°-90°)	41.4	0.1			G1/100
BL (0°-30°)	2249.3	7.2	B3/2500		
BM (30°-60°)	4452.8	14.2	B3/5000		
BH (60°-80°)	1694.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	70.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	5861.4	5861.4	5861.4	5861.4	5861.4	5861.4	5861.4	5861.4	5861.4	5861.4	5861.4
2.5°	6297.4	6313.6	6297.4	6324.3	6270.5	6246.3	6187.1	6098.3	6028.3	6017.5	5939.5
5°	6787.2	6822.2	6800.7	6789.9	6717.2	6663.4	6574.6	6397.0	6251.7	6230.1	6076.7
7.5°	7102.1	7126.3	7126.3	7134.4	7107.5	7045.6	6951.4	6741.5	6536.9	6504.6	6273.2
10°	7207.0	7225.9	7260.9	7328.1	7382.0	7400.8	7338.9	7137.1	6886.8	6854.5	6531.5
12.5°	7231.3	7252.8	7306.6	7430.4	7578.4	7713.0	7723.8	7575.7	7295.8	7260.9	6830.3
15°	7277.0	7298.5	7371.2	7524.6	7742.6	8000.9	8159.7	8057.5	7748.0	7710.3	7169.4
17.5°	7271.6	7295.8	7403.5	7608.0	7901.4	8275.4	8582.2	8625.3	8305.1	8240.5	7554.2
20°	7258.2	7279.7	7395.4	7645.7	8009.0	8523.0	9077.4	9300.8	8956.3	8897.1	8003.6
22.5°	7365.8	7390.0	7478.9	7686.1	8065.5	8714.1	9534.9	10073.2	9728.7	9645.3	8520.3
25°	7608.0	7643.0	7696.8	7839.5	8167.8	8883.7	10003.2	10947.8	10595.3	10495.7	9082.8
27.5°	7982.1	8025.2	8100.5	8167.8	8396.6	9099.0	10468.8	11927.4	11574.9	11469.9	9677.6
30°	8439.6	8496.1	8593.0	8638.8	8794.8	9416.5	10974.7	12936.6	12732.1	12586.8	10347.7
32.5°	9072.0	9150.1	9241.6	9255.0	9349.2	9898.2	11475.3	13937.7	13935.0	13832.8	11109.3
35°	9895.6	9979.0	9997.8	10016.7	10062.4	10560.3	12080.8	14850.1	15202.6	15084.2	11938.2
37.5°	10794.4	10915.5	10945.1	10861.7	10926.3	11356.9	12761.7	15582.1	16306.0	16179.5	12740.2
40°	11755.2	11803.6	11884.4	11752.5	11833.2	12269.2	13429.1	16050.3	17129.5	16994.9	13372.6
42.5°	12444.1	12532.9	12654.0	12605.6	12651.3	13049.6	13897.4	16276.4	17716.2	17581.6	13827.4
45°	13192.3	13219.2	13297.2	13286.5	13313.4	13684.8	14233.8	16376.0	18241.0	18119.9	14214.9
47.5°	13843.5	13883.9	13935.0	13875.8	13816.6	14058.8	14508.3	16462.1	18846.5	18701.2	14621.3
50°	14470.6	14505.6	14567.5	14395.2	14174.6	14236.5	14642.8	16580.5	19414.3	19312.1	14941.6
52.5°	14586.3	14624.0	14914.6	14949.6	14667.1	14449.1	14879.7	16841.5	19748.0	19683.5	15057.3
55°	13130.4	13197.7	13776.3	14441.0	15138.0	15068.0	15259.1	16978.8	19879.9	19896.1	15264.5
57.5°	10191.6	10288.5	11133.5	12045.8	13512.5	14726.3	15307.6	16943.8	19834.2	19923.0	15477.1
60°	6684.9	6741.5	7742.6	8765.2	10285.8	11965.1	13700.9	16314.1	19427.8	19554.3	15423.3
62.5°	4036.8	4101.4	4906.1	5681.1	6577.3	7699.5	9292.7	13111.5	16284.5	16567.0	12352.6
65°	2817.7	2903.8	3608.9	4246.7	4556.2	4324.8	4706.9	7322.8	10145.8	10264.2	7548.8
67.5°	2042.6	2101.8	2680.4	3439.4	3781.1	3054.5	2327.9	3242.9	4419.0	4462.0	3113.7
70°	1337.5	1404.8	1929.6	2618.5	3086.8	2475.9	1741.2	1754.7	1859.6	1881.2	1808.5
72.5°	734.7	775.1	1192.2	1738.5	1824.6	1480.2	1359.1	1458.6	1531.3	1531.3	1550.1
75°	379.5	414.4	487.1	573.2	691.6	810.1	979.6	1127.6	1205.7	1211.0	1203.0
77.5°	193.8	207.2	261.0	282.6	309.5	360.6	468.3	600.1	670.1	697.0	691.6
80°	91.5	96.9	110.3	129.2	158.8	201.8	253.0	301.4	344.5	349.9	379.5
82.5°	48.4	53.8	59.2	70.0	86.1	107.6	148.0	177.6	204.5	209.9	234.1
85°	18.8	21.5	24.2	26.9	37.7	45.8	61.9	83.4	102.3	102.3	121.1
87.5°	0.0	0.0	0.0	0.0	2.7	5.4	10.8	13.5	18.8	18.8	32.3
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°	5861.4	5861.4	5861.4	5861.4	5861.4	5861.4	5861.4	5861.4	5861.4	5861.4	5861.4
2.5°	5920.6	5842.6	5807.6	5751.1	5705.3	5654.2	5613.8	5584.2	5565.4	5554.6	5543.9
5°	6017.5	5899.1	5804.9	5691.9	5613.8	5538.5	5476.6	5433.5	5412.0	5395.9	5385.1
7.5°	6168.2	6009.5	5831.8	5656.9	5519.7	5398.6	5320.5	5274.8	5245.2	5234.4	5226.3
10°	6375.5	6154.8	5861.4	5584.2	5379.7	5247.8	5194.0	5172.5	5175.2	5169.8	5167.1
12.5°	6609.6	6308.2	5853.4	5455.1	5229.0	5151.0	5153.7	5188.6	5229.0	5239.8	5242.5
15°	6862.6	6458.9	5775.3	5288.2	5110.6	5118.7	5188.6	5272.1	5347.4	5377.0	5382.4
17.5°	7137.1	6585.4	5632.7	5105.2	5013.7	5099.8	5229.0	5366.3	5476.6	5525.0	5538.5
20°	7443.9	6693.0	5430.8	4924.9	4922.2	5064.8	5253.2	5433.5	5573.5	5638.1	5648.8
22.5°	7769.5	6760.3	5183.3	4758.0	4828.0	5019.1	5234.4	5422.8	5570.8	5635.4	5648.8
25°	8097.8	6781.8	4911.4	4604.6	4731.1	4946.4	5142.9	5293.6	5433.5	5490.1	5500.8
27.5°	8404.6	6719.9	4653.1	4472.8	4642.3	4838.8	4970.7	5051.4	5148.3	5191.3	5199.4
30°	8716.8	6596.1	4435.1	4367.8	4542.7	4690.8	4750.0	4755.4	4793.0	4793.0	4798.4
32.5°	9031.7	6413.1	4244.0	4265.6	4419.0	4515.8	4523.9	4462.0	4416.3	4340.9	4338.2
35°	9395.0	6227.4	4087.9	4149.8	4273.6	4332.8	4308.6	4190.2	4079.9	3956.1	3950.7
37.5°	9731.4	6036.4	3956.1	4031.4	4109.5	4152.5	4096.0	3953.4	3861.9	3735.4	3716.6
40°	10008.6	5864.1	3829.6	3907.6	3945.3	3983.0	3891.5	3775.8	3789.2	3719.2	3716.6
42.5°	10170.1	5697.3	3711.2	3770.4	3794.6	3821.5	3740.8	3654.7	3727.3	3673.5	3676.2
45°	10288.5	5552.0	3603.5	3625.0	3684.3	3724.6	3649.3	3552.4	3568.5	3361.3	3312.9
47.5°	10423.0	5471.2	3501.3	3479.7	3584.7	3654.7	3538.9	3399.0	3302.1	3097.6	3078.7
50°	10565.7	5441.6	3393.6	3334.4	3460.9	3528.2	3393.6	3218.7	3092.2	2981.9	2971.1
52.5°	10614.1	5438.9	3259.0	3159.5	3286.0	3380.2	3267.1	3089.5	2938.8	2831.1	2825.8
55°	10805.2	5517.0	3086.8	2920.0	3038.4	3232.1	3148.7	2893.0	2771.9	2723.5	2718.1
57.5°	11028.5	5530.4	2815.0	2658.9	2823.1	3051.8	2946.9	2726.2	2594.3	2535.1	2529.7
60°	10937.0	5199.4	2524.3	2459.8	2640.1	2882.3	2785.4	2594.3	2440.9	2384.4	2379.0
62.5°	8334.7	3670.8	2311.7	2287.5	2443.6	2637.4	2618.5	2419.4	2274.1	2233.7	2228.3
65°	5013.7	2578.2	2107.2	2104.5	2214.9	2400.6	2424.8	2263.3	2109.9	2053.4	2053.4
67.5°	2478.6	1972.7	1875.8	1862.3	1932.3	2064.2	2166.4	2034.5	1905.4	1851.5	1843.5
70°	1752.0	1738.5	1706.2	1668.5	1682.0	1735.8	1778.9	1668.5	1531.3	1477.5	1466.7
72.5°	1515.1	1517.8	1496.3	1466.7	1455.9	1418.3	1380.6	1299.9	1216.4	1159.9	1165.3
75°	1176.1	1181.4	1194.9	1184.1	1154.5	1114.2	1073.8	971.5	904.2	850.4	839.7
77.5°	686.3	713.2	756.2	745.5	750.8	694.3	678.2	578.6	516.7	479.0	471.0
80°	387.5	403.7	422.5	436.0	419.8	395.6	360.6	306.8	288.0	261.0	255.7
82.5°	234.1	250.3	258.4	269.1	263.7	231.4	204.5	169.5	153.4	139.9	137.3
85°	118.4	129.2	137.3	142.6	126.5	105.0	94.2	75.4	64.6	56.5	56.5
87.5°	29.6	32.3	37.7	32.3	29.6	13.5	10.8	2.7	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)