

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: P640705

Luminaire Tested: GWS-SA5E-735-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640705  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-735-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

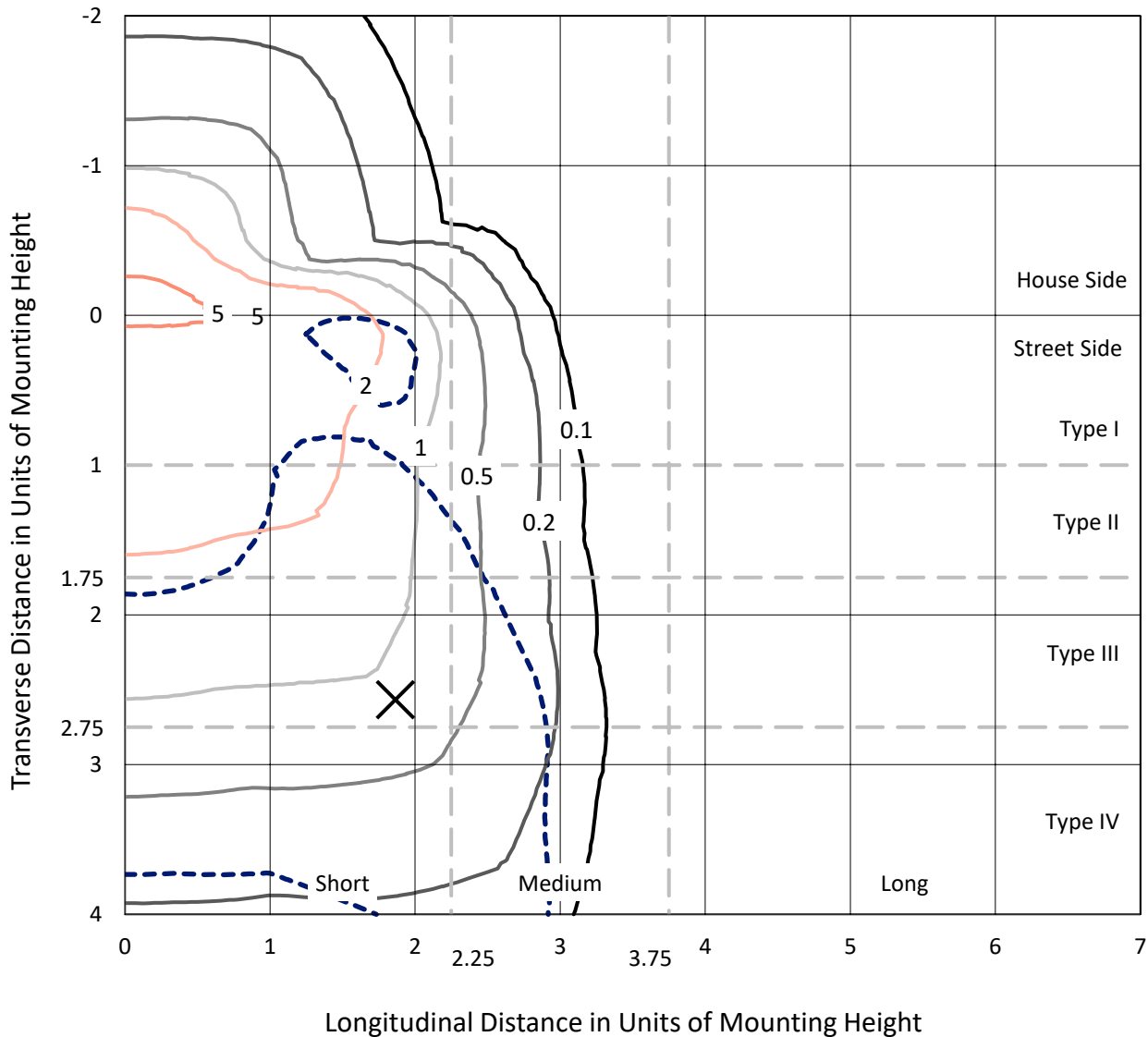
Lumens per Lamp: N/A  
Luminaire Lumens: 35764 lumens  
Efficiency: N/A  
Efficacy: 132.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

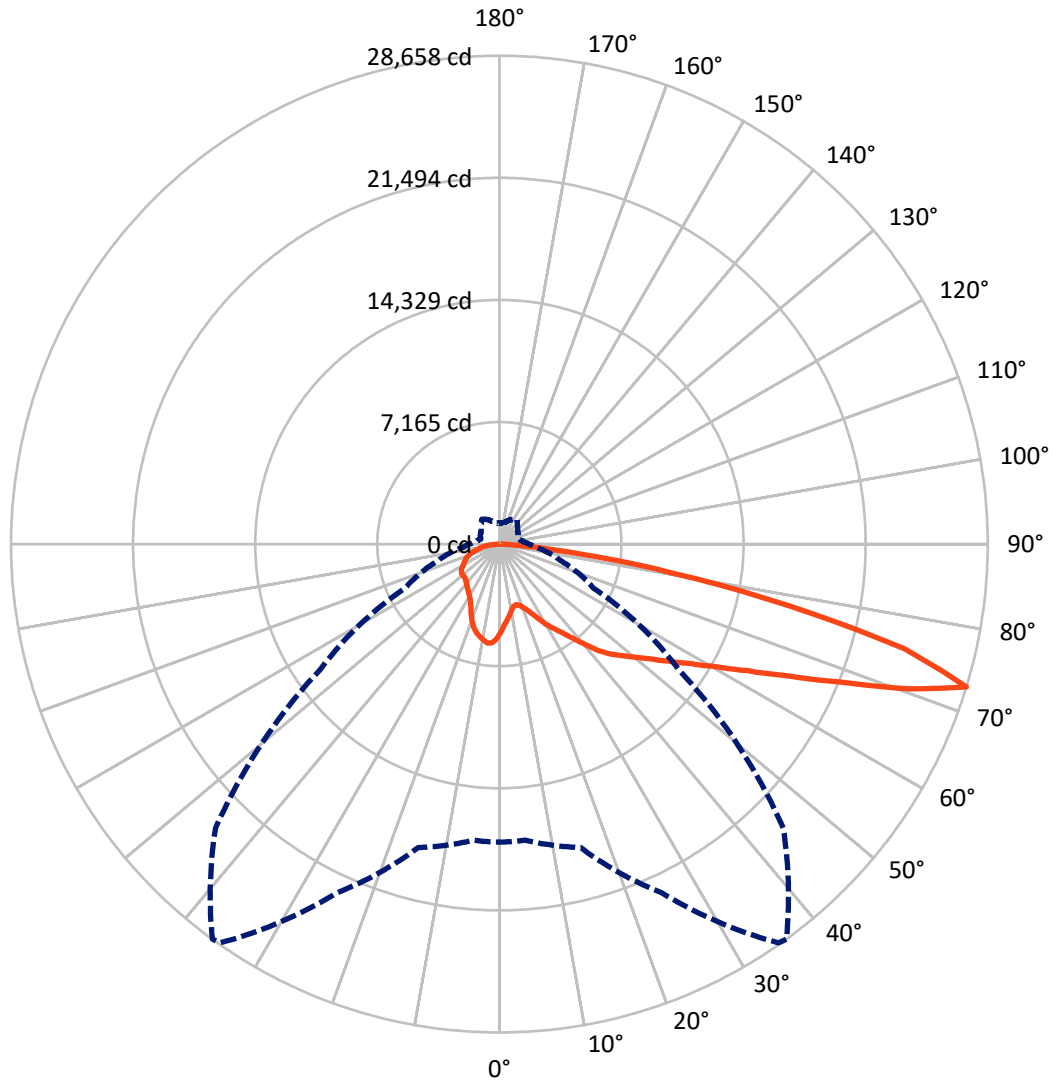
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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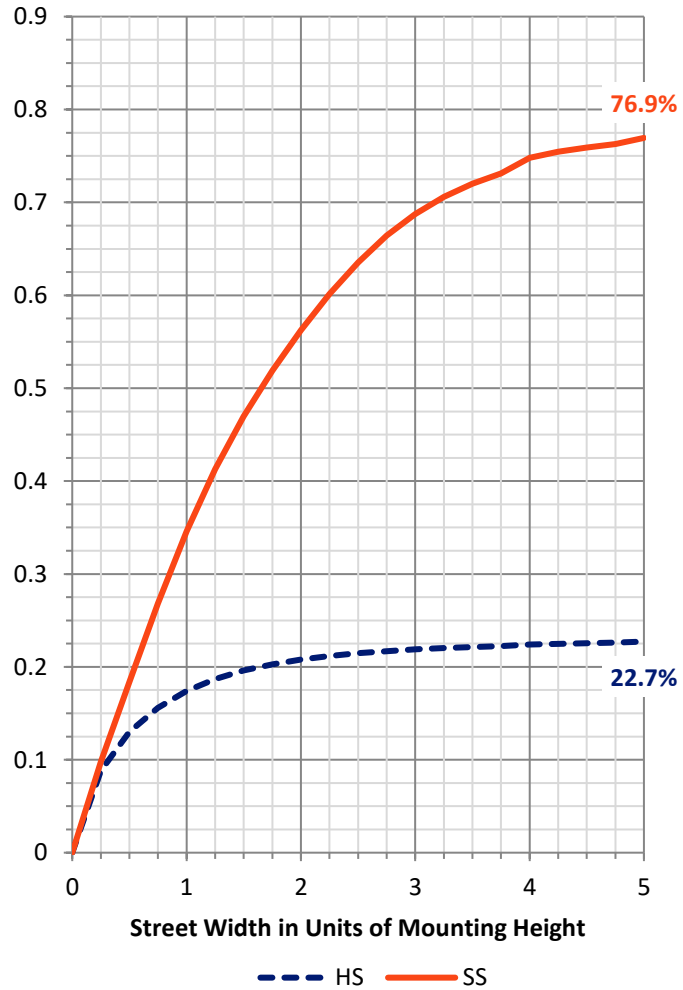
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8245.1	0.0	8245.1
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	27518.9	0.0	27518.9
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	35764.0	0.0	35764.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	489.3	1.4
10°-20°	1380.4	3.9
20°-30°	2286.1	6.4
30°-40°	3423.6	9.6
40°-50°	4994.8	14.0
50°-60°	7109.1	19.9
60°-70°	8981.8	25.1
70°-80°	6400.3	17.9
80°-90°	698.7	2.0
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°	35764.0	100.0
0°-180°	35764.0	100.0

**Coefficient of Utilization**



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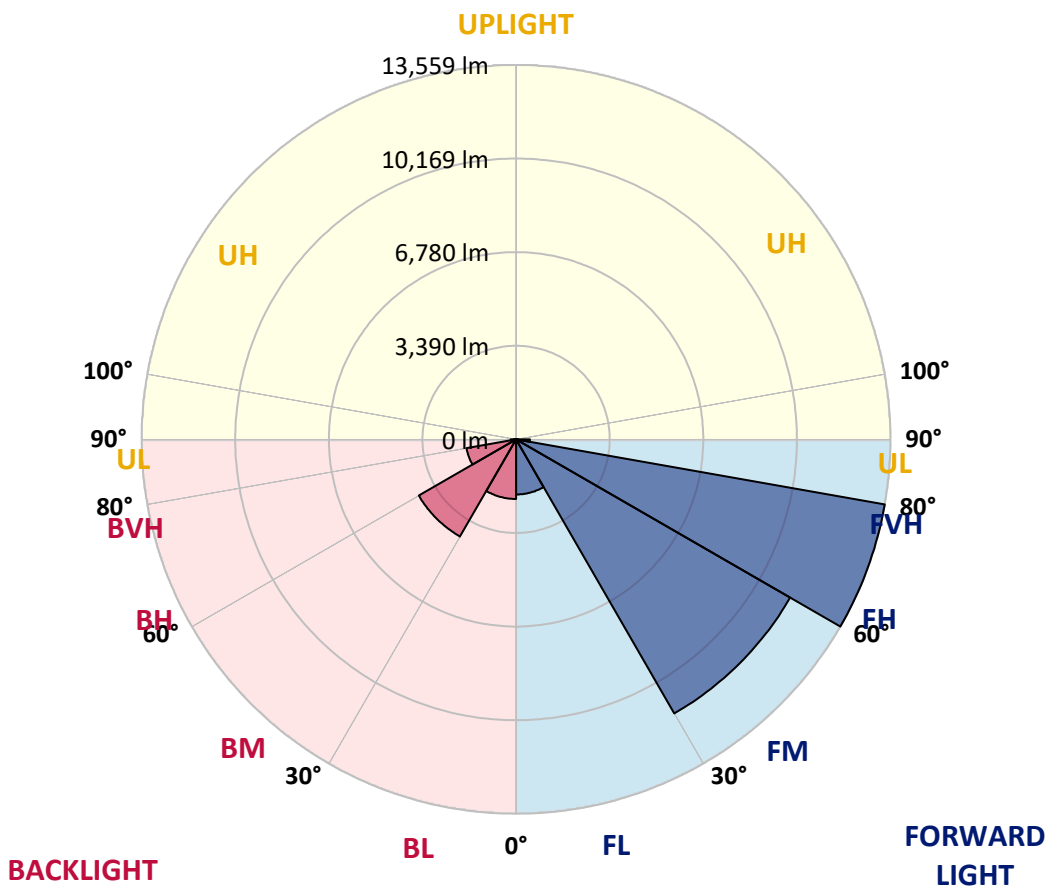
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1996.6	5.6			
FM (30°-60°)	11461.5	32.0			
FH (60°-80°)	13559.3	37.9			G5
FVH (80°-90°)	501.5	1.4			G4/750
BL (0°-30°)	2159.1	6.0	B3/2500		
BM (30°-60°)	4066.0	11.4	B3/5000		
BH (60°-80°)	1822.8	5.1	B3/2500		G3/2500
BVH (80°-90°)	197.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	5234.2	5234.2	5234.2	5234.2	5234.2	5234.2	5234.2	5234.2	5234.2	5234.2	5234.2
2.5°	4775.0	4767.1	4751.1	4798.9	4846.7	4841.4	4907.7	4971.4	5040.5	5112.1	5207.7
5°	4392.8	4387.5	4374.2	4445.9	4517.6	4514.9	4623.7	4727.3	4867.9	5021.9	5213.0
7.5°	4010.6	3997.3	4015.9	4106.2	4207.0	4217.6	4366.3	4536.1	4740.5	4971.4	5242.2
10°	3673.5	3670.9	3678.8	3779.7	3931.0	3941.6	4132.7	4368.9	4639.7	4947.6	5308.5
12.5°	3585.9	3580.6	3559.4	3609.8	3723.9	3739.9	3949.6	4238.9	4570.7	4960.8	5398.8
15°	3729.3	3716.0	3641.7	3617.8	3673.5	3686.8	3864.6	4161.9	4530.8	4984.7	5512.9
17.5°	3976.1	3968.1	3827.5	3729.3	3766.4	3777.0	3909.7	4148.6	4520.2	5032.5	5653.6
20°	4337.1	4302.6	4082.3	3933.6	3933.6	3949.6	4029.2	4207.0	4533.5	5090.9	5812.9
22.5°	4814.8	4745.8	4435.3	4233.6	4180.5	4201.7	4236.2	4353.0	4589.2	5189.1	6011.9
25°	5351.0	5287.3	4918.4	4634.4	4560.0	4568.0	4538.8	4560.0	4711.3	5324.5	6258.8
27.5°	5921.7	5879.2	5486.4	5125.4	5008.6	5008.6	4905.1	4854.7	4881.2	5478.4	6534.8
30°	6431.3	6372.9	6041.1	5645.6	5491.7	5491.7	5295.3	5186.4	5122.7	5666.9	6903.8
32.5°	6699.4	6664.9	6444.6	6142.0	5953.5	5924.3	5754.5	5627.1	5478.4	5945.6	7402.8
35°	7049.7	7041.8	6909.1	6672.8	6434.0	6391.5	6274.7	6173.8	5916.4	6293.3	8066.3
37.5°	7490.4	7477.1	7455.8	7315.2	7028.5	7020.5	6917.0	6794.9	6460.5	6794.9	8870.6
40°	7984.0	7960.2	7933.6	7931.0	7758.4	7729.2	7721.3	7583.3	7116.1	7400.1	9709.3
42.5°	8663.5	8581.3	8331.8	8443.2	8570.6	8544.1	8645.0	8437.9	7933.6	8119.4	10502.9
45°	9499.6	9297.9	8804.2	8836.1	9157.2	9210.3	9560.7	9510.3	8833.4	8950.2	11339.0
47.5°	10001.3	9826.1	9366.9	9340.4	9741.2	9807.5	10569.3	10664.9	9802.2	9950.9	12371.6
50°	10412.7	10290.6	9913.7	9950.9	10375.5	10441.9	11570.0	11774.3	10715.3	10975.4	13571.3
52.5°	10909.1	10733.9	10441.9	10617.1	11137.3	11216.9	12682.1	12902.4	11538.1	12100.8	14813.5
55°	11187.8	11116.1	11121.4	11389.5	12042.4	12151.3	13847.3	13810.2	12291.9	13064.3	15747.8
57.5°	11830.1	11803.5	12047.7	12148.6	13098.8	13239.5	15012.6	14694.0	12976.7	13810.2	16196.4
60°	12963.5	12897.1	13109.4	13263.4	14404.7	14603.8	16313.1	15559.3	13441.2	14364.9	16045.1
62.5°	14556.0	14473.7	14481.7	14725.9	16153.9	16363.6	17759.7	16281.3	13584.6	14449.8	15086.9
65°	16536.1	16416.7	16281.3	16613.1	18476.4	18651.6	19333.7	16806.8	13242.2	13632.3	13085.6
67.5°	18625.0	18526.8	18367.6	19063.0	21483.7	21589.8	21098.8	16761.7	12156.6	11445.2	9178.5
70°	18747.1	18771.0	19524.8	22041.1	25409.3	25435.9	22768.3	15854.0	9844.7	7418.7	4573.3
72.5°	17489.0	17449.2	18431.3	22585.2	28567.9	28658.2	23556.7	12844.0	6083.6	3700.1	2144.7
75°	14205.7	14274.7	15307.2	19761.0	24485.6	24565.3	19203.6	7572.6	2890.5	1810.2	1372.3
77.5°	6115.4	6500.3	8536.1	13921.6	17536.8	17289.9	9897.8	3068.3	1542.1	1290.0	1051.1
80°	1765.1	1916.4	3041.8	6619.8	10508.3	10322.5	3917.7	1149.3	1075.0	968.8	753.8
82.5°	570.7	631.7	1114.8	2635.7	4708.7	4703.4	1486.4	679.5	703.4	658.3	485.7
85°	159.3	183.1	342.4	798.9	1457.2	1428.0	430.0	321.2	374.3	379.6	241.5
87.5°	0.0	0.0	2.7	5.3	5.3	5.3	10.6	47.8	108.8	138.0	98.2
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°	5234.2	5234.2	5234.2	5234.2	5234.2	5234.2	5234.2	5234.2	5234.2	5234.2	5234.2
2.5°	5266.1	5258.1	5366.9	5451.9	5531.5	5584.6	5600.5	5611.1	5632.4	5643.0	5632.4
5°	5303.2	5343.0	5523.5	5656.3	5762.4	5826.1	5828.8	5823.5	5839.4	5826.1	5818.2
7.5°	5382.9	5459.8	5688.1	5828.8	5897.8	5900.4	5836.7	5762.4	5725.3	5693.4	5682.8
10°	5489.0	5603.2	5852.7	5945.6	5924.3	5826.1	5685.4	5568.7	5502.3	5454.5	5443.9
12.5°	5635.0	5762.4	5998.7	5996.0	5863.3	5688.1	5523.5	5382.9	5287.3	5231.6	5213.0
15°	5773.0	5934.9	6104.8	5980.1	5770.4	5558.0	5345.7	5157.2	5029.8	4942.3	4926.3
17.5°	5942.9	6115.4	6181.8	5929.6	5653.6	5380.2	5096.2	4849.4	4676.8	4573.3	4565.3
20°	6139.3	6293.3	6219.0	5842.0	5502.3	5144.0	4759.1	4483.1	4297.3	4196.4	4204.4
22.5°	6367.6	6479.1	6229.6	5722.6	5292.6	4809.5	4379.5	4114.1	3989.4	3936.3	3938.9
25°	6611.8	6683.5	6211.0	5560.7	4971.4	4400.8	3989.4	3867.3	3856.7	3843.4	3848.7
27.5°	6901.1	6885.2	6155.3	5332.4	4538.8	3925.7	3716.0	3747.8	3790.3	3785.0	3790.3
30°	7288.6	7137.3	6083.6	5016.6	4023.9	3527.5	3554.1	3644.3	3700.1	3705.4	3721.3
32.5°	7731.9	7416.0	5969.5	4586.6	3532.8	3304.6	3402.8	3511.6	3578.0	3591.2	3612.5
35°	8260.1	7734.5	5767.7	4050.4	3179.8	3171.9	3262.1	3336.4	3408.1	3413.4	3413.4
37.5°	8867.9	8053.1	5446.6	3458.5	2962.2	3057.7	3142.7	3158.6	3177.2	3161.2	3169.2
40°	9425.3	8361.0	4990.0	2919.7	2784.3	2956.9	3028.5	2975.4	2917.0	2877.2	2885.2
42.5°	9892.5	8570.6	4384.9	2542.8	2603.8	2866.6	2922.4	2813.5	2699.4	2625.1	2635.7
45°	10418.0	8764.4	3673.5	2288.0	2449.9	2802.9	2840.1	2699.4	2553.4	2441.9	2426.0
47.5°	11142.6	9159.9	3041.8	2110.1	2341.1	2768.4	2829.5	2638.3	2447.2	2280.0	2261.4
50°	12037.1	9719.9	2513.6	1993.4	2290.6	2749.8	2826.8	2572.0	2343.7	2147.3	2134.0
52.5°	13013.9	10266.7	2123.4	1903.1	2240.2	2694.1	2813.5	2497.7	2234.9	2022.6	2006.6
55°	13664.2	10481.7	1860.6	1818.2	2157.9	2606.5	2760.4	2426.0	2070.3	1876.6	1852.7
57.5°	13855.3	10205.7	1677.5	1741.2	2051.8	2484.4	2659.6	2274.7	1969.5	1815.5	1796.9
60°	13526.2	9510.3	1563.4	1677.5	1935.0	2327.8	2484.4	2187.1	1889.8	1751.8	1738.5
62.5°	12597.2	8437.9	1475.8	1611.1	1815.5	2163.2	2372.9	2080.9	1802.2	1693.4	1674.8
65°	10728.6	6919.7	1404.1	1542.1	1701.4	2006.6	2250.8	1974.8	1706.7	1624.4	1603.2
67.5°	7503.6	4860.0	1327.1	1459.8	1587.3	1855.3	2123.4	1876.6	1608.5	1547.4	1526.2
70°	3668.2	2577.3	1234.2	1364.3	1465.2	1701.4	1996.0	1757.1	1478.4	1443.9	1414.7
72.5°	1746.5	1441.3	1125.4	1234.2	1297.9	1497.0	1783.7	1584.6	1324.5	1250.2	1199.7
75°	1170.5	1024.5	982.1	1080.3	1096.2	1255.5	1528.9	1366.9	1167.9	1082.9	1040.5
77.5°	886.5	783.0	825.5	913.1	881.2	1032.5	1258.1	1218.3	1053.7	976.8	955.5
80°	623.8	570.7	655.6	708.7	684.8	878.6	1133.4	1043.1	867.9	783.0	767.1
82.5°	392.8	382.2	483.1	491.0	499.0	695.4	931.6	820.2	674.2	554.7	514.9
85°	196.4	217.7	289.3	289.3	286.7	358.3	530.9	461.8	363.6	289.3	281.4
87.5°	66.4	92.9	124.8	100.9	77.0	61.0	69.0	84.9	90.2	87.6	87.6
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)