

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: P636521

Luminaire Tested: GWS-SA3F-830-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636521  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3F-830-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

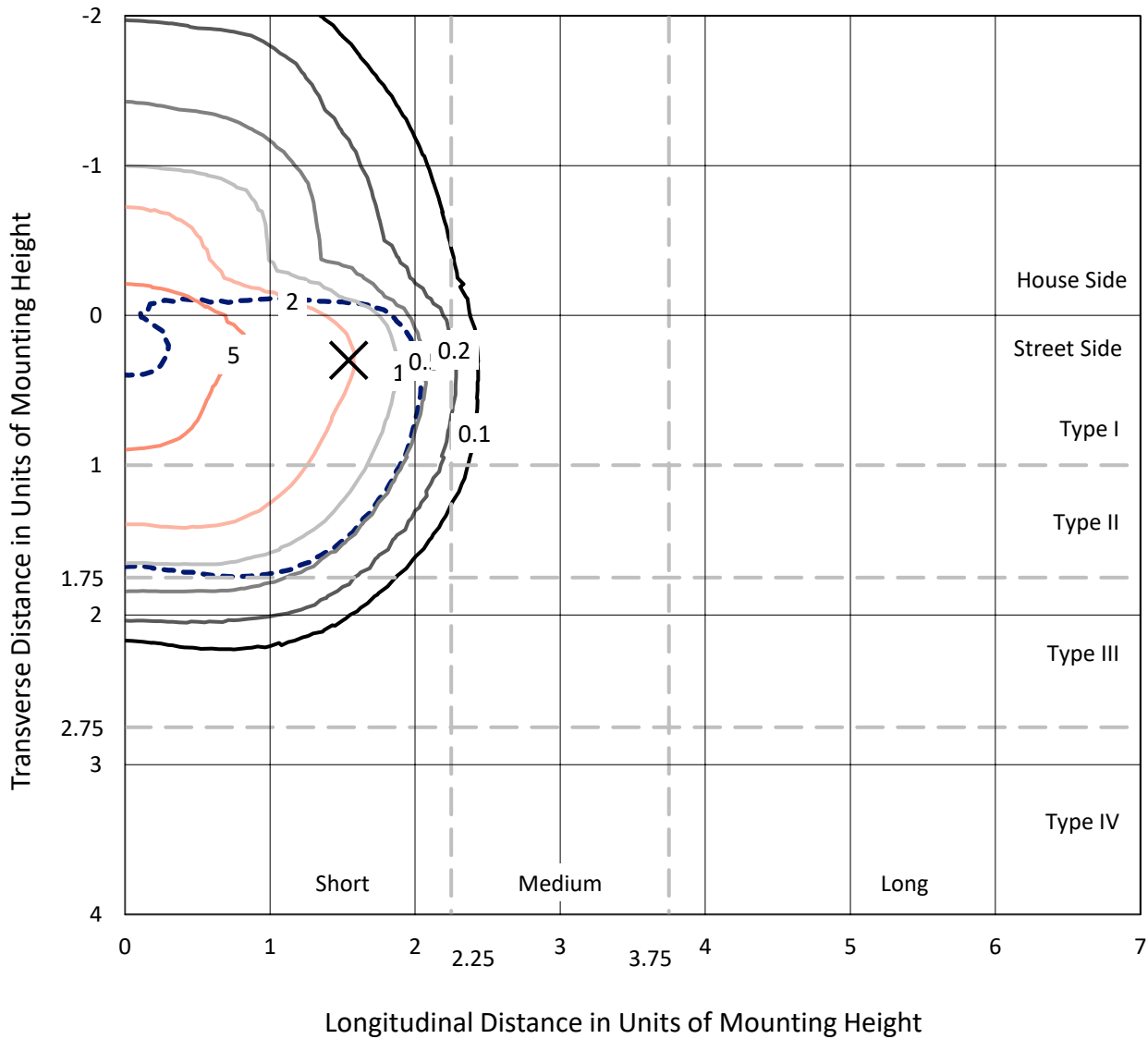
Lumens per Lamp: N/A  
Luminaire Lumens: 17029 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

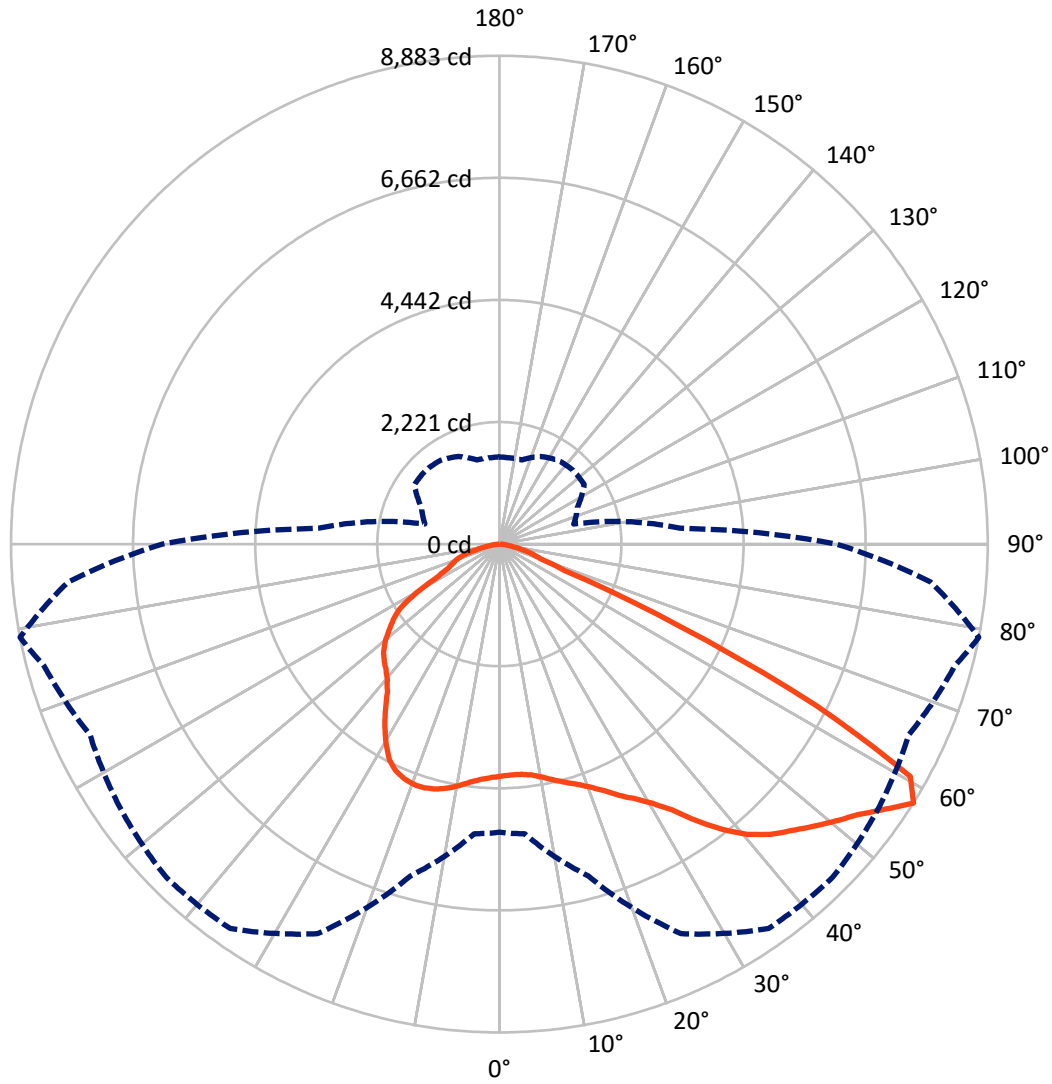
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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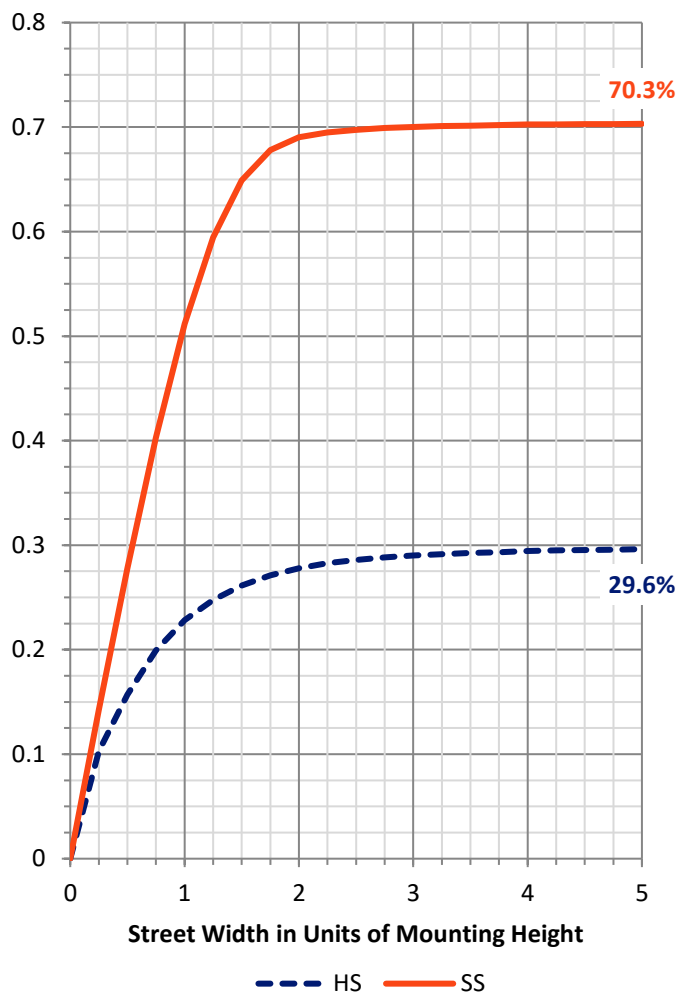
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5061.9	0.0	5061.9
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	11967.1	0.0	11967.1
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	17029.0	0.0	17029.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.8	2.3
10°-20°	1086.1	6.4
20°-30°	1841.0	10.8
30°-40°	2817.9	16.5
40°-50°	3757.4	22.1
50°-60°	4339.5	25.5
60°-70°	2254.9	13.2
70°-80°	479.3	2.8
80°-90°	62.1	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°	17029.0	100.0
0°-180°	17029.0	100.0

**Coefficient of Utilization**



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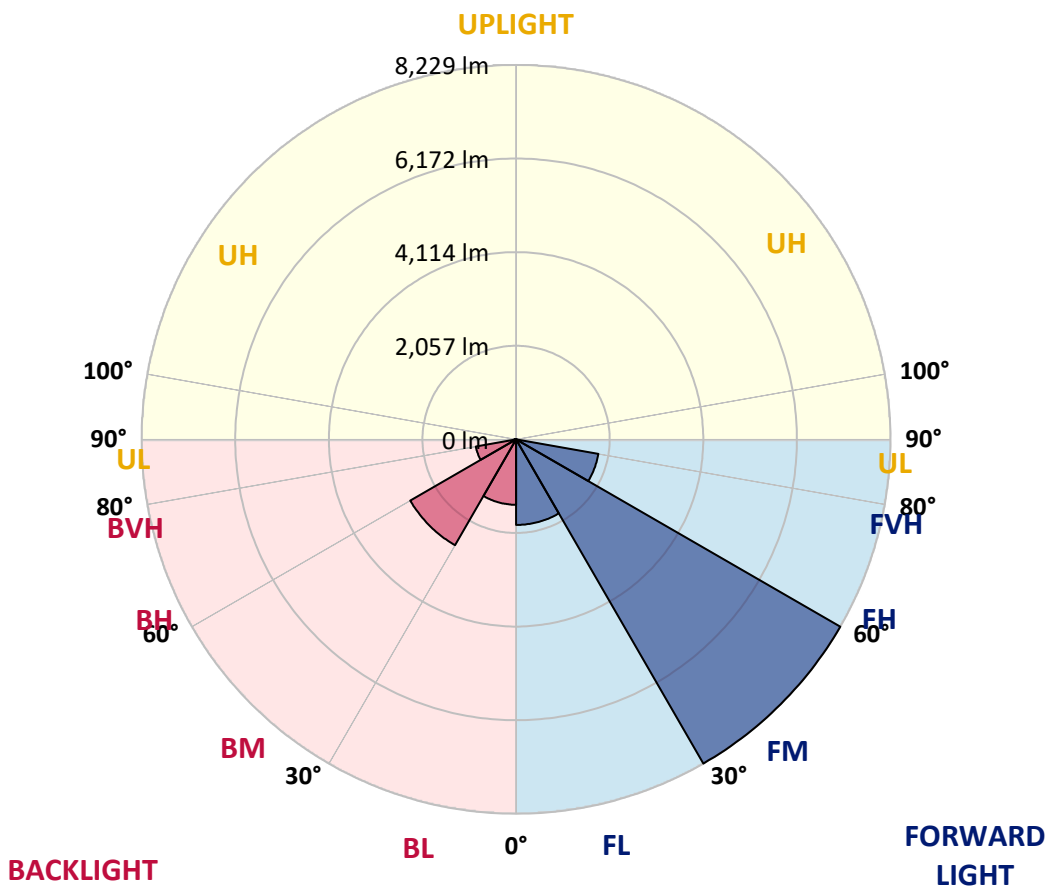
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1880.4	11.0			
FM (30°-60°)	8228.9	48.3			
FH (60°-80°)	1836.1	10.8			G2/5000
FVH (80°-90°)	21.6	0.1			G1/100
BL (0°-30°)	1437.5	8.4	B3/2500		
BM (30°-60°)	2685.8	15.8	B3/5000		
BH (60°-80°)	898.1	5.3	B2/1000		G2/1000
BVH (80°-90°)	40.4	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4220.2	4220.2	4220.2	4220.2	4220.2	4220.2	4220.2	4220.2	4220.2	4220.2	4220.2
2.5°	4028.0	4019.7	4022.5	4033.6	4075.4	4106.0	4138.0	4167.3	4195.1	4203.5	4210.4
5°	3884.6	3869.3	3873.5	3891.6	3940.3	3991.8	4048.9	4118.5	4185.4	4207.6	4236.9
7.5°	3783.0	3780.2	3787.2	3815.0	3866.5	3915.3	3989.1	4087.9	4203.5	4241.1	4292.6
10°	3647.9	3642.4	3670.2	3727.3	3812.2	3890.2	3977.9	4094.9	4256.4	4312.1	4391.4
12.5°	3540.7	3537.9	3567.2	3646.5	3755.1	3879.1	4000.2	4131.1	4327.4	4404.0	4501.4
15°	3603.4	3590.8	3592.2	3647.9	3745.4	3891.6	4055.9	4196.5	4398.4	4495.9	4621.2
17.5°	3785.8	3763.5	3746.8	3756.5	3812.2	3964.0	4140.8	4284.2	4480.5	4594.7	4747.9
20°	4037.8	4025.3	3979.3	3948.7	3961.2	4094.9	4274.5	4408.1	4587.8	4715.9	4880.1
22.5°	4376.1	4345.5	4282.8	4234.1	4196.5	4300.9	4466.6	4582.2	4736.7	4870.4	5041.7
25°	4795.2	4750.7	4651.8	4575.2	4494.5	4601.7	4749.3	4837.0	4941.4	5065.3	5228.2
27.5°	5222.7	5185.1	5075.1	4972.0	4871.8	4938.6	5114.1	5164.2	5153.0	5243.5	5382.8
30°	5678.0	5630.6	5526.2	5414.8	5285.3	5328.5	5485.8	5510.9	5392.5	5467.7	5562.4
32.5°	6158.3	6112.4	6021.9	5892.4	5746.2	5762.9	5806.1	5829.7	5716.9	5760.1	5832.5
35°	6647.0	6603.9	6512.0	6383.9	6276.7	6175.0	6066.4	6161.1	6095.7	6179.2	6173.6
37.5°	7094.0	7050.8	6993.7	6894.9	6711.1	6510.6	6260.0	6376.9	6478.6	6584.4	6566.3
40°	7396.1	7366.9	7380.8	7365.5	7128.8	6732.0	6354.6	6482.7	6759.8	6940.8	6931.1
42.5°	7656.5	7627.2	7708.0	7766.5	7488.0	6936.6	6400.6	6523.1	6939.4	7222.1	7208.1
45°	7772.0	7763.7	7897.3	8082.5	7816.6	7153.8	6518.9	6606.6	7075.9	7437.9	7385.0
47.5°	7634.2	7663.4	7926.6	8239.9	8089.5	7411.4	6761.2	6783.5	7254.1	7671.8	7522.8
50°	7359.9	7424.0	7779.0	8244.0	8288.6	7702.4	7096.8	7041.1	7493.6	7921.0	7595.2
52.5°	6960.3	7027.1	7606.3	8212.0	8402.8	8039.4	7543.7	7464.3	7795.7	8170.2	7607.7
55°	6042.8	6133.3	7210.9	8139.6	8514.2	8345.7	8047.7	7886.2	8185.6	8512.8	7731.7
57.5°	5242.2	5289.5	6247.4	7818.0	8536.4	8571.2	8406.9	8214.8	8572.6	8883.1	7870.9
60°	3847.0	3858.2	4720.0	6468.8	7852.8	8440.4	8377.7	8092.3	8388.8	8586.6	7233.2
62.5°	2173.4	2174.8	2862.6	4317.6	5865.9	6879.5	6918.5	6666.5	6417.3	6475.8	5034.7
65°	815.9	892.5	1307.4	2121.9	3382.0	4061.5	4223.0	4281.4	3866.5	3608.9	2699.7
67.5°	545.8	563.9	763.0	1091.6	1505.1	1737.6	1943.7	1949.3	1425.8	1271.2	1063.7
70°	416.3	434.4	600.1	781.1	763.0	704.5	761.6	740.7	765.8	786.7	808.9
72.5°	310.5	328.6	465.0	551.4	458.1	451.1	511.0	568.1	621.0	643.3	678.1
75°	206.1	220.0	313.3	295.2	253.4	299.4	373.1	430.2	460.9	487.3	513.8
77.5°	130.9	140.6	167.1	135.1	140.6	175.4	217.2	268.7	298.0	324.4	338.3
80°	59.9	58.5	57.1	64.0	79.4	103.0	130.9	161.5	183.8	194.9	203.3
82.5°	23.7	26.5	29.2	34.8	43.2	55.7	73.8	94.7	112.8	115.6	122.5
85°	9.7	11.1	12.5	15.3	19.5	25.1	30.6	43.2	54.3	58.5	62.7
87.5°	0.0	0.0	0.0	0.0	1.4	2.8	4.2	7.0	12.5	13.9	15.3
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°	4220.2	4220.2	4220.2	4220.2	4220.2	4220.2	4220.2	4220.2	4220.2	4220.2	4220.2
2.5°	4248.0	4229.9	4260.6	4281.4	4300.9	4280.1	4273.1	4255.0	4252.2	4252.2	4262.0
5°	4287.0	4274.5	4306.5	4319.0	4317.6	4271.7	4243.8	4207.6	4189.5	4189.5	4192.3
7.5°	4356.6	4349.7	4367.8	4348.3	4303.7	4210.4	4118.5	4042.0	3990.4	3964.0	3972.3
10°	4472.2	4463.8	4448.5	4376.1	4248.0	4054.5	3866.5	3727.3	3643.8	3596.4	3599.2
12.5°	4585.0	4571.0	4516.7	4356.6	4093.5	3785.8	3539.3	3383.4	3291.5	3235.8	3223.3
15°	4708.9	4672.7	4555.7	4256.4	3841.5	3457.2	3199.6	3031.1	2932.3	2898.9	2897.5
17.5°	4827.2	4763.2	4551.6	4078.2	3539.3	3113.3	2854.3	2749.9	2733.2	2748.5	2752.7
20°	4947.0	4843.9	4505.6	3831.7	3180.1	2770.8	2637.1	2680.3	2742.9	2784.7	2794.4
22.5°	5070.9	4910.8	4401.2	3514.3	2801.4	2539.6	2595.3	2690.0	2768.0	2823.7	2829.2
25°	5210.1	4973.4	4245.2	3125.8	2497.9	2475.6	2585.6	2685.8	2769.4	2833.4	2844.5
27.5°	5289.5	4974.8	4026.6	2726.2	2358.6	2450.5	2561.9	2656.6	2740.1	2809.7	2822.3
30°	5367.5	4937.2	3680.0	2401.8	2318.2	2421.3	2521.5	2609.2	2688.6	2756.8	2772.1
32.5°	5477.5	4902.4	3280.4	2215.2	2294.6	2393.4	2475.6	2553.5	2614.8	2645.4	2653.8
35°	5613.9	4857.9	2855.7	2134.5	2279.3	2371.2	2443.6	2485.3	2406.0	2389.3	2407.4
37.5°	5804.7	4816.1	2432.4	2099.6	2269.5	2362.8	2426.8	2319.6	2222.2	2183.2	2197.1
40°	6010.7	4792.4	2145.6	2071.8	2273.7	2371.2	2357.2	2198.5	2057.9	1975.7	1972.9
42.5°	6186.2	4756.2	1961.8	2053.7	2284.8	2403.2	2262.6	2091.3	1882.4	1833.7	1835.1
45°	6304.5	4664.3	1864.3	2034.2	2294.6	2410.1	2218.0	1943.7	1794.7	1764.1	1762.7
47.5°	6353.2	4497.3	1801.7	2003.6	2293.2	2353.1	2127.5	1882.4	1733.5	1725.1	1730.7
50°	6321.2	4223.0	1737.6	1943.7	2259.8	2293.2	2023.1	1828.1	1691.7	1737.6	1771.1
52.5°	6202.9	3867.9	1661.1	1861.6	2199.9	2225.0	1970.2	1794.7	1661.1	1722.3	1748.8
55°	6172.2	3579.7	1563.6	1754.3	2110.8	2103.8	1914.5	1778.0	1640.2	1616.5	1620.7
57.5°	6131.9	3298.5	1402.1	1562.2	1885.2	1896.4	1861.6	1758.5	1585.9	1578.9	1585.9
60°	5327.1	2528.5	1250.3	1347.8	1548.3	1608.2	1801.7	1722.3	1498.2	1468.9	1467.5
62.5°	3479.5	1531.6	1112.5	1175.1	1261.5	1331.1	1643.0	1617.9	1402.1	1384.0	1396.5
65°	1871.3	1091.6	1012.2	1049.8	1097.2	1150.1	1361.7	1441.1	1267.0	1203.0	1204.4
67.5°	956.5	928.7	937.0	963.5	999.7	1026.2	1098.6	1168.2	1080.5	1026.2	1024.8
70°	818.7	841.0	853.5	868.8	892.5	888.3	895.3	907.8	900.8	874.4	873.0
72.5°	697.6	732.4	735.2	737.9	746.3	726.8	714.3	693.4	694.8	699.0	700.3
75°	530.5	563.9	572.3	568.1	576.4	551.4	534.7	513.8	488.7	484.5	487.3
77.5°	345.3	371.8	384.3	381.5	385.7	366.2	357.8	335.6	306.3	295.2	295.2
80°	208.9	224.2	233.9	236.7	240.9	227.0	213.0	193.5	181.0	168.5	168.5
82.5°	126.7	136.4	143.4	143.4	147.6	132.3	121.1	107.2	101.6	90.5	90.5
85°	64.0	71.0	73.8	72.4	69.6	57.1	52.9	45.9	43.2	37.6	37.6
87.5°	15.3	19.5	19.5	13.9	13.9	7.0	4.2	1.4	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)