

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: P636301

Luminaire Tested: GWS-SA3F-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636301  
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-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

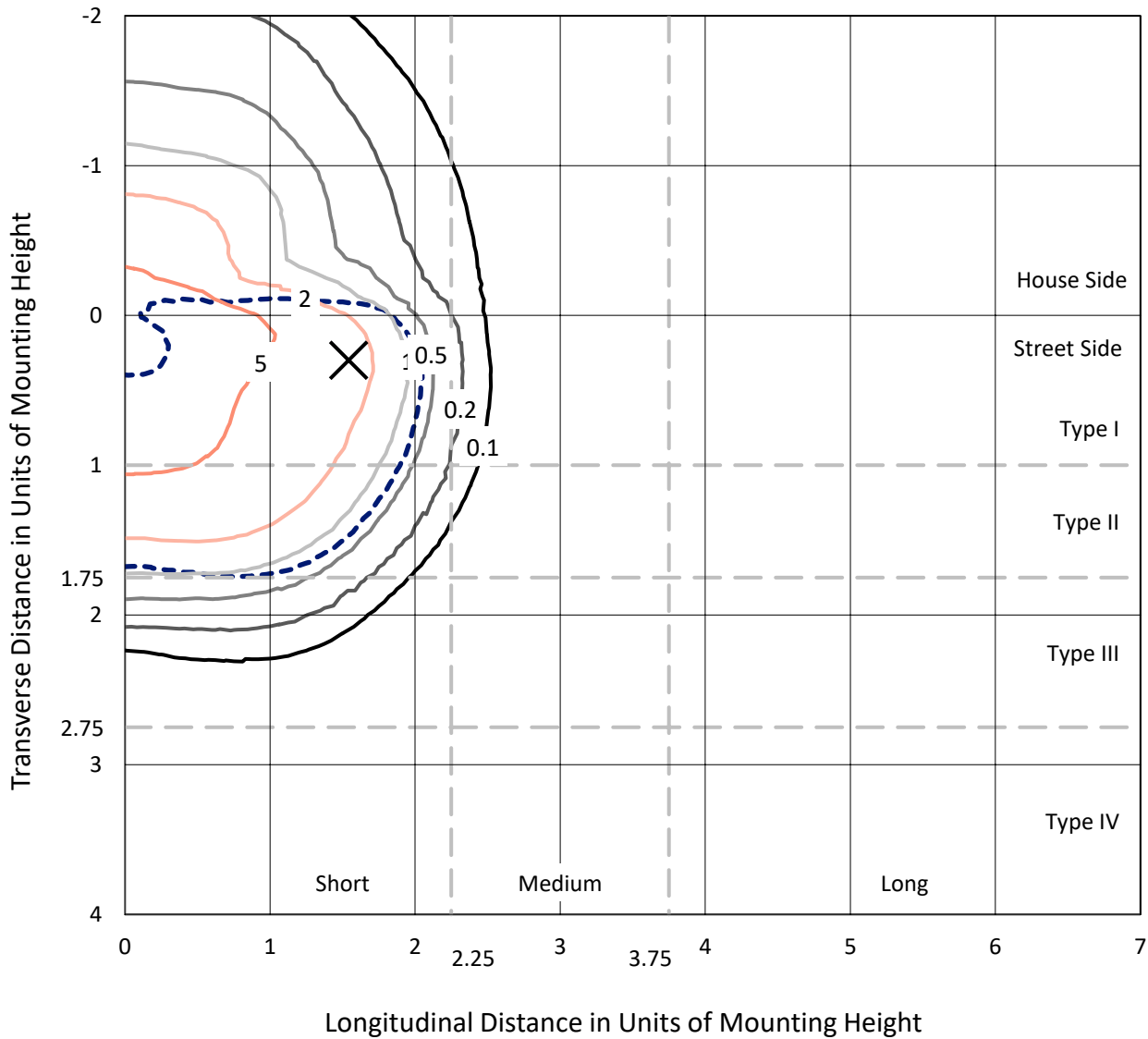
Lumens per Lamp: N/A  
Luminaire Lumens: 21436.7 lumens  
Efficiency: N/A  
Efficacy: 117.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

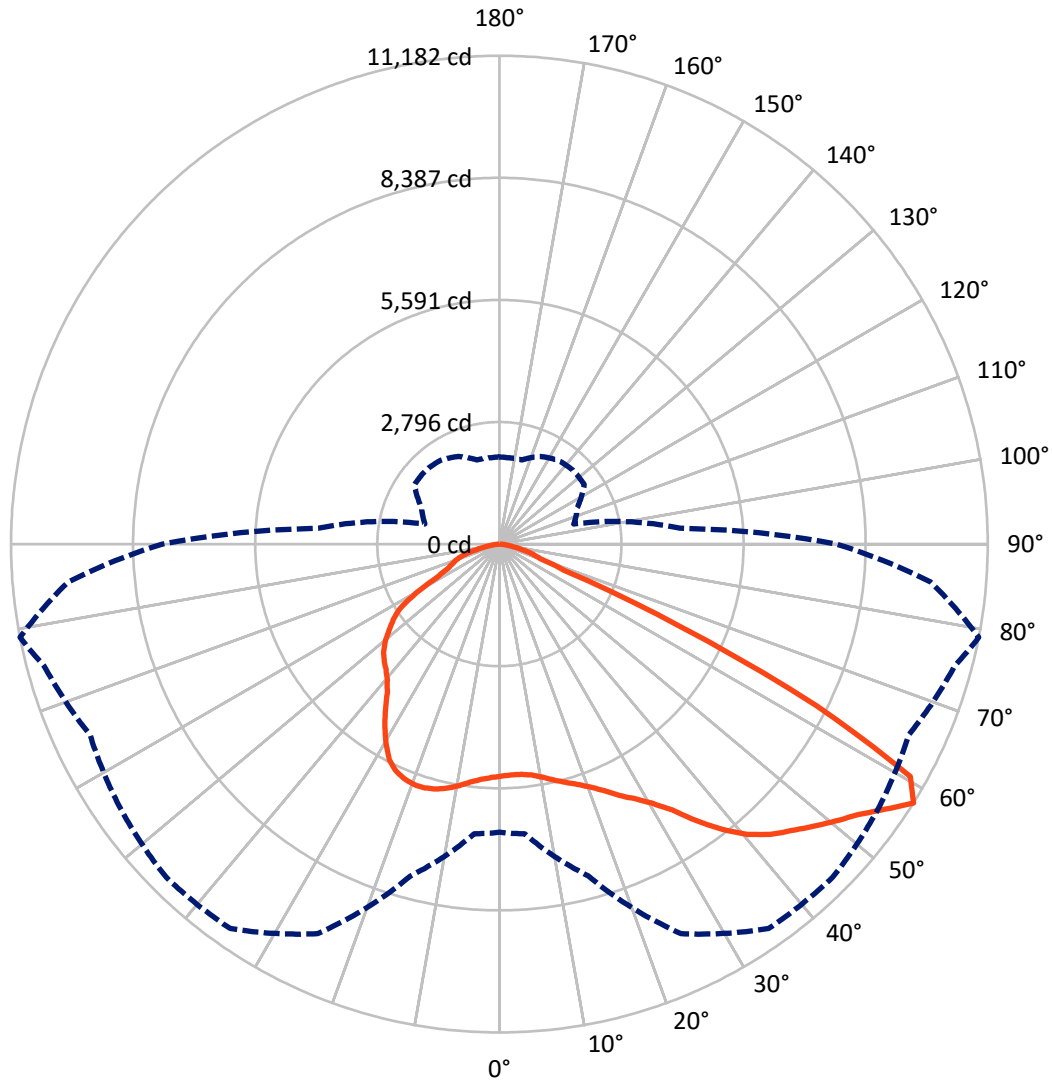
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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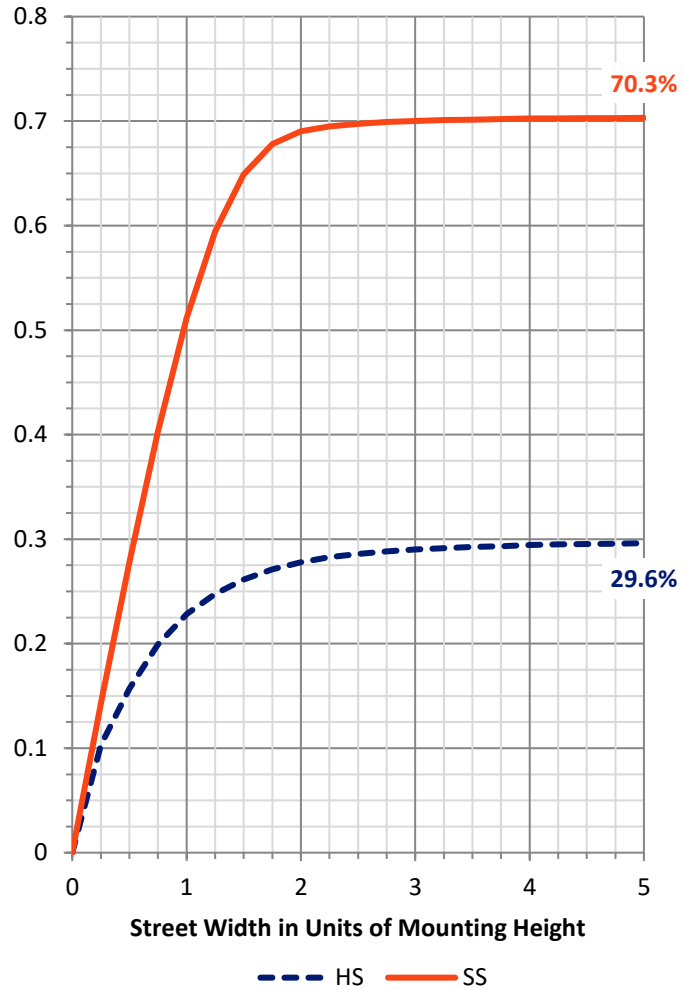
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6372.1	0.0	6372.1
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	15064.6	0.0	15064.6
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	21436.7	0.0	21436.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	492.0	2.3
10°-20°	1367.2	6.4
20°-30°	2317.5	10.8
30°-40°	3547.2	16.5
40°-50°	4729.9	22.1
50°-60°	5462.7	25.5
60°-70°	2838.6	13.2
70°-80°	603.4	2.8
80°-90°	78.2	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°	21436.7	100.0
0°-180°	21436.7	100.0

**Coefficient of Utilization**



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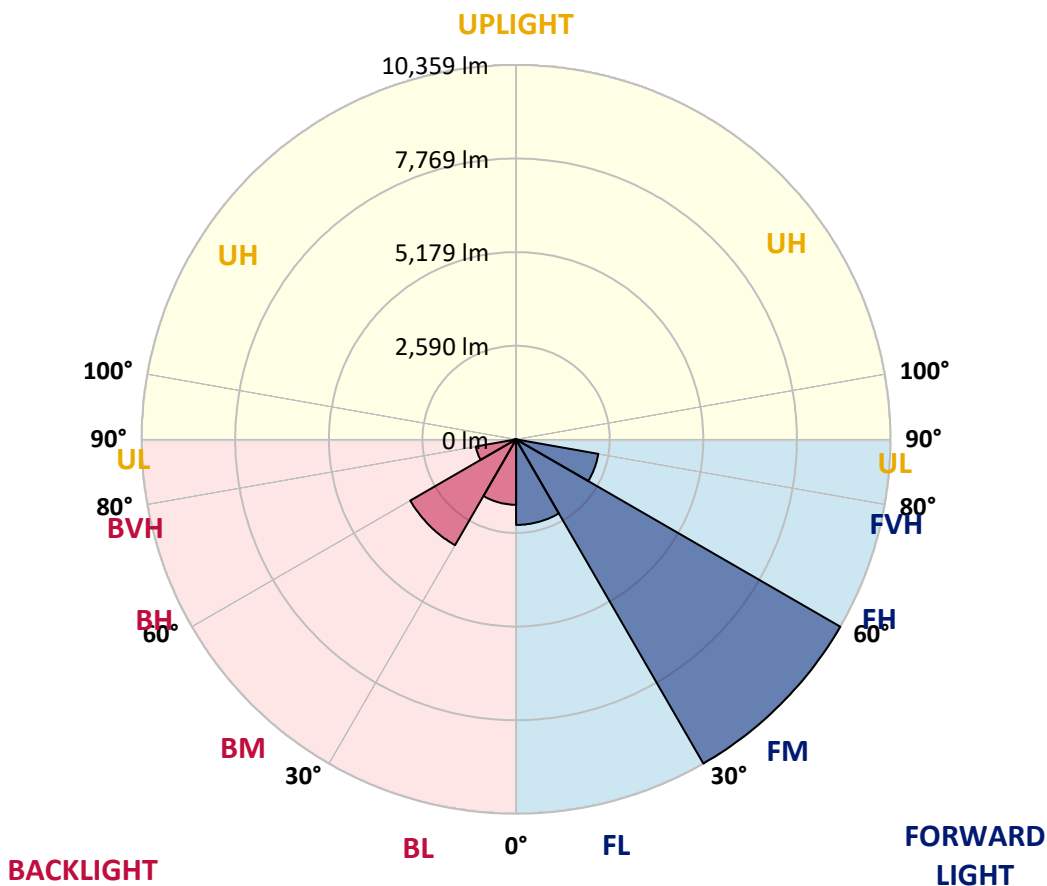
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2367.1	11.0			
FM (30°-60°)	10358.8	48.3			
FH (60°-80°)	2311.4	10.8			G2/5000
FVH (80°-90°)	27.2	0.1			G1/100
BL (0°-30°)	1809.6	8.4	B3/2500		
BM (30°-60°)	3381.0	15.8	B3/5000		
BH (60°-80°)	1130.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	50.9	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°	75°	79°	85°
0°	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5
2.5°	5070.6	5060.1	5063.6	5077.6	5130.2	5168.8	5209.1	5245.9	5281.0	5291.5	5300.2
5°	4890.1	4870.8	4876.1	4898.9	4960.2	5025.1	5096.9	5184.6	5268.7	5296.7	5333.5
7.5°	4762.2	4758.6	4767.4	4802.5	4867.3	4928.7	5021.6	5146.0	5291.5	5338.8	5403.7
10°	4592.1	4585.1	4620.2	4692.0	4799.0	4897.1	5007.5	5154.8	5358.1	5428.2	5528.1
12.5°	4457.2	4453.7	4490.5	4590.4	4727.1	4883.1	5035.6	5200.3	5447.5	5543.9	5666.6
15°	4536.1	4520.3	4522.0	4592.1	4714.8	4898.9	5105.7	5282.7	5536.9	5659.5	5817.3
17.5°	4765.7	4737.6	4716.6	4728.9	4799.0	4990.0	5212.6	5393.1	5640.3	5784.0	5976.8
20°	5082.9	5067.1	5009.3	4970.7	4986.5	5154.8	5380.9	5549.1	5775.2	5936.5	6143.3
22.5°	5508.8	5470.3	5391.4	5330.0	5282.7	5414.2	5622.7	5768.2	5962.8	6131.0	6346.6
25°	6036.4	5980.3	5855.9	5759.5	5657.8	5792.8	5978.5	6089.0	6220.4	6376.4	6581.5
27.5°	6574.5	6527.1	6388.7	6259.0	6132.8	6216.9	6437.8	6500.9	6486.8	6600.8	6776.0
30°	7147.6	7088.0	6956.6	6816.3	6653.3	6707.7	6905.7	6937.3	6788.3	6883.0	7002.1
32.5°	7752.3	7694.5	7580.5	7417.5	7233.5	7254.5	7308.9	7338.7	7196.7	7251.0	7342.2
35°	8367.5	8313.2	8197.5	8036.2	7901.3	7773.3	7636.6	7755.8	7673.4	7778.6	7771.6
37.5°	8930.1	8875.8	8803.9	8679.5	8448.1	8195.7	7880.3	8027.5	8155.4	8288.6	8265.9
40°	9310.5	9273.7	9291.2	9271.9	8974.0	8474.4	7999.4	8160.7	8509.5	8737.3	8725.1
42.5°	9638.2	9601.4	9703.1	9776.7	9426.2	8732.1	8057.3	8211.5	8735.6	9091.4	9073.9
45°	9783.7	9773.2	9941.5	10174.6	9839.8	9005.5	8206.3	8316.7	8907.3	9363.1	9296.5
47.5°	9610.2	9647.0	9978.3	10372.6	10183.3	9329.8	8511.2	8539.3	9131.7	9657.5	9470.0
50°	9264.9	9345.5	9792.5	10377.9	10434.0	9696.1	8933.6	8863.5	9433.2	9971.3	9561.1
52.5°	8761.9	8846.0	9575.1	10337.6	10577.7	10120.2	9496.3	9396.4	9813.5	10285.0	9576.9
55°	7606.8	7720.8	9077.4	10246.4	10717.9	10505.8	10130.8	9927.4	10304.3	10716.2	9732.9
57.5°	6599.0	6658.6	7864.5	9841.6	10746.0	10789.8	10583.0	10341.1	10791.5	11182.4	9908.2
60°	4842.8	4856.8	5941.7	8143.2	9885.4	10625.0	10546.1	10186.8	10560.2	10809.1	9105.4
62.5°	2736.0	2737.8	3603.6	5435.2	7384.2	8660.2	8709.3	8392.0	8078.3	8151.9	6337.9
65°	1027.1	1123.5	1645.8	2671.2	4257.4	5112.7	5316.0	5389.6	4867.3	4543.1	3398.5
67.5°	687.1	709.9	960.5	1374.1	1894.7	2187.4	2446.8	2453.8	1794.8	1600.2	1339.1
70°	524.1	546.9	755.4	983.3	960.5	886.9	958.7	932.4	964.0	990.3	1018.3
72.5°	390.9	413.6	585.4	694.1	576.6	567.9	643.3	715.1	781.7	809.8	853.6
75°	259.4	276.9	394.4	371.6	319.0	376.8	469.7	541.6	580.2	613.5	646.8
77.5°	164.8	177.0	210.3	170.0	177.0	220.8	273.4	338.3	375.1	408.4	425.9
80°	75.4	73.6	71.9	80.6	99.9	129.7	164.8	203.3	231.4	245.4	255.9
82.5°	29.8	33.3	36.8	43.8	54.3	70.1	92.9	119.2	142.0	145.5	154.2
85°	12.3	14.0	15.8	19.3	24.5	31.5	38.6	54.3	68.4	73.6	78.9
87.5°	0.0	0.0	0.0	0.0	1.8	3.5	5.3	8.8	15.8	17.5	19.3
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°	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5
2.5°	5347.6	5324.8	5363.3	5389.6	5414.2	5387.9	5379.1	5356.3	5352.8	5352.8	5365.1
5°	5396.6	5380.9	5421.2	5437.0	5435.2	5377.4	5342.3	5296.7	5273.9	5273.9	5277.5
7.5°	5484.3	5475.5	5498.3	5473.8	5417.7	5300.2	5184.6	5088.2	5023.3	4990.0	5000.5
10°	5629.8	5619.2	5600.0	5508.8	5347.6	5103.9	4867.3	4692.0	4586.9	4527.3	4530.8
12.5°	5771.7	5754.2	5685.8	5484.3	5153.0	4765.7	4455.4	4259.1	4143.4	4073.3	4057.6
15°	5927.7	5882.1	5734.9	5358.1	4835.8	4352.0	4027.8	3815.7	3691.2	3649.2	3647.4
17.5°	6076.7	5996.1	5729.7	5133.7	4455.4	3919.1	3593.1	3461.6	3440.6	3459.9	3465.1
20°	6227.4	6097.7	5671.8	4823.5	4003.2	3487.9	3319.7	3374.0	3452.9	3505.5	3517.7
22.5°	6383.4	6181.9	5540.4	4423.9	3526.5	3197.0	3267.1	3386.3	3484.4	3554.5	3561.5
25°	6558.7	6260.7	5344.1	3934.9	3144.4	3116.3	3254.8	3381.0	3486.2	3566.8	3580.8
27.5°	6658.6	6262.5	5068.9	3431.8	2969.1	3084.8	3225.0	3344.2	3449.4	3537.0	3552.8
30°	6756.8	6215.2	4632.5	3023.5	2918.3	3048.0	3174.2	3284.6	3384.5	3470.4	3489.7
32.5°	6895.2	6171.3	4129.4	2788.6	2888.5	3012.9	3116.3	3214.5	3291.6	3330.2	3340.7
35°	7067.0	6115.3	3594.8	2686.9	2869.2	2984.9	3076.0	3128.6	3028.7	3007.7	3030.5
37.5°	7307.1	6062.7	3062.0	2643.1	2856.9	2974.4	3055.0	2920.0	2797.3	2748.3	2765.8
40°	7566.5	6032.9	2700.9	2608.1	2862.2	2984.9	2967.4	2767.6	2590.5	2487.1	2483.6
42.5°	7787.4	5987.3	2469.6	2585.3	2876.2	3025.2	2848.2	2632.6	2369.7	2308.3	2310.1
45°	7936.3	5871.6	2346.9	2560.7	2888.5	3034.0	2792.1	2446.8	2259.3	2220.7	2219.0
47.5°	7997.7	5661.3	2268.0	2522.2	2886.7	2962.1	2678.2	2369.7	2182.1	2171.6	2178.6
50°	7957.4	5316.0	2187.4	2446.8	2844.7	2886.7	2546.7	2301.3	2129.6	2187.4	2229.5
52.5°	7808.4	4869.1	2091.0	2343.4	2769.3	2800.9	2480.1	2259.3	2091.0	2168.1	2201.4
55°	7769.8	4506.3	1968.3	2208.4	2657.1	2648.4	2410.0	2238.2	2064.7	2034.9	2040.2
57.5°	7719.0	4152.2	1765.0	1966.6	2373.2	2387.2	2343.4	2213.7	1996.4	1987.6	1996.4
60°	6705.9	3182.9	1573.9	1696.6	1949.0	2024.4	2268.0	2168.1	1885.9	1849.1	1847.4
62.5°	4380.1	1928.0	1400.4	1479.3	1588.0	1675.6	2068.2	2036.7	1765.0	1742.2	1758.0
65°	2355.7	1374.1	1274.2	1321.6	1381.1	1447.8	1714.2	1814.1	1595.0	1514.4	1516.1
67.5°	1204.1	1169.1	1179.6	1212.9	1258.5	1291.8	1382.9	1470.5	1360.1	1291.8	1290.0
70°	1030.6	1058.6	1074.4	1093.7	1123.5	1118.2	1127.0	1142.8	1134.0	1100.7	1099.0
72.5°	878.1	921.9	925.4	928.9	939.5	914.9	899.1	872.9	874.6	879.9	881.6
75°	667.8	709.9	720.4	715.1	725.6	694.1	673.0	646.8	615.2	609.9	613.5
77.5°	434.7	468.0	483.8	480.2	485.5	461.0	450.5	422.4	385.6	371.6	371.6
80°	262.9	282.2	294.5	298.0	303.2	285.7	268.2	243.6	227.9	212.1	212.1
82.5°	159.5	171.8	180.5	180.5	185.8	166.5	152.5	135.0	127.9	113.9	113.9
85°	80.6	89.4	92.9	91.1	87.6	71.9	66.6	57.8	54.3	47.3	47.3
87.5°	19.3	24.5	24.5	17.5	17.5	8.8	5.3	1.8	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)