

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: P638823

Luminaire Tested: GWS-SA4F-750-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638823  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-750-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

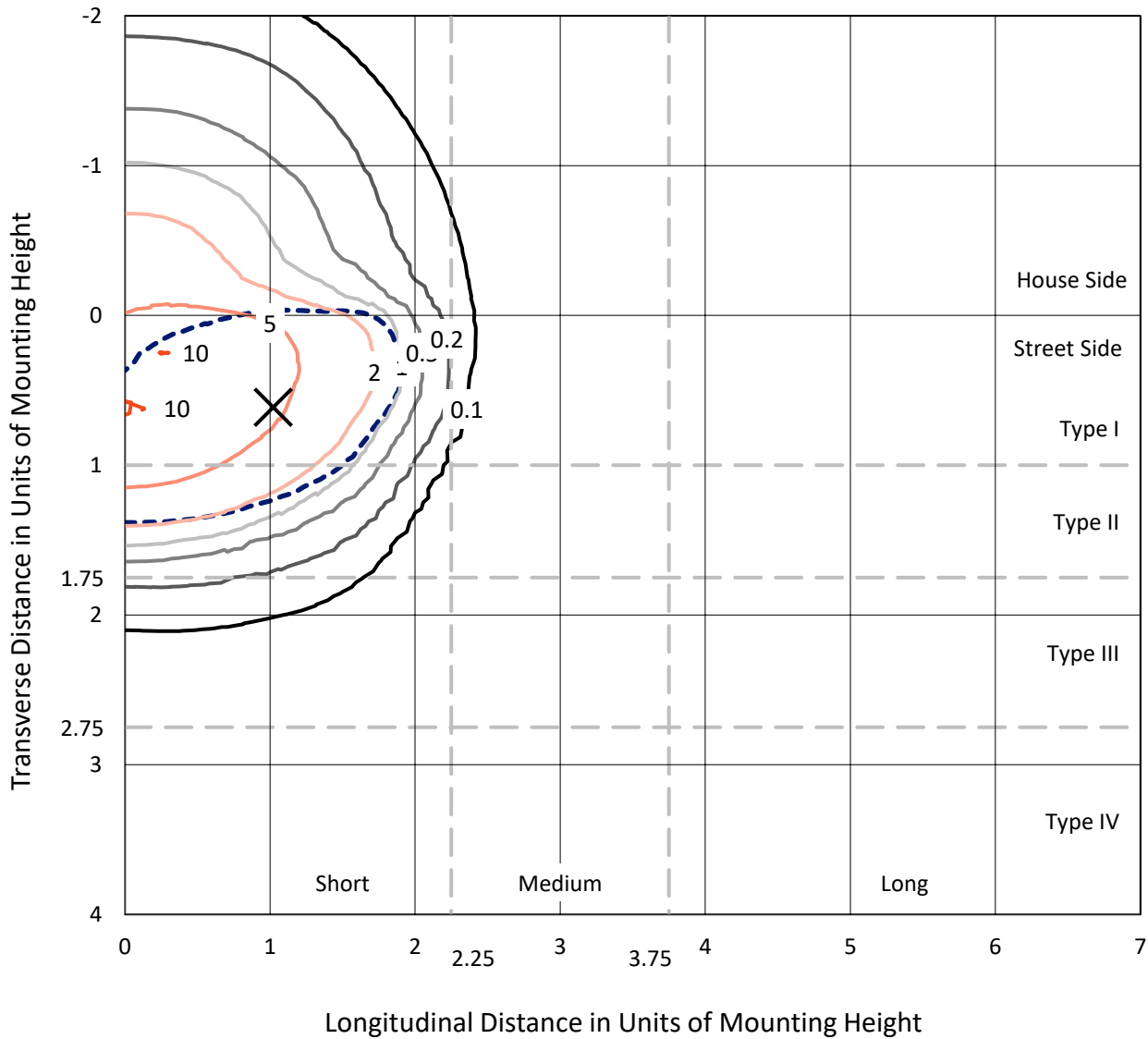
Lumens per Lamp: N/A  
Luminaire Lumens: 30631.3 lumens  
Efficiency: N/A  
Efficacy: 136.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

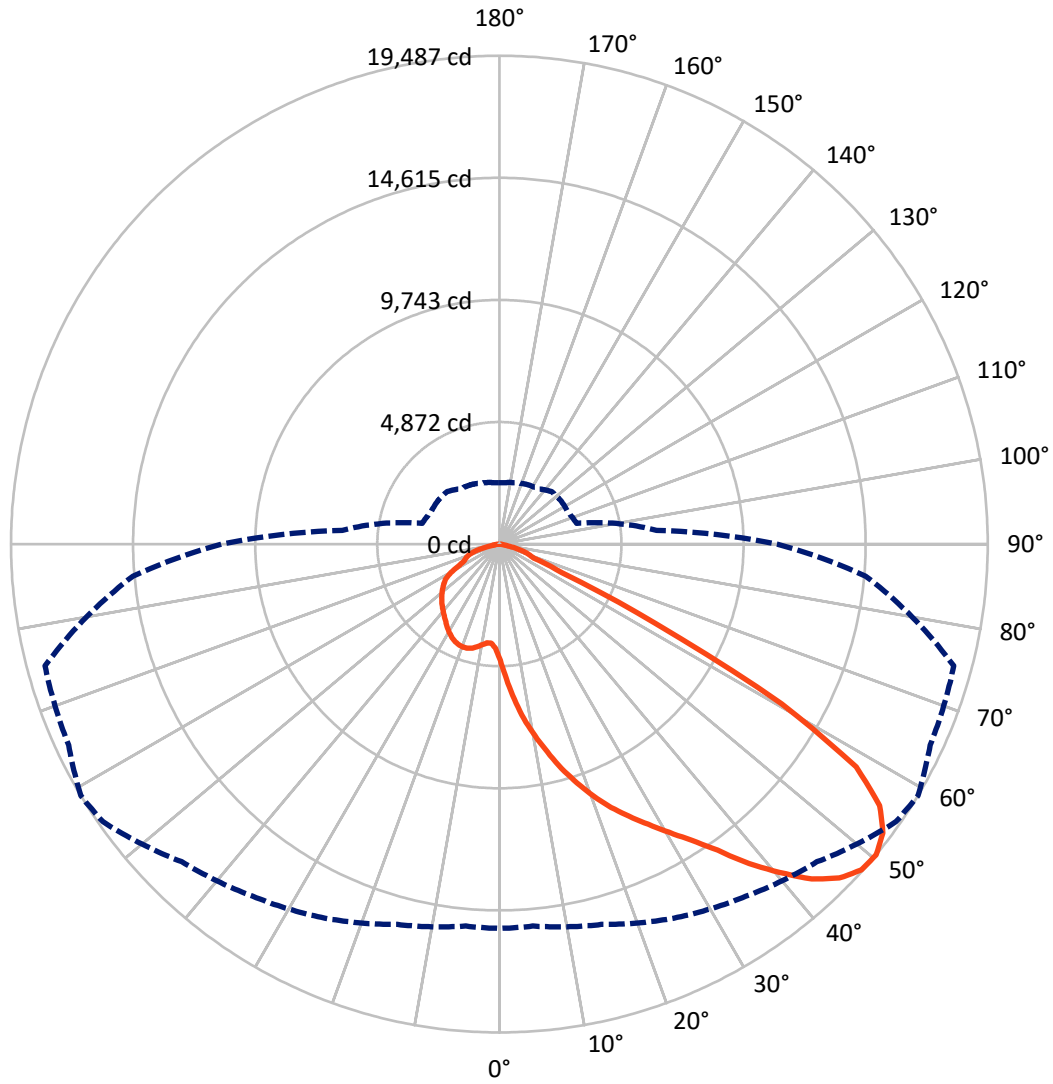
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7045.8	0.0	7045.8
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	23585.5	0.0	23585.5
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	30631.3	0.0	30631.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	520.6	1.7
10°-20°	1890.0	6.2
20°-30°	3578.8	11.7
30°-40°	5934.8	19.4
40°-50°	8107.2	26.5
50°-60°	7359.3	24.0
60°-70°	2450.7	8.0
70°-80°	714.8	2.3
80°-90°	75.1	0.2
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°	30631.3	100.0
0°-180°	30631.3	100.0

**Coefficient of Utilization**



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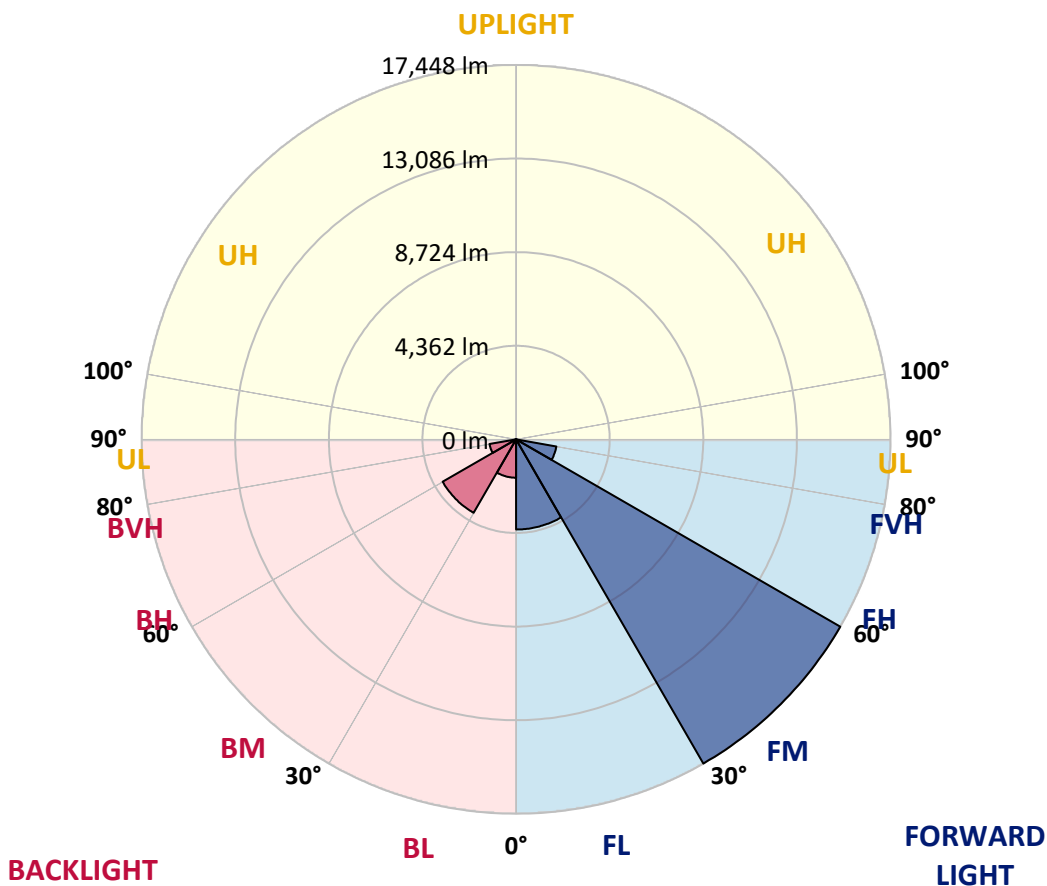
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4200.3	13.7			
FM (30°-60°)	17448.0	57.0			
FH (60°-80°)	1907.9	6.2			G2/5000
FVH (80°-90°)	29.4	0.1			G1/100
BL (0°-30°)	1789.1	5.8	B3/2500		
BM (30°-60°)	3953.4	12.9	B3/5000		
BH (60°-80°)	1257.6	4.1	B3/2500		G3/2500
BVH (80°-90°)	45.7	0.1			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°	59°	65°	75°	85°
0°	4640.9	4640.9	4640.9	4640.9	4640.9	4640.9	4640.9	4640.9	4640.9	4640.9	4640.9
2.5°	6013.2	6058.1	5988.2	5993.2	5818.5	5738.7	5514.1	5381.9	5294.6	5050.1	4828.0
5°	7225.8	7173.4	7118.5	7086.0	6933.8	6719.3	6439.8	6217.8	6013.2	5534.1	5072.5
7.5°	7969.3	7941.9	7904.4	7884.5	7734.8	7510.2	7230.8	7041.1	6744.2	6095.5	5369.4
10°	8600.6	8568.1	8545.7	8560.6	8438.4	8293.7	7989.3	7772.2	7437.8	6689.3	5728.7
12.5°	9089.6	9107.1	9114.5	9194.4	9142.0	9054.7	8740.3	8510.7	8139.0	7315.6	6150.4
15°	9476.3	9471.3	9558.7	9710.9	9795.7	9740.8	9488.8	9296.7	8842.6	7931.9	6604.5
17.5°	9566.2	9571.1	9708.4	9975.4	10252.3	10387.0	10244.8	10015.3	9566.2	8540.7	7076.1
20°	9638.5	9648.5	9790.7	10095.1	10499.3	10876.1	10898.5	10733.9	10347.1	9199.4	7555.1
22.5°	10095.1	10117.6	10155.0	10347.1	10711.4	11188.0	11449.9	11415.0	11090.7	9890.5	8071.6
25°	11295.3	11227.9	11045.7	10990.9	11130.6	11517.3	11963.9	12031.3	11871.6	10651.5	8628.0
27.5°	12777.3	12705.0	12435.5	12151.1	11849.2	11983.9	12460.5	12662.6	12665.1	11489.9	9186.9
30°	14122.2	14064.8	13845.2	13438.5	12917.1	12722.4	13074.2	13346.2	13508.4	12458.0	9823.2
32.5°	15272.4	15220.0	14923.1	14591.3	14082.3	13690.5	13817.8	14079.8	14459.0	13710.5	10614.1
35°	16240.5	16188.1	15903.7	15569.3	15097.8	14863.2	14818.3	14998.0	15489.5	15017.9	11522.3
37.5°	17026.5	16974.1	16677.1	16362.8	16003.5	16018.4	16085.8	16173.1	16455.1	16417.7	12492.9
40°	17535.5	17480.6	17268.5	17043.9	16816.9	16996.5	17330.9	17226.1	17375.8	17547.9	13386.1
42.5°	17762.5	17692.6	17570.4	17520.5	17450.6	17730.1	18373.8	18269.0	18089.4	18301.5	14049.8
45°	17535.5	17475.6	17473.1	17625.3	17787.5	18146.8	19094.9	19010.1	18555.9	18665.7	14446.5
47.5°	16839.3	16786.9	16929.2	17328.4	17727.6	18251.5	19416.8	19431.7	18887.8	18817.9	14703.5
50°	15334.8	15299.9	15711.6	16467.6	17156.2	17924.7	19314.5	19486.6	18967.6	18770.5	14671.1
52.5°	12275.8	12438.0	13333.7	14596.2	15933.6	17350.8	18935.2	19159.8	18583.4	18458.6	14496.4
55°	8403.4	8478.3	9374.0	11217.9	13338.7	16108.3	18064.4	18411.2	18129.3	18406.2	14678.6
57.5°	4351.4	4411.3	5117.4	6754.2	9047.2	12729.9	15646.7	16784.4	17213.6	18670.7	15245.0
60°	1786.5	1836.4	2128.3	2919.2	4563.5	7412.9	11260.3	12947.0	13955.0	17051.4	13538.3
62.5°	1297.4	1322.4	1462.1	1741.6	2390.3	3632.8	6372.4	6993.7	7702.3	10686.5	8595.6
65°	1092.8	1120.3	1232.6	1402.2	1744.1	2228.1	2722.1	2737.1	3016.6	4353.9	3186.2
67.5°	915.7	940.6	1040.5	1185.2	1409.7	1581.9	1462.1	1464.6	1459.6	1579.4	1527.0
70°	713.6	733.6	833.4	988.1	1105.3	1015.5	1142.7	1265.0	1212.6	1260.0	1332.4
72.5°	521.5	543.9	631.3	748.5	718.6	723.6	925.7	1050.4	1020.5	1072.9	1140.3
75°	376.8	391.7	436.6	374.3	394.2	476.6	651.2	718.6	748.5	793.4	853.3
77.5°	122.3	122.3	137.2	172.2	214.6	264.5	331.8	359.3	404.2	454.1	496.5
80°	62.4	64.9	77.3	94.8	119.8	152.2	194.6	207.1	229.5	257.0	274.5
82.5°	29.9	32.4	37.4	47.4	62.4	79.8	107.3	119.8	134.7	152.2	164.7
85°	7.5	7.5	10.0	15.0	20.0	29.9	39.9	47.4	59.9	72.4	79.8
87.5°	0.0	0.0	0.0	0.0	0.0	2.5	7.5	10.0	12.5	15.0	20.0
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°	4640.9	4640.9	4640.9	4640.9	4640.9	4640.9	4640.9	4640.9	4640.9	4640.9	4640.9
2.5°	4728.2	4588.5	4408.8	4256.6	4116.9	4009.6	3917.3	3872.4	3830.0	3800.0	3810.0
5°	4857.9	4618.4	4284.1	4052.0	3909.8	3837.4	3787.5	3762.6	3757.6	3737.6	3730.2
7.5°	5047.6	4705.7	4259.1	4024.6	3929.8	3892.3	3864.9	3849.9	3857.4	3837.4	3830.0
10°	5282.1	4850.4	4321.5	4114.4	4032.1	4004.6	3974.7	3954.7	3944.7	3914.8	3909.8
12.5°	5574.0	5030.1	4433.8	4229.2	4146.8	4099.4	4059.5	4024.6	4002.1	3964.7	3954.7
15°	5888.4	5229.7	4566.0	4341.4	4244.1	4174.3	4109.4	4057.0	4017.1	3967.2	3959.7
17.5°	6230.2	5439.3	4675.8	4418.8	4294.0	4201.7	4106.9	4029.6	3974.7	3909.8	3902.3
20°	6587.0	5651.4	4758.1	4456.2	4296.5	4171.8	4044.5	3942.2	3872.4	3807.5	3802.5
22.5°	6956.3	5846.0	4808.0	4446.2	4256.6	4101.9	3949.7	3834.9	3752.6	3675.3	3670.3
25°	7328.1	6033.1	4820.5	4406.3	4176.8	3997.1	3844.9	3710.2	3617.9	3530.5	3520.6
27.5°	7704.8	6190.3	4790.6	4326.5	4069.5	3874.9	3722.7	3590.4	3495.6	3408.3	3393.3
30°	8106.5	6325.0	4725.7	4221.7	3944.7	3745.1	3595.4	3495.6	3405.8	3318.5	3303.5
32.5°	8535.7	6442.3	4633.4	4094.4	3800.0	3615.4	3505.6	3415.8	3325.9	3248.6	3233.6
35°	9047.2	6519.7	4496.1	3929.8	3665.3	3520.6	3445.7	3340.9	3231.1	3146.3	3138.8
37.5°	9576.1	6579.5	4331.5	3772.6	3548.0	3465.7	3403.3	3261.1	3123.8	3021.5	3009.1
40°	10087.6	6629.4	4126.9	3625.4	3440.7	3425.8	3340.9	3163.8	2926.7	2812.0	2802.0
42.5°	10564.2	6644.4	3912.3	3468.2	3343.4	3335.9	3241.1	2966.7	2784.5	2712.2	2702.2
45°	10891.0	6631.9	3690.2	3321.0	3246.1	3206.2	3106.4	2824.4	2712.2	2647.3	2634.8
47.5°	11133.1	6567.1	3440.7	3166.3	3136.3	3081.4	2866.9	2734.6	2629.8	2564.9	2552.5
50°	11090.7	6297.6	3188.7	3016.6	3004.1	2956.7	2692.2	2622.3	2530.0	2460.2	2450.2
52.5°	10871.1	5786.1	2931.7	2851.9	2876.8	2784.5	2567.4	2487.6	2407.8	2327.9	2310.4
55°	10926.0	5416.8	2737.1	2692.2	2737.1	2527.5	2427.7	2342.9	2268.0	2190.7	2175.7
57.5°	11165.5	5052.5	2530.0	2520.0	2567.4	2330.4	2248.1	2140.8	2033.5	1971.1	1971.1
60°	9376.5	3682.7	2165.7	2190.7	2298.0	2170.7	2098.4	1988.6	1871.3	1816.4	1816.4
62.5°	5544.1	2310.4	1796.5	1769.0	1836.4	1916.2	1956.1	1866.3	1726.6	1654.2	1656.7
65°	2442.7	1681.7	1584.4	1561.9	1542.0	1596.9	1706.6	1714.1	1566.9	1482.1	1484.6
67.5°	1504.5	1522.0	1482.1	1464.6	1447.1	1437.2	1427.2	1432.2	1392.3	1314.9	1312.4
70°	1357.3	1404.7	1377.3	1362.3	1339.9	1322.4	1262.5	1165.2	1097.8	1077.9	1100.3
72.5°	1167.7	1232.6	1217.6	1210.1	1182.7	1140.3	1060.4	965.6	885.8	835.9	845.8
75°	880.8	933.2	940.6	943.1	913.2	873.3	790.9	711.1	641.2	588.8	601.3
77.5°	506.5	536.4	543.9	551.4	529.0	514.0	459.1	401.7	364.3	309.4	324.4
80°	281.9	294.4	294.4	296.9	284.4	267.0	229.5	197.1	179.6	154.7	157.2
82.5°	169.7	174.7	177.2	179.6	172.2	154.7	127.2	104.8	94.8	82.3	79.8
85°	82.3	87.3	87.3	89.8	77.3	67.4	52.4	39.9	34.9	25.0	27.4
87.5°	20.0	22.5	22.5	20.0	17.5	12.5	7.5	2.5	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)