

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: P638819

Luminaire Tested: GWS-SA4F-750-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638819  
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-SA4F-750-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

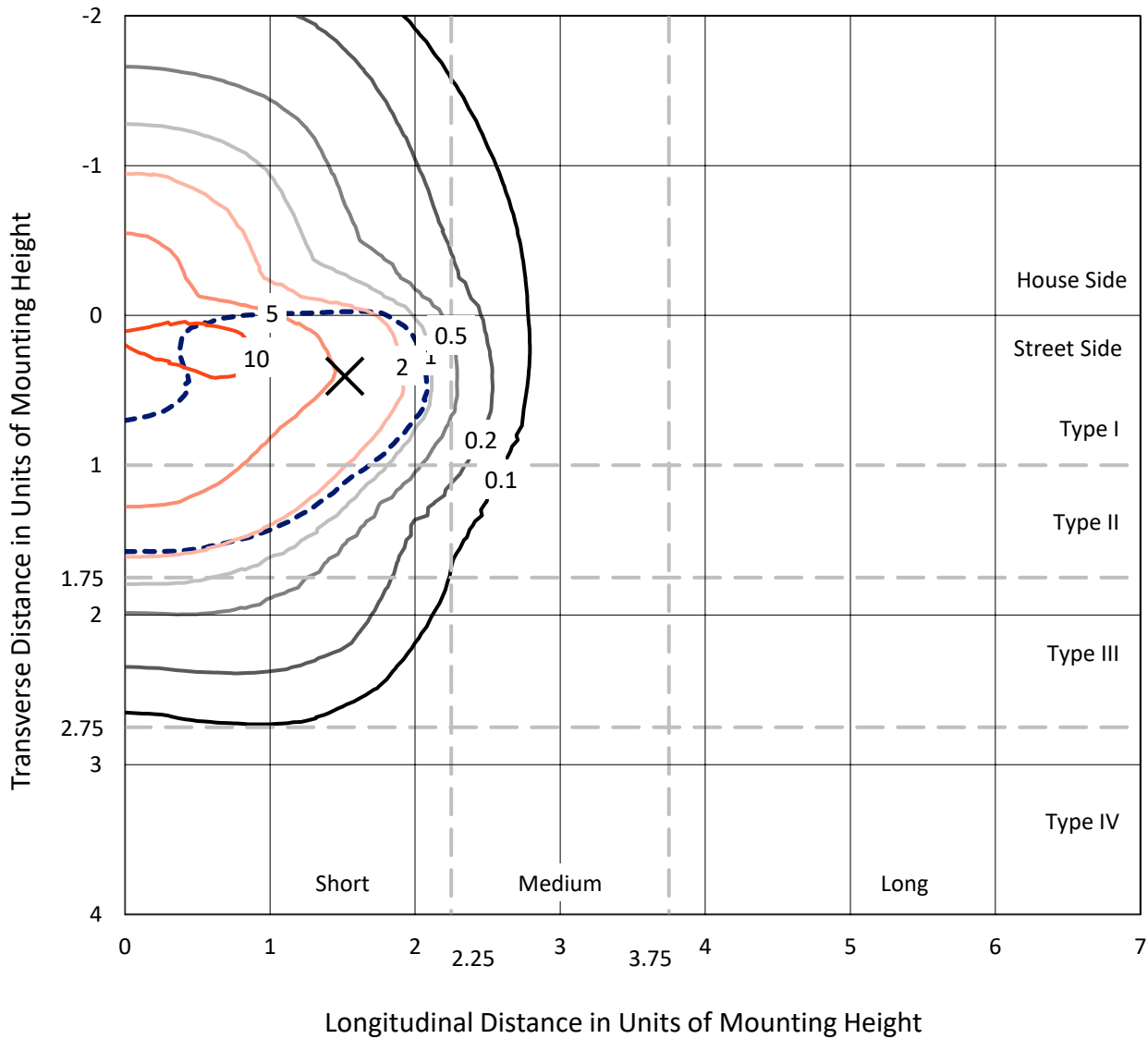
Lumens per Lamp: N/A  
Luminaire Lumens: 29017.1 lumens  
Efficiency: N/A  
Efficacy: 128.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

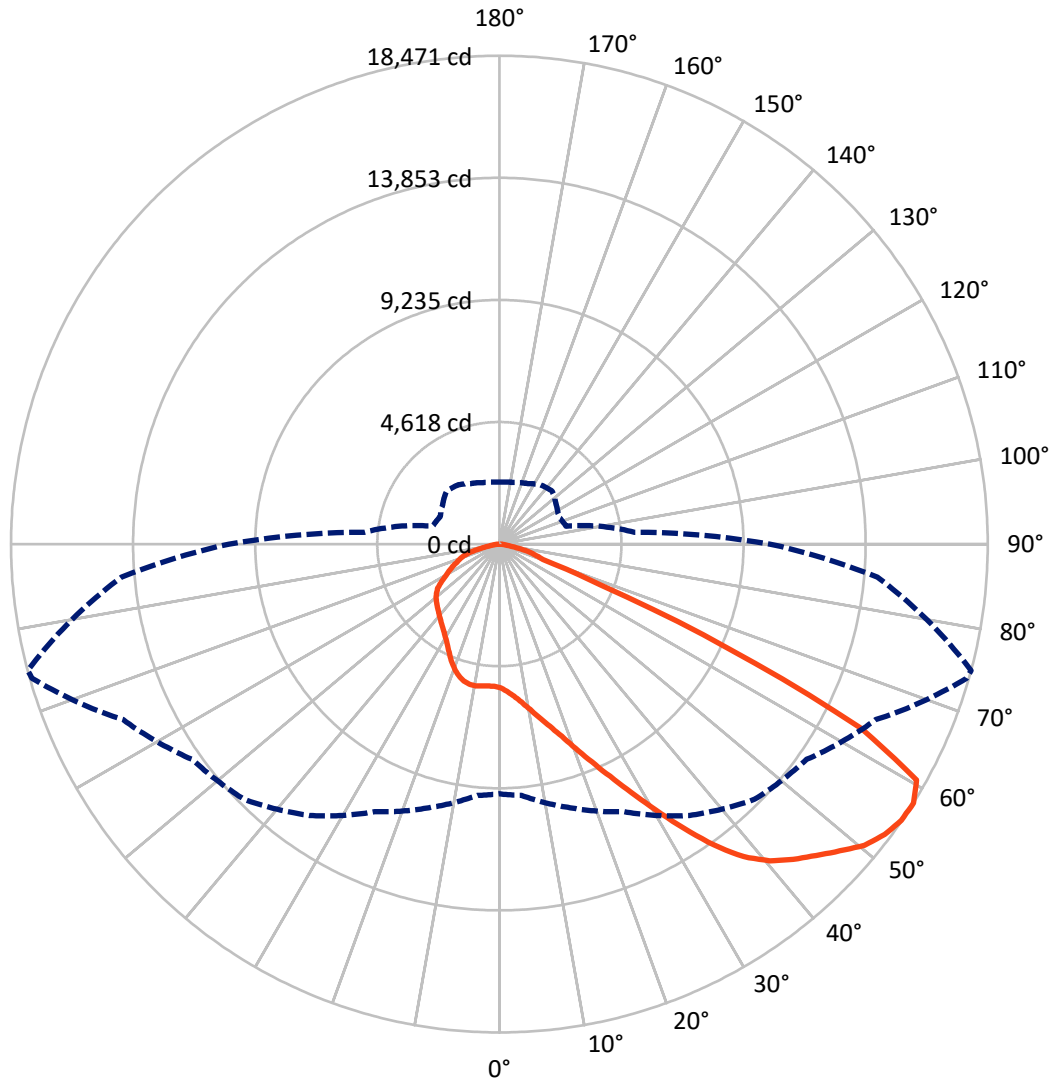
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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	7849.7	0.0	7849.7
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	21167.4	0.0	21167.4
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	29017.1	0.0	29017.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	543.8	1.9
10°-20°	1731.3	6.0
20°-30°	3070.5	10.6
30°-40°	4700.4	16.2
40°-50°	6544.9	22.6
50°-60°	7499.2	25.8
60°-70°	3853.2	13.3
70°-80°	970.1	3.3
80°-90°	103.7	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°	29017.1	100.0
0°-180°	29017.1	100.0

**Coefficient of Utilization**



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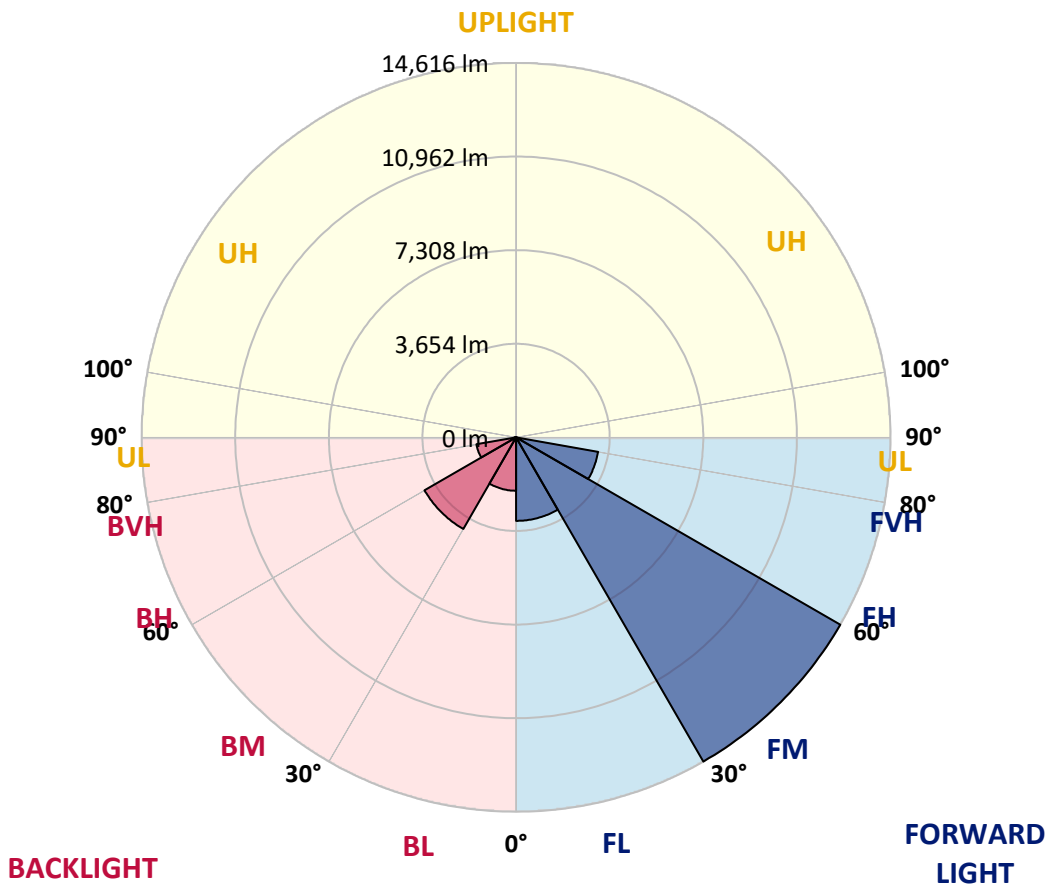
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3260.3	11.2			
FM (30°-60°)	14616.2	50.4			
FH (60°-80°)	3252.5	11.2			G2/5000
FVH (80°-90°)	38.4	0.1			G1/100
BL (0°-30°)	2085.4	7.2	B3/2500		
BM (30°-60°)	4128.2	14.2	B3/5000		
BH (60°-80°)	1570.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	65.3	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°	5434.2	5434.2	5434.2	5434.2	5434.2	5434.2	5434.2	5434.2	5434.2	5434.2	5434.2
2.5°	5838.4	5853.4	5838.4	5863.4	5813.5	5791.0	5736.1	5653.8	5588.9	5578.9	5506.6
5°	6292.5	6324.9	6305.0	6295.0	6227.6	6177.7	6095.4	5930.7	5796.0	5776.0	5633.8
7.5°	6584.4	6606.9	6606.9	6614.4	6589.4	6532.0	6444.7	6250.1	6060.5	6030.5	5815.9
10°	6681.7	6699.2	6731.6	6794.0	6843.9	6861.4	6804.0	6616.9	6384.8	6354.9	6055.5
12.5°	6704.2	6724.1	6774.0	6888.8	7026.0	7150.8	7160.8	7023.5	6764.1	6731.6	6332.4
15°	6746.6	6766.6	6833.9	6976.1	7178.2	7417.8	7565.0	7470.2	7183.2	7148.3	6646.8
17.5°	6741.6	6764.1	6863.9	7053.5	7325.4	7672.3	7956.7	7996.6	7699.7	7639.8	7003.6
20°	6729.1	6749.1	6856.4	7088.4	7425.3	7901.8	8415.8	8622.9	8303.5	8248.6	7420.3
22.5°	6828.9	6851.4	6933.7	7125.8	7477.6	8079.0	8839.9	9339.0	9019.6	8942.2	7899.3
25°	7053.5	7085.9	7135.8	7268.1	7572.5	8236.1	9274.1	10149.8	9823.0	9730.7	8420.8
27.5°	7400.3	7440.2	7510.1	7572.5	7784.5	8435.7	9705.7	11058.0	10731.2	10633.9	8972.2
30°	7824.5	7876.9	7966.7	8009.1	8153.8	8730.2	10174.8	11993.7	11804.1	11669.3	9593.4
32.5°	8410.8	8483.2	8568.0	8580.5	8667.8	9176.8	10638.9	12921.8	12919.3	12824.5	10299.5
35°	9174.3	9251.6	9269.1	9286.6	9329.0	9790.6	11200.3	13767.7	14094.5	13984.7	11068.0
37.5°	10007.6	10119.9	10147.3	10070.0	10129.9	10529.1	11831.5	14446.3	15117.5	15000.2	11811.5
40°	10898.4	10943.3	11018.1	10895.9	10970.7	11374.9	12450.3	14880.4	15881.0	15756.2	12397.9
42.5°	11537.1	11619.4	11731.7	11686.8	11729.2	12098.5	12884.4	15090.0	16424.9	16300.1	12819.5
45°	12230.7	12255.7	12328.0	12318.0	12343.0	12687.3	13196.3	15182.3	16911.4	16799.1	13178.8
47.5°	12834.5	12871.9	12919.3	12864.4	12809.6	13034.1	13450.8	15262.2	17472.8	17338.1	13555.6
50°	13415.9	13448.3	13505.7	13346.0	13141.4	13198.8	13575.5	15372.0	17999.2	17904.4	13852.5
52.5°	13523.1	13558.1	13827.5	13860.0	13598.0	13395.9	13795.1	15614.0	18308.6	18248.8	13959.8
55°	12173.3	12235.7	12772.1	13388.4	14034.6	13969.8	14146.9	15741.2	18430.9	18445.9	14151.9
57.5°	9448.7	9538.6	10322.0	11167.8	12527.6	13652.9	14191.8	15708.8	18388.5	18470.8	14349.0
60°	6197.7	6250.1	7178.2	8126.4	9536.1	11093.0	12702.3	15125.0	18011.7	18129.0	14299.1
62.5°	3742.6	3802.4	4548.5	5267.0	6097.9	7138.3	8615.4	12155.9	15097.5	15359.5	11452.3
65°	2612.3	2692.2	3345.9	3937.2	4224.1	4009.5	4363.8	6789.0	9406.3	9516.1	6998.6
67.5°	1893.7	1948.6	2485.1	3188.7	3505.5	2831.9	2158.2	3006.5	4096.9	4136.8	2886.8
70°	1240.0	1302.4	1788.9	2427.7	2861.8	2295.4	1614.3	1626.8	1724.1	1744.0	1676.7
72.5°	681.1	718.6	1105.3	1611.8	1691.6	1372.3	1260.0	1352.3	1419.7	1419.7	1437.1
75°	351.8	384.2	451.6	531.4	641.2	751.0	908.2	1045.4	1117.8	1122.8	1115.3
77.5°	179.6	192.1	242.0	262.0	286.9	334.3	434.1	556.4	621.3	646.2	641.2
80°	84.8	89.8	102.3	119.8	147.2	187.1	234.5	279.4	319.4	324.4	351.8
82.5°	44.9	49.9	54.9	64.9	79.8	99.8	137.2	164.7	189.6	194.6	217.1
85°	17.5	20.0	22.5	25.0	34.9	42.4	57.4	77.3	94.8	94.8	112.3
87.5°	0.0	0.0	0.0	0.0	2.5	5.0	10.0	12.5	17.5	17.5	29.9
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°	5434.2	5434.2	5434.2	5434.2	5434.2	5434.2	5434.2	5434.2	5434.2	5434.2	5434.2
2.5°	5489.1	5416.7	5384.3	5331.9	5289.5	5242.1	5204.7	5177.2	5159.8	5149.8	5139.8
5°	5578.9	5469.1	5381.8	5277.0	5204.7	5134.8	5077.4	5037.5	5017.5	5002.6	4992.6
7.5°	5718.6	5571.4	5406.8	5244.6	5117.3	5005.1	4932.7	4890.3	4862.8	4852.9	4845.4
10°	5910.8	5706.2	5434.2	5177.2	4987.6	4865.3	4815.4	4795.5	4798.0	4793.0	4790.5
12.5°	6127.8	5848.4	5426.7	5057.5	4847.9	4775.5	4778.0	4810.4	4847.9	4857.9	4860.3
15°	6362.4	5988.1	5354.4	4902.8	4738.1	4745.6	4810.4	4887.8	4957.7	4985.1	4990.1
17.5°	6616.9	6105.4	5222.1	4733.1	4648.3	4728.1	4847.9	4975.1	5077.4	5122.3	5134.8
20°	6901.3	6205.2	5035.0	4565.9	4563.4	4695.7	4870.3	5037.5	5167.2	5227.1	5237.1
22.5°	7203.2	6267.6	4805.5	4411.2	4476.1	4653.3	4852.9	5027.5	5164.7	5224.6	5237.1
25°	7507.6	6287.5	4553.5	4269.0	4386.3	4585.9	4768.0	4907.8	5037.5	5089.9	5099.9
27.5°	7792.0	6230.1	4313.9	4146.8	4304.0	4486.1	4608.3	4683.2	4773.0	4812.9	4820.4
30°	8081.4	6115.4	4111.8	4049.5	4211.6	4348.9	4403.8	4408.7	4443.7	4443.7	4448.7
32.5°	8373.4	5945.7	3934.7	3954.6	4096.9	4186.7	4194.2	4136.8	4094.4	4024.5	4022.0
35°	8710.2	5773.5	3790.0	3847.4	3962.1	4017.0	3994.6	3884.8	3782.5	3667.7	3662.7
37.5°	9022.1	5596.4	3667.7	3737.6	3809.9	3849.9	3797.5	3665.2	3580.4	3463.1	3445.7
40°	9279.1	5436.7	3550.4	3622.8	3657.7	3692.7	3607.8	3500.5	3513.0	3448.2	3445.7
42.5°	9428.8	5282.0	3440.7	3495.6	3518.0	3543.0	3468.1	3388.3	3455.6	3405.7	3408.2
45°	9538.6	5147.3	3340.9	3360.8	3415.7	3453.1	3383.3	3293.5	3308.4	3116.3	3071.4
47.5°	9663.3	5072.4	3246.1	3226.1	3323.4	3388.3	3281.0	3151.2	3061.4	2871.8	2854.3
50°	9795.5	5045.0	3146.3	3091.4	3208.6	3271.0	3146.3	2984.1	2866.8	2764.5	2754.5
52.5°	9840.5	5042.5	3021.5	2929.2	3046.4	3133.8	3029.0	2864.3	2724.6	2624.8	2619.8
55°	10017.6	5114.8	2861.8	2707.1	2816.9	2996.5	2919.2	2682.2	2569.9	2525.0	2520.0
57.5°	10224.7	5127.3	2609.8	2465.1	2617.3	2829.4	2732.1	2527.5	2405.2	2350.3	2345.3
60°	10139.9	4820.4	2340.4	2280.5	2447.6	2672.2	2582.4	2405.2	2263.0	2210.6	2205.6
62.5°	7727.2	3403.2	2143.2	2120.8	2265.5	2445.1	2427.7	2243.0	2108.3	2070.9	2065.9
65°	4648.3	2390.3	1953.6	1951.1	2053.4	2225.6	2248.0	2098.3	1956.1	1903.7	1903.7
67.5°	2297.9	1828.9	1739.0	1726.6	1791.4	1913.7	2008.5	1886.3	1766.5	1716.6	1709.1
70°	1624.3	1611.8	1581.9	1546.9	1559.4	1609.3	1649.2	1546.9	1419.7	1369.8	1359.8
72.5°	1404.7	1407.2	1387.2	1359.8	1349.8	1314.9	1280.0	1205.1	1127.8	1075.4	1080.4
75°	1090.3	1095.3	1107.8	1097.8	1070.4	1032.9	995.5	900.7	838.3	788.4	778.5
77.5°	636.2	661.2	701.1	691.1	696.1	643.7	628.8	536.4	479.0	444.1	436.6
80°	359.3	374.3	391.7	404.2	389.2	366.8	334.3	284.4	267.0	242.0	237.0
82.5°	217.1	232.0	239.5	249.5	244.5	214.6	189.6	157.2	142.2	129.7	127.2
85°	109.8	119.8	127.2	132.2	117.3	97.3	87.3	69.9	59.9	52.4	52.4
87.5°	27.4	29.9	34.9	29.9	27.4	12.5	10.0	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)