

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: P638548

Luminaire Tested: GWS-SA4F-722-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638548  
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-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

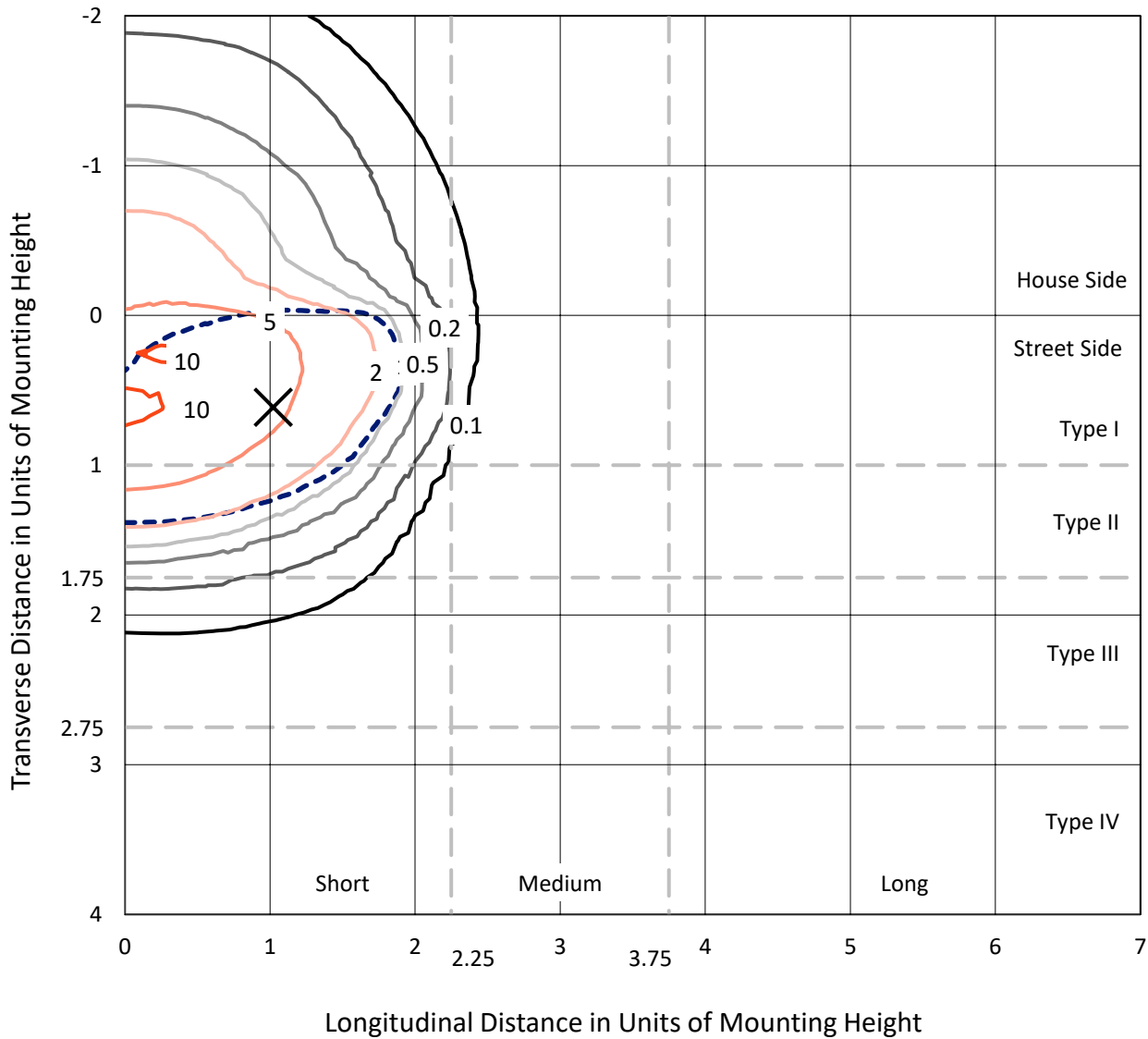
Lumens per Lamp: N/A  
Luminaire Lumens: 22057.4 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

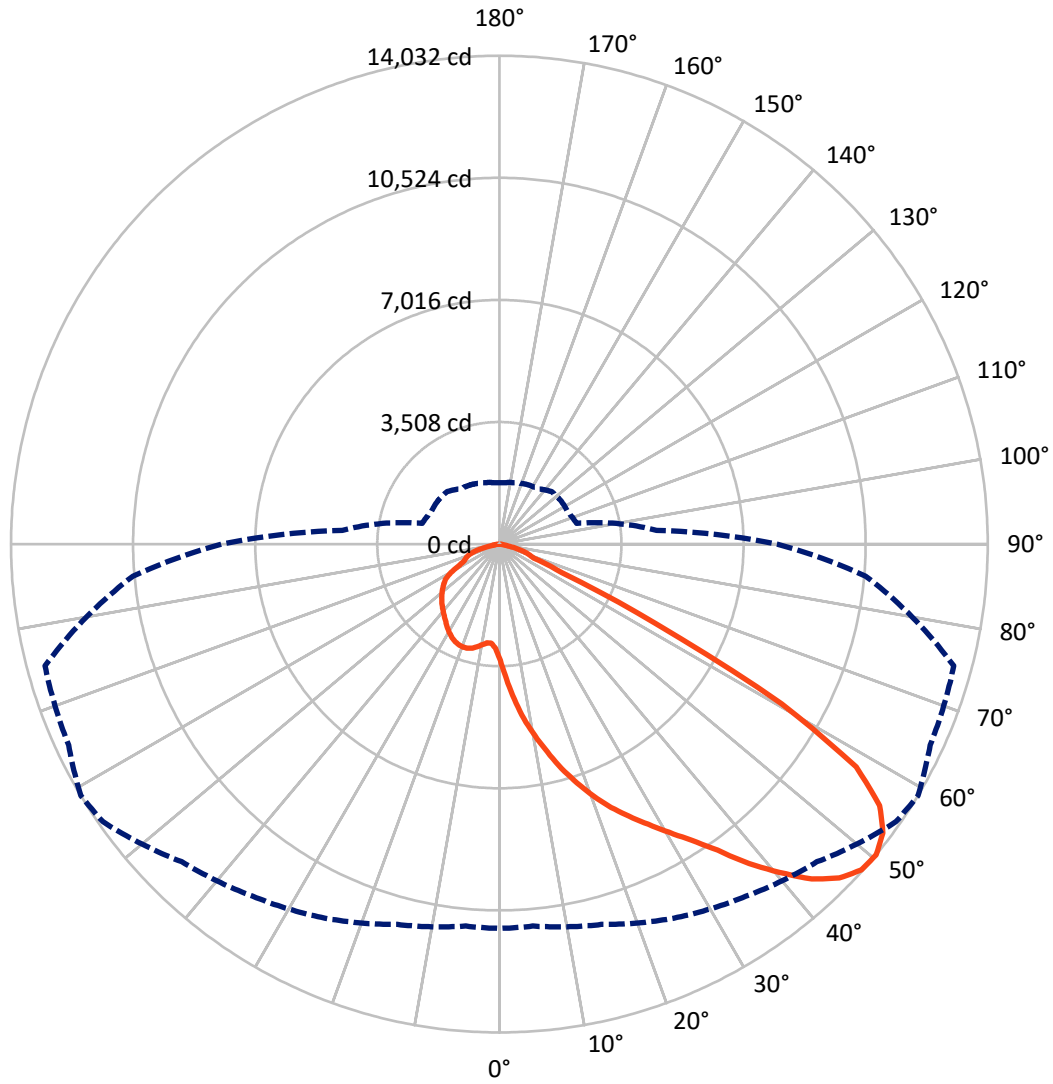
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	5073.6	0.0	5073.6
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	16983.8	0.0	16983.8
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	22057.4	0.0	22057.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.9	1.7
10°-20°	1360.9	6.2
20°-30°	2577.1	11.7
30°-40°	4273.6	19.4
40°-50°	5838.0	26.5
50°-60°	5299.4	24.0
60°-70°	1764.7	8.0
70°-80°	514.7	2.3
80°-90°	54.1	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°	22057.4	100.0
0°-180°	22057.4	100.0

**Coefficient of Utilization**



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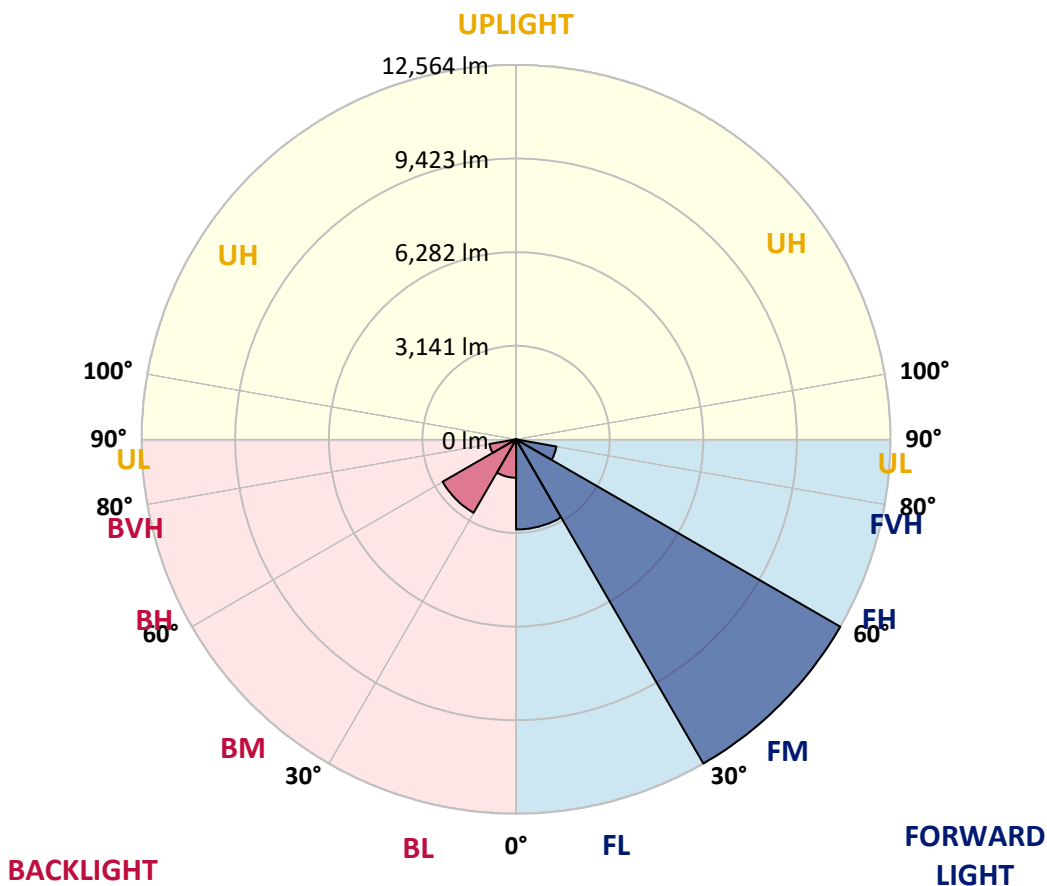
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3024.6	13.7			
FM (30°-60°)	12564.2	57.0			
FH (60°-80°)	1373.9	6.2			G1/1800
FVH (80°-90°)	21.1	0.1			G1/100
BL (0°-30°)	1288.3	5.8	B3/2500		
BM (30°-60°)	2846.8	12.9	B3/5000		
BH (60°-80°)	905.6	4.1	B2/1000		G2/1000
BVH (80°-90°)	32.9	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3341.9	3341.9	3341.9	3341.9	3341.9	3341.9	3341.9	3341.9	3341.9	3341.9	3341.9
2.5°	4330.0	4362.4	4312.1	4315.7	4189.9	4132.4	3970.7	3875.5	3812.6	3636.5	3476.6
5°	5203.2	5165.5	5126.0	5102.6	4993.0	4838.5	4637.3	4477.4	4330.0	3985.1	3652.7
7.5°	5738.6	5718.9	5691.9	5677.6	5569.8	5408.1	5206.8	5070.3	4856.5	4389.3	3866.5
10°	6193.2	6169.8	6153.7	6164.5	6076.4	5972.2	5753.0	5596.7	5355.9	4816.9	4125.2
12.5°	6545.4	6557.9	6563.3	6620.8	6583.1	6520.2	6293.8	6128.5	5860.8	5267.9	4428.9
15°	6823.8	6820.3	6883.1	6992.7	7053.8	7014.3	6832.8	6694.5	6367.5	5711.7	4755.9
17.5°	6888.5	6892.1	6990.9	7183.2	7382.6	7479.6	7377.2	7211.9	6888.5	6150.1	5095.4
20°	6940.6	6947.8	7050.2	7269.4	7560.5	7831.8	7848.0	7729.4	7450.9	6624.4	5440.4
22.5°	7269.4	7285.6	7312.5	7450.9	7713.2	8056.4	8245.0	8219.9	7986.3	7122.1	5812.3
25°	8133.6	8085.1	7954.0	7914.4	8015.1	8293.5	8615.2	8663.7	8548.7	7670.1	6213.0
27.5°	9200.9	9148.8	8954.7	8749.9	8532.5	8629.5	8972.7	9118.2	9120.0	8273.8	6615.4
30°	10169.3	10128.0	9969.9	9677.0	9301.5	9161.3	9414.7	9610.5	9727.3	8970.9	7073.6
32.5°	10997.6	10959.8	10746.0	10507.1	10140.5	9858.5	9950.1	10138.7	10411.8	9872.8	7643.1
35°	11694.7	11657.0	11452.1	11211.4	10871.8	10702.9	10670.6	10799.9	11153.9	10814.3	8297.1
37.5°	12260.6	12222.9	12009.1	11782.7	11524.0	11534.8	11583.3	11646.2	11849.2	11822.3	8996.1
40°	12627.2	12587.6	12434.9	12273.2	12109.7	12239.1	12479.8	12404.4	12512.2	12636.2	9639.3
42.5°	12790.7	12740.4	12652.3	12616.4	12566.1	12767.3	13230.9	13155.4	13026.0	13178.8	10117.2
45°	12627.2	12584.0	12582.3	12691.9	12808.6	13067.4	13750.1	13689.0	13362.0	13441.1	10402.9
47.5°	12125.9	12088.2	12190.6	12478.0	12765.5	13142.8	13981.9	13992.7	13601.0	13550.7	10587.9
50°	11042.5	11017.3	11313.8	11858.2	12354.1	12907.5	13908.2	14032.2	13658.5	13516.5	10564.6
52.5°	8839.7	8956.5	9601.5	10510.7	11473.7	12494.2	13635.1	13796.8	13381.8	13291.9	10438.8
55°	6051.3	6105.2	6750.2	8077.9	9605.1	11599.5	13008.1	13257.8	13054.8	13254.2	10570.0
57.5°	3133.4	3176.6	3685.0	4863.7	6514.8	9166.7	11267.1	12086.4	12395.4	13444.7	10977.8
60°	1286.4	1322.4	1532.6	2102.1	3286.2	5338.0	8108.5	9323.0	10048.9	12278.6	9748.9
62.5°	934.3	952.2	1052.9	1254.1	1721.2	2616.0	4588.8	5036.1	5546.4	7695.2	6189.6
65°	787.0	806.7	887.6	1009.7	1255.9	1604.4	1960.2	1971.0	2172.2	3135.2	2294.4
67.5°	659.4	677.4	749.2	853.4	1015.1	1139.1	1052.9	1054.7	1051.1	1137.3	1099.6
70°	513.9	528.2	600.1	711.5	795.9	731.3	822.9	910.9	873.2	907.3	959.4
72.5°	375.5	391.7	454.6	539.0	517.4	521.0	666.6	756.4	734.8	772.6	821.1
75°	271.3	282.1	314.4	269.5	283.9	343.2	468.9	517.4	539.0	571.3	614.5
77.5°	88.0	88.0	98.8	124.0	154.5	190.4	239.0	258.7	291.1	327.0	357.5
80°	44.9	46.7	55.7	68.3	86.2	109.6	140.1	149.1	165.3	185.1	197.6
82.5°	21.6	23.4	27.0	34.1	44.9	57.5	77.3	86.2	97.0	109.6	118.6
85°	5.4	5.4	7.2	10.8	14.4	21.6	28.7	34.1	43.1	52.1	57.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.8	5.4	7.2	9.0	10.8	14.4
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°	3341.9	3341.9	3341.9	3341.9	3341.9	3341.9	3341.9	3341.9	3341.9	3341.9	3341.9
2.5°	3404.7	3304.1	3174.8	3065.2	2964.5	2887.3	2820.8	2788.5	2757.9	2736.4	2743.6
5°	3498.2	3325.7	3084.9	2917.8	2815.4	2763.3	2727.4	2709.4	2705.8	2691.4	2686.1
7.5°	3634.7	3388.6	3067.0	2898.1	2829.8	2802.8	2783.1	2772.3	2777.7	2763.3	2757.9
10°	3803.6	3492.8	3111.9	2962.7	2903.5	2883.7	2862.1	2847.8	2840.6	2819.0	2815.4
12.5°	4013.8	3622.1	3192.7	3045.4	2986.1	2952.0	2923.2	2898.1	2881.9	2854.9	2847.8
15°	4240.2	3765.9	3288.0	3126.2	3056.2	3005.9	2959.2	2921.4	2892.7	2856.7	2851.4
17.5°	4486.3	3916.8	3367.0	3181.9	3092.1	3025.6	2957.4	2901.7	2862.1	2815.4	2810.0
20°	4743.3	4069.5	3426.3	3208.9	3093.9	3004.1	2912.4	2838.8	2788.5	2741.8	2738.2
22.5°	5009.2	4209.7	3462.2	3201.7	3065.2	2953.8	2844.2	2761.5	2702.2	2646.5	2642.9
25°	5276.9	4344.4	3471.2	3173.0	3007.7	2878.3	2768.7	2671.7	2605.2	2542.3	2535.1
27.5°	5548.2	4457.6	3449.7	3115.5	2930.4	2790.3	2680.7	2585.4	2517.2	2454.3	2443.5
30°	5837.5	4554.6	3402.9	3040.0	2840.6	2696.8	2589.0	2517.2	2452.5	2389.6	2378.8
32.5°	6146.5	4639.1	3336.5	2948.4	2736.4	2603.4	2524.4	2459.7	2395.0	2339.3	2328.5
35°	6514.8	4694.8	3237.6	2829.8	2639.3	2535.1	2481.2	2405.8	2326.7	2265.6	2260.2
37.5°	6895.7	4737.9	3119.1	2716.6	2554.9	2495.6	2450.7	2348.3	2249.5	2175.8	2166.8
40°	7264.0	4773.8	2971.7	2610.6	2477.6	2466.9	2405.8	2278.2	2107.5	2024.9	2017.7
42.5°	7607.2	4784.6	2817.2	2497.4	2407.6	2402.2	2333.9	2136.3	2005.1	1953.0	1945.8
45°	7842.6	4775.6	2657.3	2391.4	2337.5	2308.8	2236.9	2033.9	1953.0	1906.3	1897.3
47.5°	8016.9	4728.9	2477.6	2280.0	2258.4	2218.9	2064.4	1969.2	1893.7	1847.0	1838.0
50°	7986.3	4534.9	2296.2	2172.2	2163.2	2129.1	1938.6	1888.3	1821.8	1771.5	1764.4
52.5°	7828.2	4166.5	2111.1	2053.6	2071.6	2005.1	1848.8	1791.3	1733.8	1676.3	1663.7
55°	7867.7	3900.6	1971.0	1938.6	1971.0	1820.1	1748.2	1687.1	1633.2	1577.5	1566.7
57.5°	8040.2	3638.3	1821.8	1814.7	1848.8	1678.1	1618.8	1541.6	1464.3	1419.4	1419.4
60°	6752.0	2651.9	1559.5	1577.5	1654.8	1563.1	1511.0	1432.0	1347.5	1308.0	1308.0
62.5°	3992.3	1663.7	1293.6	1273.9	1322.4	1379.9	1408.6	1343.9	1243.3	1191.2	1193.0
65°	1759.0	1211.0	1140.9	1124.7	1110.4	1149.9	1228.9	1234.3	1128.3	1067.2	1069.0
67.5°	1083.4	1096.0	1067.2	1054.7	1042.1	1034.9	1027.7	1031.3	1002.6	946.9	945.1
70°	977.4	1011.5	991.8	981.0	964.8	952.2	909.1	839.1	790.5	776.2	792.3
72.5°	840.9	887.6	876.8	871.4	851.6	821.1	763.6	695.3	637.8	601.9	609.1
75°	634.2	672.0	677.4	679.2	657.6	628.8	569.6	512.1	461.8	424.0	433.0
77.5°	364.7	386.3	391.7	397.1	380.9	370.1	330.6	289.3	262.3	222.8	233.6
80°	203.0	212.0	212.0	213.8	204.8	192.2	165.3	141.9	129.4	111.4	113.2
82.5°	122.2	125.8	127.6	129.4	124.0	111.4	91.6	75.5	68.3	59.3	57.5
85°	59.3	62.9	62.9	64.7	55.7	48.5	37.7	28.7	25.2	18.0	19.8
87.5°	14.4	16.2	16.2	14.4	12.6	9.0	5.4	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)