

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: P637833

Luminaire Tested: GWS-SA4D-750-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637833  
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-SA4D-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**

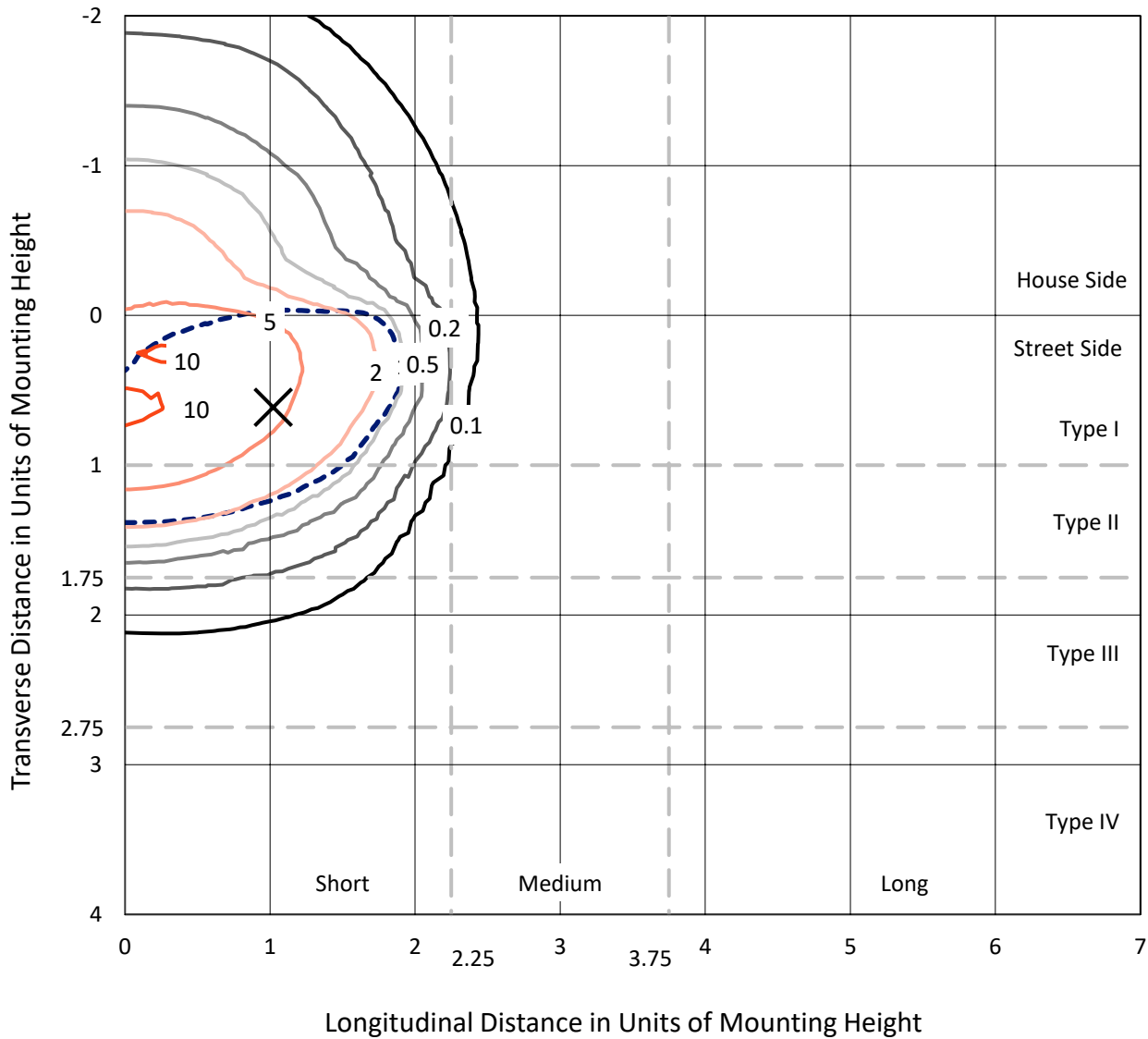
Lumens per Lamp: N/A  
Luminaire Lumens: 22046.7 lumens  
Efficiency: N/A  
Efficacy: 136.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

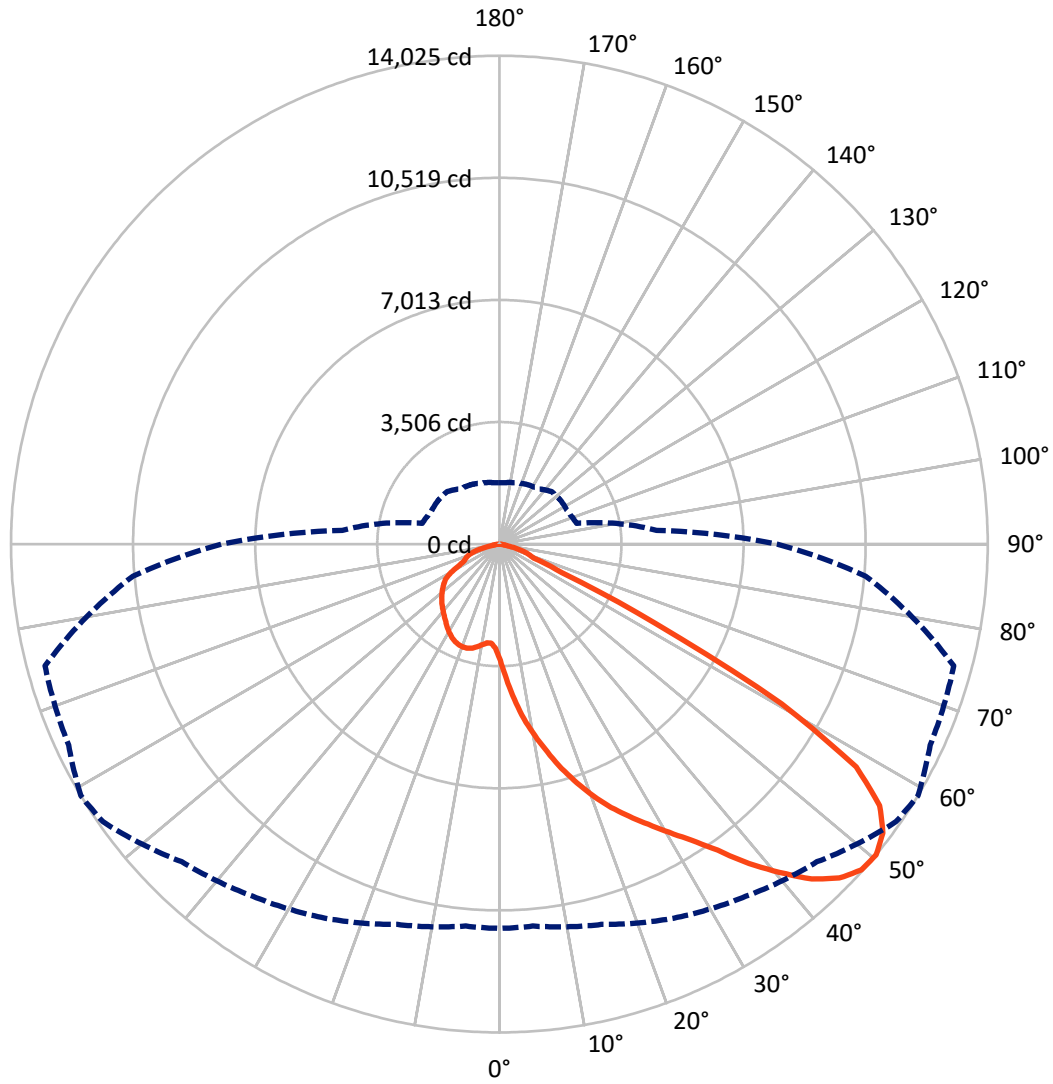
✕ Max cd  
 - - - 1/2 Max cd



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	5071.2	0.0	5071.2
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	16975.5	0.0	16975.5
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	22046.7	0.0	22046.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.7	1.7
10°-20°	1360.3	6.2
20°-30°	2575.8	11.7
30°-40°	4271.5	19.4
40°-50°	5835.1	26.5
50°-60°	5296.8	24.0
60°-70°	1763.9	8.0
70°-80°	514.5	2.3
80°-90°	54.0	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°	22046.7	100.0
0°-180°	22046.7	100.0

**Coefficient of Utilization**



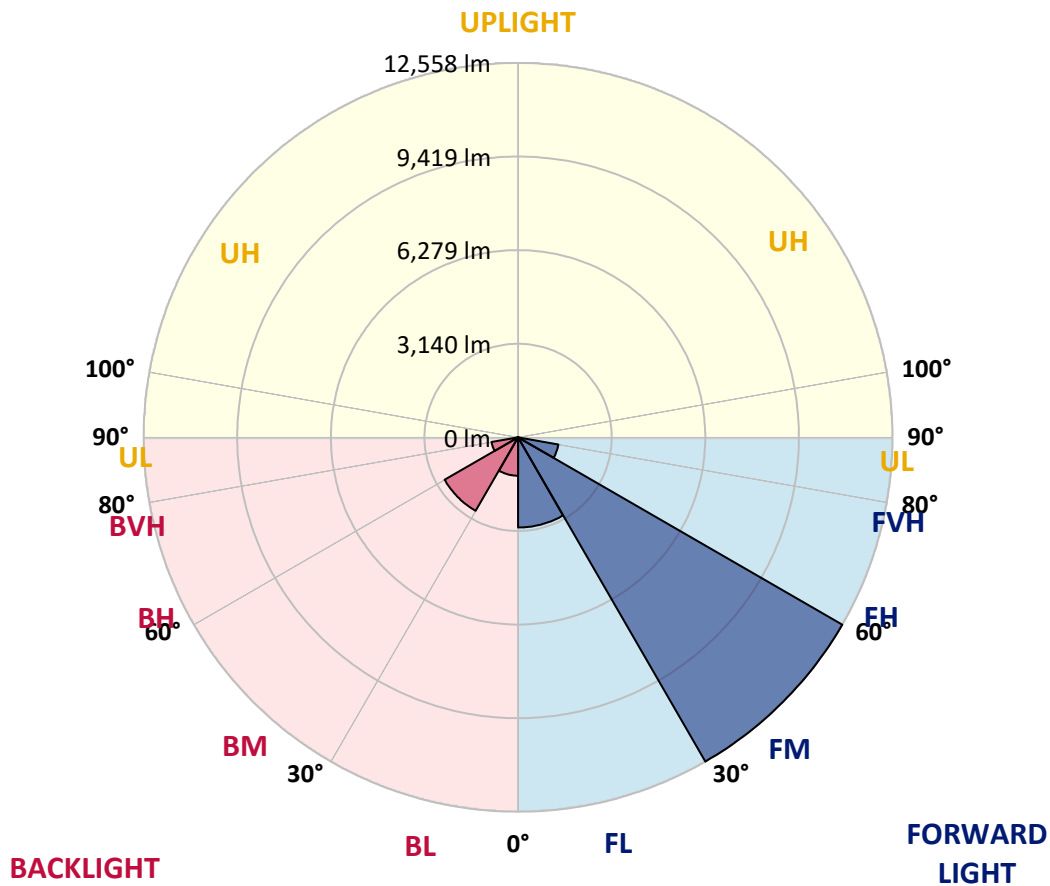
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3023.1	13.7			
FM (30°-60°)	12558.1	57.0			
FH (60°-80°)	1373.2	6.2			G1/1800
FVH (80°-90°)	21.1	0.1			G1/100
BL (0°-30°)	1287.7	5.8	B3/2500		
BM (30°-60°)	2845.4	12.9	B3/5000		
BH (60°-80°)	905.1	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°	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2
2.5°	4327.9	4360.3	4310.0	4313.6	4187.9	4130.4	3968.8	3873.6	3810.7	3634.7	3474.9
5°	5200.7	5163.0	5123.5	5100.1	4990.6	4836.2	4635.0	4475.2	4327.9	3983.1	3650.9
7.5°	5735.9	5716.1	5689.2	5674.8	5567.1	5405.4	5204.3	5067.8	4854.1	4387.2	3864.6
10°	6190.2	6166.9	6150.7	6161.5	6073.5	5969.3	5750.2	5594.0	5353.3	4814.6	4123.2
12.5°	6542.2	6554.8	6560.1	6617.6	6579.9	6517.0	6290.8	6125.6	5858.0	5265.4	4426.7
15°	6820.5	6816.9	6879.8	6989.3	7050.4	7010.9	6829.5	6691.2	6364.4	5708.9	4753.5
17.5°	6885.2	6888.8	6987.5	7179.7	7379.0	7476.0	7373.6	7208.4	6885.2	6147.1	5093.0
20°	6937.3	6944.4	7046.8	7265.9	7556.8	7828.0	7844.2	7725.6	7447.3	6621.2	5437.8
22.5°	7265.9	7282.1	7309.0	7447.3	7709.5	8052.5	8241.0	8215.9	7982.4	7118.6	5809.5
25°	8129.7	8081.2	7950.1	7910.6	8011.2	8289.5	8611.0	8659.5	8544.5	7666.4	6210.0
27.5°	9196.4	9144.3	8950.4	8745.7	8528.4	8625.3	8968.3	9113.8	9115.6	8269.8	6612.2
30°	10164.4	10123.1	9965.0	9672.3	9297.0	9156.9	9410.1	9605.9	9722.6	8966.5	7070.2
32.5°	10992.2	10954.5	10740.8	10502.0	10135.6	9853.7	9945.3	10133.8	10406.8	9868.0	7639.4
35°	11689.0	11651.3	11446.6	11205.9	10866.5	10697.7	10665.4	10794.7	11148.5	10809.1	8293.1
37.5°	12254.7	12217.0	12003.3	11777.0	11518.4	11529.2	11577.7	11640.5	11843.5	11816.5	8991.7
40°	12621.0	12581.5	12428.9	12267.3	12103.8	12233.1	12473.8	12398.4	12506.1	12630.0	9634.6
42.5°	12784.5	12734.2	12646.2	12610.3	12560.0	12761.1	13224.4	13149.0	13019.7	13172.4	10112.3
45°	12621.0	12577.9	12576.1	12685.7	12802.4	13061.0	13743.4	13682.4	13355.5	13434.6	10397.8
47.5°	12120.0	12082.3	12184.7	12472.0	12759.3	13136.4	13975.1	13985.9	13594.4	13544.1	10582.8
50°	11037.1	11012.0	11308.3	11852.4	12348.1	12901.2	13901.5	14025.4	13651.8	13510.0	10559.4
52.5°	8835.4	8952.2	9596.9	10505.6	11468.1	12488.2	13628.5	13790.1	13375.3	13285.5	10433.7
55°	6048.3	6102.2	6746.9	8074.0	9600.5	11593.8	13001.8	13251.4	13048.5	13247.8	10564.8
57.5°	3131.9	3175.0	3683.2	4861.3	6511.7	9162.3	11261.6	12080.5	12389.4	13438.1	10972.5
60°	1285.8	1321.7	1531.8	2101.1	3284.6	5335.4	8104.5	9318.5	10044.0	12272.7	9744.1
62.5°	933.8	951.8	1052.4	1253.5	1720.4	2614.7	4586.5	5033.7	5543.7	7691.5	6186.6
65°	786.6	806.3	887.1	1009.3	1255.3	1603.7	1959.2	1970.0	2171.2	3133.7	2293.3
67.5°	659.1	677.0	748.9	853.0	1014.6	1138.6	1052.4	1054.1	1050.6	1136.8	1099.0
70°	513.6	528.0	599.8	711.1	795.5	730.9	822.5	910.5	872.8	906.9	959.0
72.5°	375.3	391.5	454.3	538.7	517.2	520.8	666.3	756.0	734.5	772.2	820.7
75°	271.2	281.9	314.3	269.4	283.7	343.0	468.7	517.2	538.7	571.1	614.2
77.5°	88.0	88.0	98.8	123.9	154.4	190.4	238.8	258.6	290.9	326.8	357.4
80°	44.9	46.7	55.7	68.2	86.2	109.5	140.1	149.1	165.2	185.0	197.5
82.5°	21.5	23.3	26.9	34.1	44.9	57.5	77.2	86.2	97.0	109.5	118.5
85°	5.4	5.4	7.2	10.8	14.4	21.5	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°	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2
2.5°	3403.1	3302.5	3173.2	3063.7	2963.1	2885.9	2819.4	2787.1	2756.6	2735.0	2742.2
5°	3496.5	3324.1	3083.4	2916.4	2814.1	2762.0	2726.1	2708.1	2704.5	2690.1	2684.8
7.5°	3633.0	3386.9	3065.5	2896.7	2828.4	2801.5	2781.7	2771.0	2776.3	2762.0	2756.6
10°	3801.8	3491.1	3110.4	2961.3	2902.1	2882.3	2860.7	2846.4	2839.2	2817.6	2814.1
12.5°	4011.9	3620.4	3191.2	3043.9	2984.7	2950.5	2921.8	2896.7	2880.5	2853.6	2846.4
15°	4238.1	3764.0	3286.4	3124.7	3054.7	3004.4	2957.7	2920.0	2891.3	2855.4	2850.0
17.5°	4484.2	3914.9	3365.4	3180.4	3090.6	3024.2	2955.9	2900.3	2860.7	2814.1	2808.7
20°	4741.0	4067.5	3424.6	3207.3	3092.4	3002.6	2911.0	2837.4	2787.1	2740.4	2736.8
22.5°	5006.8	4207.6	3460.6	3200.2	3063.7	2952.3	2842.8	2760.2	2700.9	2645.2	2641.7
25°	5274.3	4342.3	3469.5	3171.4	3006.2	2876.9	2767.4	2670.4	2603.9	2541.1	2533.9
27.5°	5545.5	4455.4	3448.0	3114.0	2929.0	2788.9	2679.4	2584.2	2515.9	2453.1	2442.3
30°	5834.6	4552.4	3401.3	3038.5	2839.2	2695.5	2587.8	2515.9	2451.3	2388.4	2377.7
32.5°	6143.5	4636.8	3334.8	2946.9	2735.0	2602.1	2523.1	2458.5	2393.8	2338.2	2327.4
35°	6511.7	4692.5	3236.1	2828.4	2638.1	2533.9	2480.0	2404.6	2325.6	2264.5	2259.1
37.5°	6892.4	4735.6	3117.5	2715.3	2553.7	2494.4	2449.5	2347.1	2248.4	2174.7	2165.8
40°	7260.5	4771.5	2970.3	2609.3	2476.4	2465.7	2404.6	2277.1	2106.5	2023.9	2016.7
42.5°	7603.5	4782.3	2815.9	2496.2	2406.4	2401.0	2332.8	2135.2	2004.1	1952.1	1944.9
45°	7838.8	4773.3	2656.0	2390.2	2336.4	2307.6	2235.8	2032.9	1952.1	1905.4	1896.4
47.5°	8013.0	4726.6	2476.4	2278.9	2257.3	2217.8	2063.4	1968.2	1892.8	1846.1	1837.1
50°	7982.4	4532.7	2295.1	2171.2	2162.2	2128.1	1937.7	1887.4	1821.0	1770.7	1763.5
52.5°	7824.4	4164.5	2110.1	2052.6	2070.6	2004.1	1847.9	1790.4	1733.0	1675.5	1662.9
55°	7863.9	3898.7	1970.0	1937.7	1970.0	1819.2	1747.3	1686.3	1632.4	1576.7	1566.0
57.5°	8036.3	3636.5	1821.0	1813.8	1847.9	1677.3	1618.0	1540.8	1463.6	1418.7	1418.7
60°	6748.7	2650.6	1558.8	1576.7	1654.0	1562.4	1510.3	1431.3	1346.9	1307.4	1307.4
62.5°	3990.3	1662.9	1293.0	1273.2	1321.7	1379.2	1407.9	1343.3	1242.7	1190.6	1192.4
65°	1758.1	1210.4	1140.3	1124.2	1109.8	1149.3	1228.3	1233.7	1127.8	1066.7	1068.5
67.5°	1082.9	1095.5	1066.7	1054.1	1041.6	1034.4	1027.2	1030.8	1002.1	946.4	944.6
70°	976.9	1011.0	991.3	980.5	964.4	951.8	908.7	838.6	790.2	775.8	792.0
72.5°	840.4	887.1	876.4	871.0	851.2	820.7	763.2	695.0	637.5	601.6	608.8
75°	633.9	671.6	677.0	678.8	657.3	628.5	569.3	511.8	461.5	423.8	432.8
77.5°	364.6	386.1	391.5	396.9	380.7	369.9	330.4	289.1	262.2	222.7	233.5
80°	202.9	211.9	211.9	213.7	204.7	192.2	165.2	141.9	129.3	111.3	113.1
82.5°	122.1	125.7	127.5	129.3	123.9	111.3	91.6	75.4	68.2	59.3	57.5
85°	59.3	62.9	62.9	64.6	55.7	48.5	37.7	28.7	25.1	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)