

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: P636348

Luminaire Tested: GWS-SA3F-750-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636348  
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-SA3F-750-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

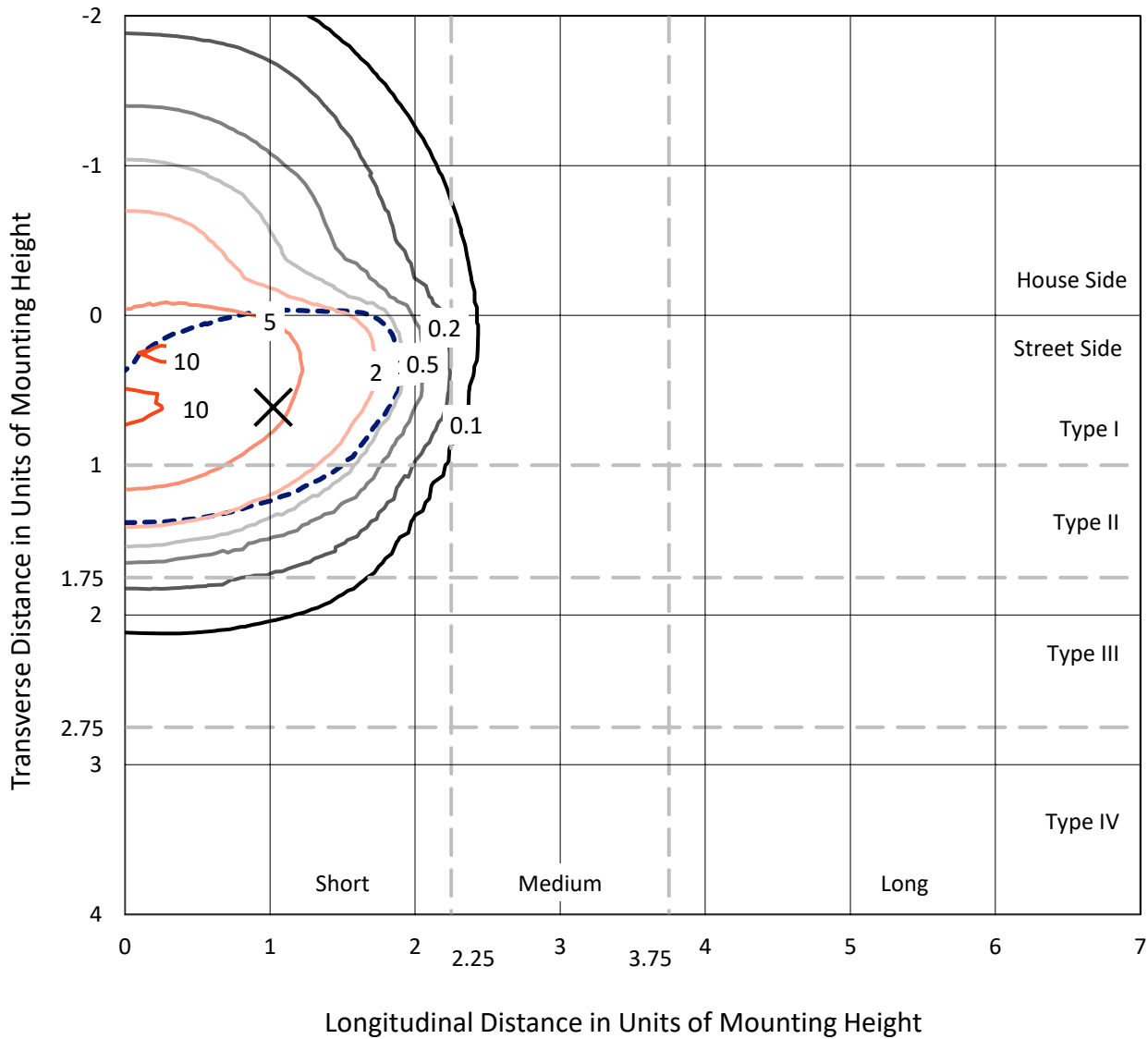
Lumens per Lamp: N/A  
Luminaire Lumens: 22012.2 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

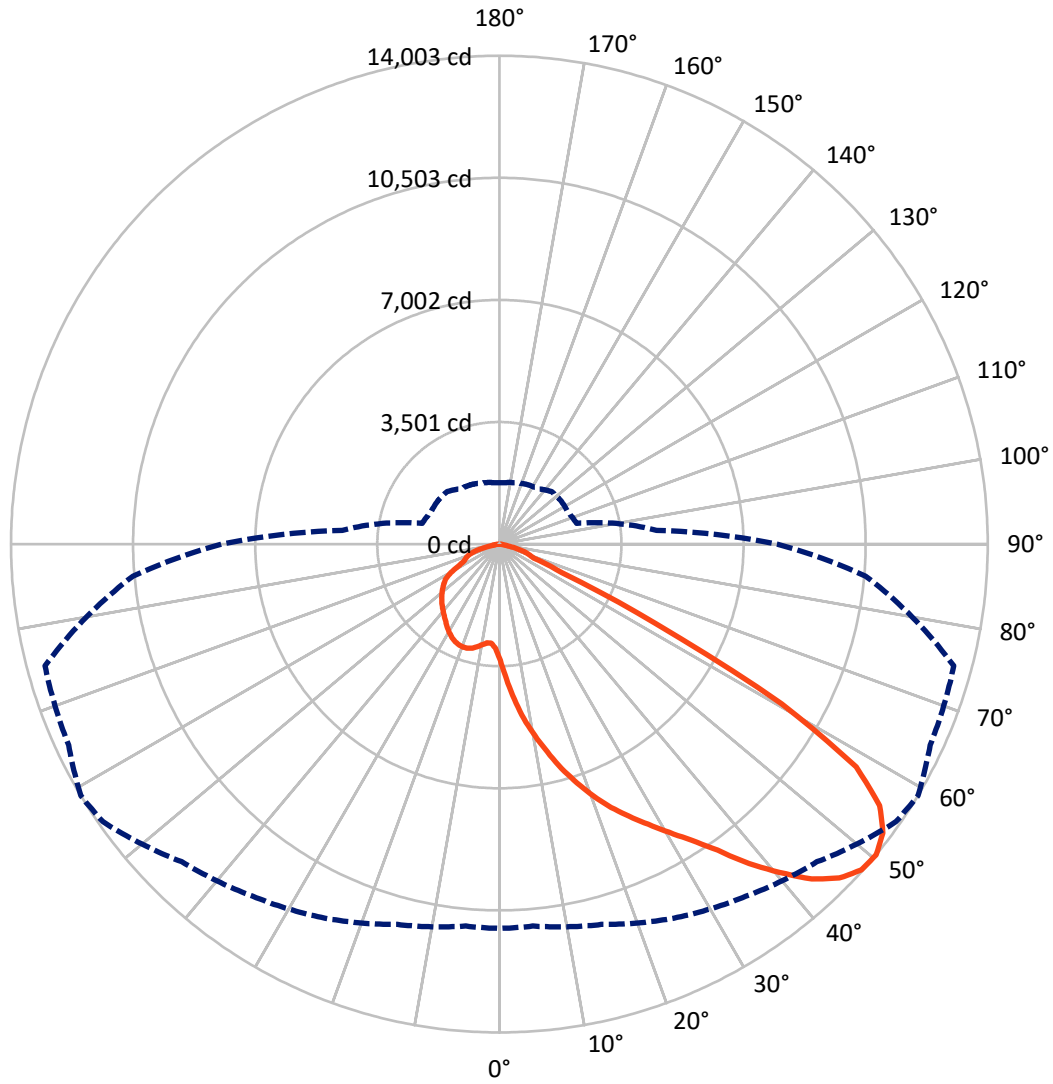
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	5063.2	0.0	5063.2
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	16949.0	0.0	16949.0
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	22012.2	0.0	22012.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.1	1.7
10°-20°	1358.2	6.2
20°-30°	2571.8	11.7
30°-40°	4264.9	19.4
40°-50°	5826.0	26.5
50°-60°	5288.5	24.0
60°-70°	1761.1	8.0
70°-80°	513.7	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°	22012.2	100.0
0°-180°	22012.2	100.0

**Coefficient of Utilization**



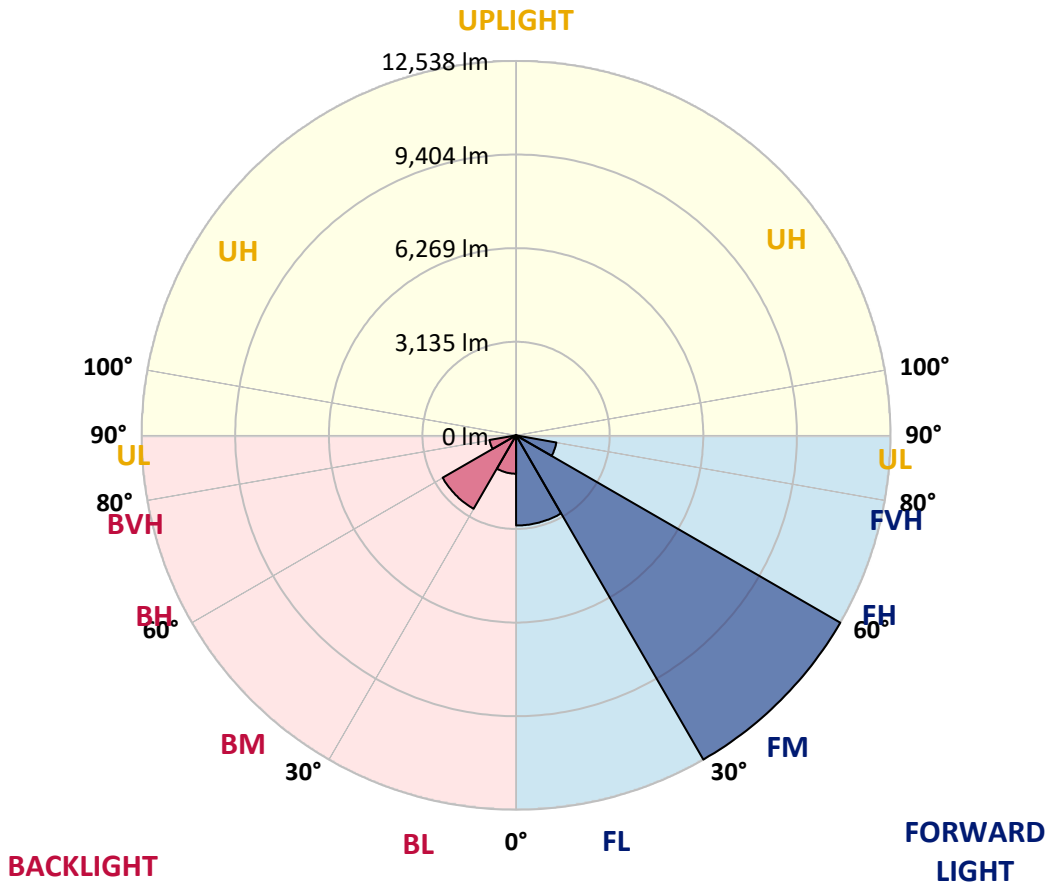
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3018.4	13.7			
FM (30°-60°)	12538.4	57.0			
FH (60°-80°)	1371.1	6.2			G1/1800
FVH (80°-90°)	21.1	0.1			G1/100
BL (0°-30°)	1285.7	5.8	B3/2500		
BM (30°-60°)	2841.0	12.9	B3/5000		
BH (60°-80°)	903.7	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°	3335.0	3335.0	3335.0	3335.0	3335.0	3335.0	3335.0	3335.0	3335.0	3335.0	3335.0
2.5°	4321.2	4353.4	4303.2	4306.8	4181.3	4123.9	3962.6	3867.5	3804.8	3629.1	3469.5
5°	5192.6	5154.9	5115.5	5092.2	4982.8	4828.6	4627.8	4468.2	4321.2	3976.9	3645.2
7.5°	5726.9	5707.2	5680.3	5665.9	5558.3	5397.0	5196.2	5059.9	4846.5	4380.3	3858.6
10°	6180.5	6157.2	6141.1	6151.8	6064.0	5960.0	5741.2	5585.2	5345.0	4807.1	4116.8
12.5°	6531.9	6544.5	6549.9	6607.3	6569.6	6506.8	6280.9	6116.0	5848.8	5257.1	4419.8
15°	6809.9	6806.3	6869.0	6978.4	7039.4	6999.9	6818.8	6680.8	6354.4	5700.0	4746.1
17.5°	6874.4	6878.0	6976.6	7168.5	7367.5	7464.3	7362.1	7197.2	6874.4	6137.5	5085.0
20°	6926.4	6933.6	7035.8	7254.5	7545.0	7815.7	7831.9	7713.5	7435.6	6610.8	5429.2
22.5°	7254.5	7270.7	7297.6	7435.6	7697.4	8039.9	8228.1	8203.0	7969.9	7107.5	5800.4
25°	8117.0	8068.6	7937.7	7898.2	7998.6	8276.5	8597.5	8645.9	8531.2	7654.4	6200.2
27.5°	9182.0	9130.0	8936.4	8732.0	8515.0	8611.8	8954.3	9099.5	9101.3	8256.8	6601.9
30°	10148.5	10107.2	9949.4	9657.2	9282.4	9142.6	9395.4	9590.8	9707.4	8952.5	7059.1
32.5°	10975.0	10937.4	10724.0	10485.5	10119.8	9838.3	9929.7	10118.0	10390.5	9852.6	7627.5
35°	11670.7	11633.1	11428.7	11188.4	10849.5	10681.0	10648.7	10777.8	11131.0	10792.1	8280.1
37.5°	12235.5	12197.9	11984.5	11758.6	11500.4	11511.1	11559.6	11622.3	11824.9	11798.0	8977.6
40°	12601.3	12561.8	12409.4	12248.1	12084.9	12214.0	12454.3	12379.0	12486.5	12610.3	9619.5
42.5°	12764.5	12714.3	12626.4	12590.5	12540.3	12741.1	13203.7	13128.4	12999.3	13151.7	10096.5
45°	12601.3	12558.3	12556.5	12665.8	12782.4	13040.6	13721.9	13661.0	13334.6	13413.5	10381.5
47.5°	12101.0	12063.4	12165.6	12452.5	12739.4	13115.9	13953.2	13964.0	13573.1	13522.9	10566.2
50°	11019.9	10994.8	11290.6	11833.9	12328.8	12881.0	13879.7	14003.4	13630.5	13488.8	10542.9
52.5°	8821.6	8938.2	9581.9	10489.1	11450.2	12468.6	13607.2	13768.5	13354.4	13264.7	10417.4
55°	6038.9	6092.7	6736.3	8061.4	9585.4	11575.7	12981.4	13230.6	13028.0	13227.1	10548.3
57.5°	3127.0	3170.0	3677.5	4853.7	6501.5	9148.0	11244.0	12061.6	12370.0	13417.1	10955.3
60°	1283.8	1319.7	1529.4	2097.8	3279.4	5327.0	8091.9	9303.9	10028.3	12253.5	9728.9
62.5°	932.4	950.3	1050.7	1251.5	1717.7	2610.6	4579.4	5025.8	5535.0	7679.5	6176.9
65°	785.3	805.1	885.7	1007.7	1253.3	1601.2	1956.2	1966.9	2167.8	3128.8	2289.7
67.5°	658.0	676.0	747.7	851.7	1013.1	1136.8	1050.7	1052.5	1048.9	1135.0	1097.3
70°	512.8	527.1	598.9	710.0	794.3	729.8	821.2	909.1	871.4	905.5	957.5
72.5°	374.7	390.9	453.6	537.9	516.4	520.0	665.2	754.9	733.3	771.0	819.4
75°	270.7	281.5	313.8	269.0	283.3	342.5	468.0	516.4	537.9	570.2	613.2
77.5°	87.9	87.9	98.6	123.7	154.2	190.1	238.5	258.2	290.5	326.3	356.8
80°	44.8	46.6	55.6	68.1	86.1	109.4	139.9	148.8	165.0	184.7	197.2
82.5°	21.5	23.3	26.9	34.1	44.8	57.4	77.1	86.1	96.8	109.4	118.3
85°	5.4	5.4	7.2	10.8	14.3	21.5	28.7	34.1	43.0	52.0	57.4
87.5°	0.0	0.0	0.0	0.0	0.0	1.8	5.4	7.2	9.0	10.8	14.3
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°	3335.0	3335.0	3335.0	3335.0	3335.0	3335.0	3335.0	3335.0	3335.0	3335.0	3335.0
2.5°	3397.8	3297.4	3168.3	3058.9	2958.5	2881.4	2815.0	2782.8	2752.3	2730.8	2737.9
5°	3491.0	3318.9	3078.6	2911.9	2809.7	2757.7	2721.8	2703.9	2700.3	2685.9	2680.6
7.5°	3627.3	3381.6	3060.7	2892.1	2824.0	2797.1	2777.4	2766.6	2772.0	2757.7	2752.3
10°	3795.8	3485.6	3105.5	2956.7	2897.5	2877.8	2856.3	2841.9	2834.8	2813.2	2809.7
12.5°	4005.6	3614.7	3186.2	3039.2	2980.0	2945.9	2917.2	2892.1	2876.0	2849.1	2841.9
15°	4231.5	3758.2	3281.2	3119.8	3049.9	2999.7	2953.1	2915.4	2886.8	2850.9	2845.5
17.5°	4477.2	3908.8	3360.1	3175.4	3085.8	3019.4	2951.3	2895.7	2856.3	2809.7	2804.3
20°	4733.6	4061.2	3419.3	3202.3	3087.6	2997.9	2906.5	2833.0	2782.8	2736.1	2732.6
22.5°	4998.9	4201.0	3455.1	3195.1	3058.9	2947.7	2838.3	2755.9	2696.7	2641.1	2637.5
25°	5266.1	4335.5	3464.1	3166.5	3001.5	2872.4	2763.0	2666.2	2599.9	2537.1	2529.9
27.5°	5536.8	4448.5	3442.6	3109.1	2924.4	2784.5	2675.2	2580.1	2512.0	2449.3	2438.5
30°	5825.5	4545.3	3396.0	3033.8	2834.8	2691.3	2583.7	2512.0	2447.5	2384.7	2373.9
32.5°	6133.9	4629.6	3329.6	2942.3	2730.8	2598.1	2519.2	2454.6	2390.1	2334.5	2323.7
35°	6501.5	4685.1	3231.0	2824.0	2633.9	2529.9	2476.2	2400.8	2322.0	2261.0	2255.6
37.5°	6881.6	4728.2	3112.7	2711.0	2549.7	2490.5	2445.7	2343.5	2244.9	2171.3	2162.4
40°	7249.2	4764.0	2965.6	2605.2	2472.6	2461.8	2400.8	2273.5	2103.2	2020.7	2013.6
42.5°	7591.6	4774.8	2811.4	2492.3	2402.6	2397.3	2329.1	2131.9	2001.0	1949.0	1941.8
45°	7826.5	4765.8	2651.9	2386.5	2332.7	2304.0	2232.3	2029.7	1949.0	1902.4	1893.4
47.5°	8000.4	4719.2	2472.6	2275.3	2253.8	2214.4	2060.2	1965.1	1889.8	1843.2	1834.3
50°	7969.9	4525.6	2291.5	2167.8	2158.8	2124.7	1934.7	1884.5	1818.1	1767.9	1760.7
52.5°	7812.2	4158.0	2106.8	2049.4	2067.3	2001.0	1845.0	1787.6	1730.3	1672.9	1660.3
55°	7851.6	3892.6	1966.9	1934.7	1966.9	1816.3	1744.6	1683.6	1629.8	1574.3	1563.5
57.5°	8023.7	3630.9	1818.1	1810.9	1845.0	1674.7	1615.5	1538.4	1461.3	1416.5	1416.5
60°	6738.1	2646.5	1556.3	1574.3	1651.4	1559.9	1507.9	1429.0	1344.8	1305.3	1305.3
62.5°	3984.1	1660.3	1291.0	1271.2	1319.7	1377.0	1405.7	1341.2	1240.8	1188.8	1190.6
65°	1755.4	1208.5	1138.6	1122.4	1108.1	1147.5	1226.4	1231.8	1126.0	1065.0	1066.8
67.5°	1081.2	1093.7	1065.0	1052.5	1039.9	1032.8	1025.6	1029.2	1000.5	944.9	943.1
70°	975.4	1009.5	989.7	979.0	962.8	950.3	907.3	837.3	788.9	774.6	790.7
72.5°	839.1	885.7	875.0	869.6	849.9	819.4	762.0	693.9	636.5	600.7	607.8
75°	632.9	670.6	676.0	677.8	656.2	627.6	568.4	511.0	460.8	423.2	432.1
77.5°	364.0	385.5	390.9	396.3	380.1	369.4	329.9	288.7	261.8	222.3	233.1
80°	202.6	211.6	211.6	213.4	204.4	191.9	165.0	141.6	129.1	111.2	113.0
82.5°	121.9	125.5	127.3	129.1	123.7	111.2	91.4	75.3	68.1	59.2	57.4
85°	59.2	62.8	62.8	64.5	55.6	48.4	37.7	28.7	25.1	17.9	19.7
87.5°	14.3	16.1	16.1	14.3	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)