

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: P638738

Luminaire Tested: GWS-SA4F-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638738  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-740-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

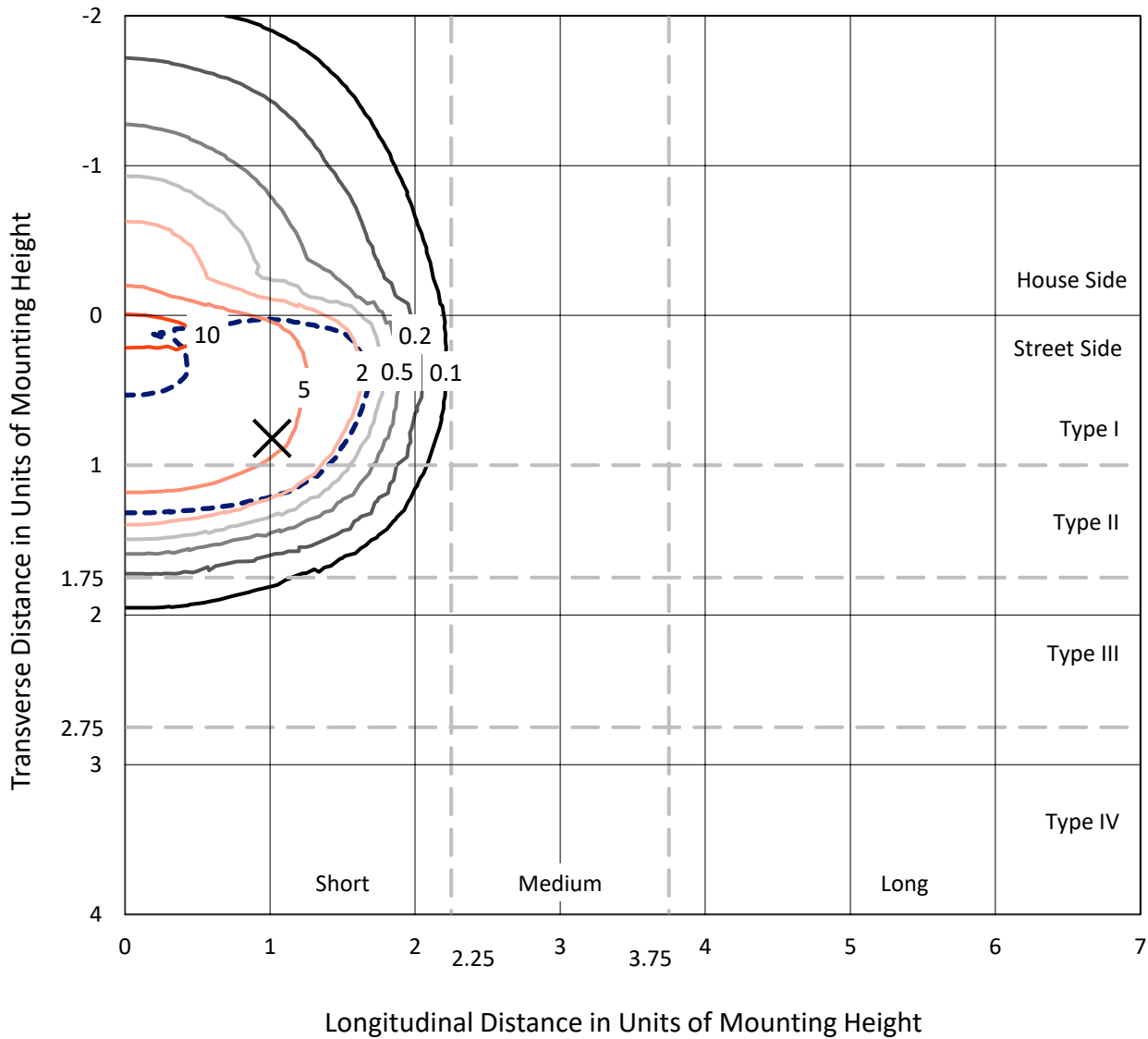
Lumens per Lamp: N/A  
Luminaire Lumens: 30867.1 lumens  
Efficiency: N/A  
Efficacy: 137.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

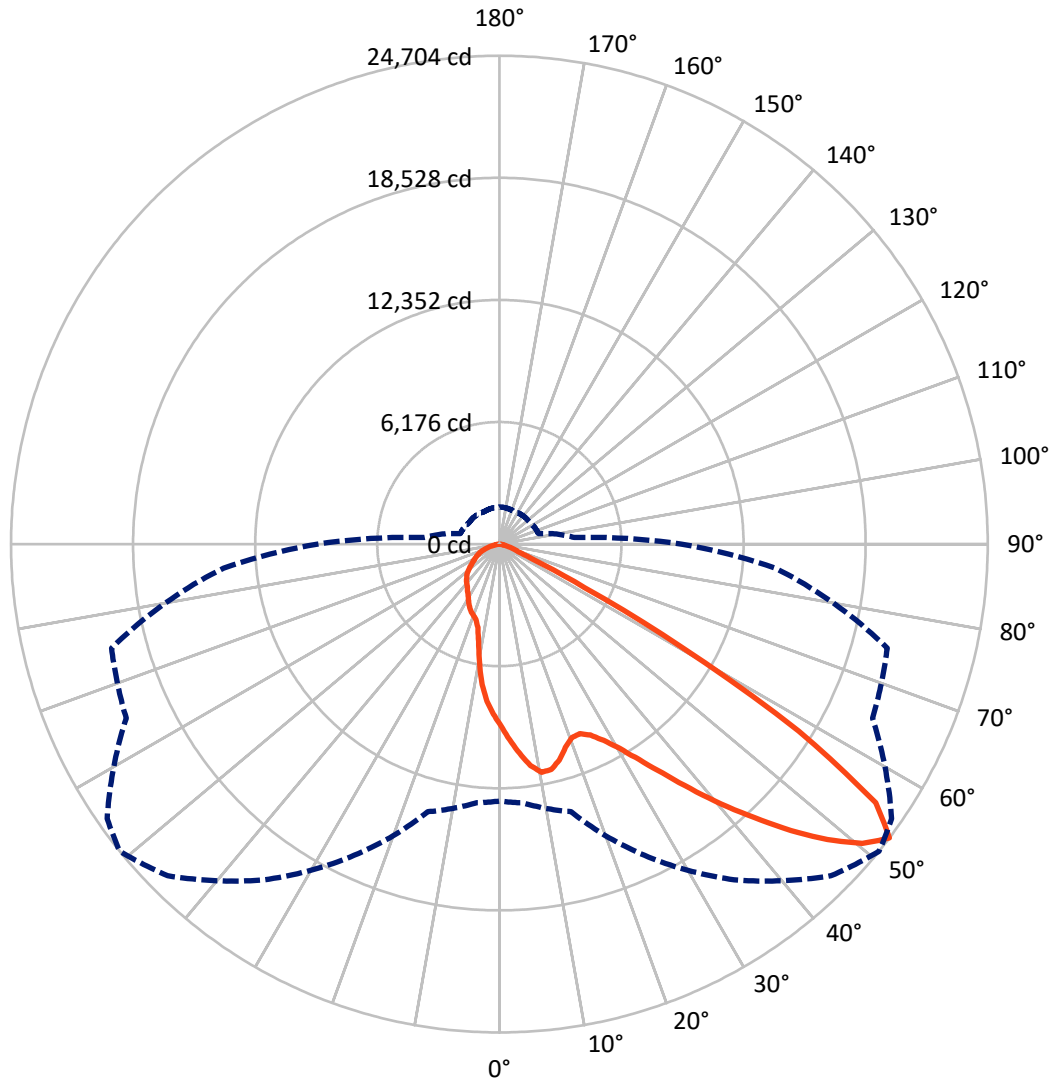
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6014.2	0.0	6014.2
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	24852.9	0.0	24852.9
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	30867.1	0.0	30867.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	857.6	2.8
10°-20°	2228.4	7.2
20°-30°	3623.2	11.7
30°-40°	5742.0	18.6
40°-50°	8660.2	28.1
50°-60°	7491.8	24.3
60°-70°	1698.5	5.5
70°-80°	500.8	1.6
80°-90°	64.5	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°	30867.1	100.0
0°-180°	30867.1	100.0

**Coefficient of Utilization**



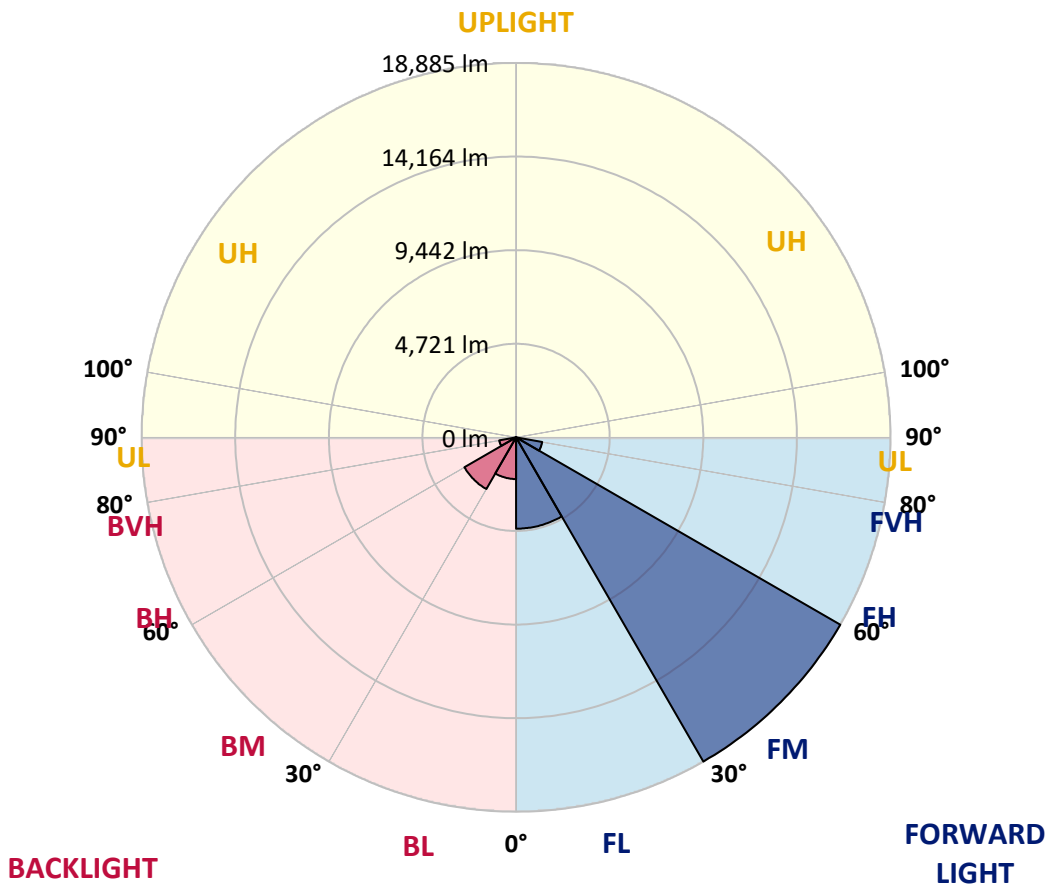
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4607.0	14.9			
FM (30°-60°)	18884.9	61.2			
FH (60°-80°)	1336.7	4.3			G1/1800
FVH (80°-90°)	24.3	0.1			G1/100
BL (0°-30°)	2102.3	6.8	B3/2500		
BM (30°-60°)	3009.1	9.7	B3/5000		
BH (60°-80°)	862.6	2.8	B2/1000		G2/1000
BVH (80°-90°)	40.2	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°	51°	55°	65°	75°	85°
0°	9190.7	9190.7	9190.7	9190.7	9190.7	9190.7	9190.7	9190.7	9190.7	9190.7	9190.7
2.5°	10241.9	10300.5	10210.2	10176.1	10120.0	10022.4	9910.2	9878.5	9637.0	9478.5	9300.4
5°	11271.3	11303.0	11229.8	11156.6	11017.6	10844.4	10627.3	10581.0	10141.9	9778.5	9400.4
7.5°	11500.5	11488.3	11551.8	11593.2	11576.2	11507.9	11315.2	11224.9	10700.5	10124.9	9566.3
10°	10593.2	10524.9	10759.0	11037.1	11371.3	11756.6	11734.7	11727.4	11271.3	10590.7	9778.5
12.5°	9390.7	9356.5	9546.8	9895.6	10527.3	11381.0	11700.5	11949.3	11785.9	11034.7	10015.1
15°	8702.8	8690.7	8819.9	9071.2	9573.6	10651.7	11334.7	11827.4	12227.4	11510.3	10266.3
17.5°	8578.5	8585.8	8629.7	8773.6	9134.6	10022.4	10812.7	11500.5	12571.3	12032.3	10581.0
20°	8941.9	8990.7	8915.1	8937.0	9132.1	9795.6	10456.6	11171.3	12790.8	12556.7	10920.0
22.5°	9749.2	9732.2	9566.3	9468.7	9471.2	9934.6	10417.6	11017.6	12934.8	13066.5	11227.4
25°	10663.9	10644.4	10446.8	10229.7	10093.2	10312.7	10698.1	11181.0	13064.0	13532.3	11473.7
27.5°	11744.5	11683.5	11464.0	11185.9	10883.4	10978.6	11239.6	11622.5	13264.0	13990.9	11637.1
30°	12790.8	12861.6	12546.9	12217.6	11898.1	11839.6	11990.8	12337.2	13671.4	14527.5	11832.3
32.5°	14178.7	14154.3	13805.5	13376.2	12920.1	12876.2	12995.7	13312.8	14403.1	15269.0	12129.8
35°	15859.3	15864.2	15369.0	14788.5	14139.7	14022.6	14222.6	14530.0	15493.4	16273.9	12600.6
37.5°	17605.7	17598.4	17166.7	16508.1	15622.7	15456.8	15686.1	15915.4	16856.9	17642.3	13332.3
40°	18830.2	18878.9	18676.5	18330.1	17491.1	17086.2	17288.6	17447.2	18339.9	19252.1	14295.8
42.5°	19525.3	19598.5	19642.4	19849.7	19408.2	18976.5	18903.3	18986.3	19664.3	20747.3	15200.7
45°	19674.1	19771.7	20091.2	20859.5	21030.3	20908.3	20669.3	20469.3	20652.2	21808.3	15793.4
47.5°	19018.0	19188.7	19871.7	21215.6	22213.2	22596.2	22330.3	22025.4	21222.9	22081.5	15732.4
50°	16417.8	16617.9	18157.0	20488.8	22381.5	23776.7	23801.1	23349.9	21154.7	21293.7	14966.6
52.5°	12998.2	13134.8	14015.3	17369.1	20730.2	23727.9	24703.6	24220.7	20825.4	20308.3	14008.0
55°	7768.7	7988.2	8810.2	11459.1	16149.5	21030.3	23108.4	23342.6	20664.4	19481.4	13354.3
57.5°	2622.1	2729.4	3514.8	5061.2	9517.5	15398.3	17854.5	18805.8	18759.4	18217.9	12078.6
60°	1248.8	1273.2	1431.8	1919.6	3809.9	8046.7	10568.8	11666.4	12666.4	12766.5	7515.0
62.5°	951.3	965.9	1046.4	1151.3	1531.8	3390.4	4844.1	5683.2	6071.0	5210.0	2736.7
65°	795.2	807.4	868.3	934.2	1041.5	1468.4	1858.6	2144.0	1931.8	1504.9	1304.9
67.5°	663.4	673.2	719.5	790.3	863.5	983.0	1031.8	1061.0	1112.2	1248.8	1200.1
70°	519.5	529.3	578.1	639.1	709.8	739.1	785.4	814.7	917.1	1092.7	1087.9
72.5°	400.0	412.2	439.0	478.1	536.6	565.9	617.1	651.3	709.8	851.3	909.8
75°	292.7	300.0	324.4	336.6	343.9	336.6	387.8	426.8	504.9	558.6	573.2
77.5°	119.5	134.2	129.3	129.3	153.7	185.4	212.2	236.6	290.3	322.0	324.4
80°	48.8	53.7	63.4	70.7	85.4	109.8	126.8	136.6	161.0	180.5	195.1
82.5°	29.3	31.7	36.6	39.0	48.8	63.4	73.2	80.5	100.0	119.5	126.8
85°	14.6	14.6	17.1	19.5	24.4	29.3	34.1	39.0	51.2	63.4	70.7
87.5°	2.4	2.4	2.4	4.9	7.3	9.8	12.2	14.6	17.1	19.5	24.4
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°	9190.7	9190.7	9190.7	9190.7	9190.7	9190.7	9190.7	9190.7	9190.7	9190.7	9190.7
2.5°	9195.6	9063.8	8910.2	8788.2	8646.7	8541.9	8393.1	8300.4	8212.6	8139.4	8085.7
5°	9205.3	8983.3	8663.8	8380.9	8088.2	7810.1	7524.7	7293.0	7085.7	6912.5	6897.9
7.5°	9261.4	8941.9	8441.9	7946.7	7376.0	6824.7	6273.5	5824.7	5483.2	5305.1	5268.5
10°	9356.5	8937.0	8215.0	7424.7	6451.5	5563.7	4910.0	4568.5	4370.9	4300.2	4275.8
12.5°	9456.5	8924.8	7924.8	6688.1	5336.8	4558.8	4200.2	4158.7	4195.3	4200.2	4197.8
15°	9578.5	8917.5	7558.9	5824.7	4522.2	4092.9	4117.3	4205.1	4290.4	4310.0	4310.0
17.5°	9727.3	8900.4	7061.3	4980.7	4012.4	4002.6	4131.9	4249.0	4329.5	4344.1	4344.1
20°	9883.4	8856.5	6449.1	4292.9	3805.1	3946.5	4085.6	4175.8	4231.9	4251.4	4253.9
22.5°	9990.7	8739.4	5744.2	3783.1	3675.8	3839.2	3939.2	4031.9	4031.9	3983.1	3968.5
25°	10012.7	8488.2	4980.7	3434.3	3522.1	3673.3	3775.8	3722.1	3622.1	3583.1	3580.7
27.5°	9932.2	8122.3	4227.0	3185.5	3336.7	3488.0	3470.9	3392.8	3348.9	3309.9	3324.5
30°	9834.6	7683.3	3573.3	2980.6	3122.1	3270.9	3212.3	3185.5	3153.8	3109.9	3119.7
32.5°	9768.8	7193.0	3070.9	2822.1	2978.2	3002.6	3044.0	3041.6	3012.3	2929.4	2924.5
35°	9788.3	6697.9	2734.3	2692.8	2858.7	2848.9	2927.0	2912.3	2709.9	2595.2	2587.9
37.5°	9944.4	6222.2	2536.7	2590.4	2668.4	2729.4	2797.7	2622.1	2551.3	2478.2	2483.0
40°	10241.9	5780.8	2429.4	2534.3	2553.8	2644.0	2485.5	2483.0	2451.3	2385.5	2383.0
42.5°	10578.5	5407.6	2356.2	2507.4	2480.6	2497.7	2329.4	2348.9	2346.5	2305.0	2292.8
45°	10783.4	5063.7	2297.7	2407.4	2414.7	2244.0	2192.8	2214.7	2226.9	2205.0	2202.5
47.5°	10571.2	4668.5	2236.7	2253.8	2317.2	2129.4	2066.0	2068.4	2090.3	2092.8	2083.0
50°	9976.1	4227.0	2163.5	2122.1	2080.6	2009.9	1951.3	1939.1	1961.1	1983.0	1990.3
52.5°	9207.7	3805.1	2041.6	1978.1	1880.6	1880.6	1853.7	1814.7	1844.0	1873.3	1883.0
55°	8644.3	3492.8	1868.4	1797.6	1690.3	1726.9	1722.0	1687.9	1726.9	1748.9	1756.2
57.5°	7490.6	2807.4	1644.0	1622.0	1531.8	1575.7	1585.4	1541.5	1522.0	1526.9	1534.2
60°	4446.6	1812.3	1483.0	1480.6	1400.1	1451.3	1480.6	1436.7	1378.1	1385.4	1395.2
62.5°	1995.2	1385.4	1280.5	1270.8	1268.4	1334.2	1365.9	1324.5	1241.5	1248.8	1258.6
65°	1256.2	1197.6	1112.2	1112.2	1151.3	1207.4	1231.8	1197.6	1102.5	1090.3	1100.1
67.5°	1165.9	1114.7	1026.9	1009.8	1029.3	1075.7	1078.1	1012.2	956.1	946.4	946.4
70°	1046.4	1007.4	922.0	887.8	880.5	878.1	870.8	853.7	817.1	807.4	812.2
72.5°	865.9	839.1	785.4	748.8	729.3	726.9	697.6	683.0	651.3	646.4	643.9
75°	573.2	580.5	580.5	575.6	558.6	551.2	519.5	504.9	468.3	453.7	451.2
77.5°	339.0	346.4	356.1	358.6	356.1	356.1	326.8	309.8	273.2	253.7	248.8
80°	207.3	212.2	217.1	224.4	214.6	207.3	180.5	163.4	146.3	134.2	131.7
82.5°	134.2	139.0	141.5	146.3	141.5	131.7	109.8	100.0	87.8	78.1	75.6
85°	75.6	78.1	82.9	82.9	75.6	68.3	56.1	48.8	41.5	36.6	36.6
87.5°	26.8	26.8	26.8	29.3	24.4	22.0	14.6	9.8	7.3	7.3	7.3
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)