

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: P636238

Luminaire Tested: GWS-SA3F-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636238
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21224.1 lumens
Efficiency: N/A
Efficacy: 115.9 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

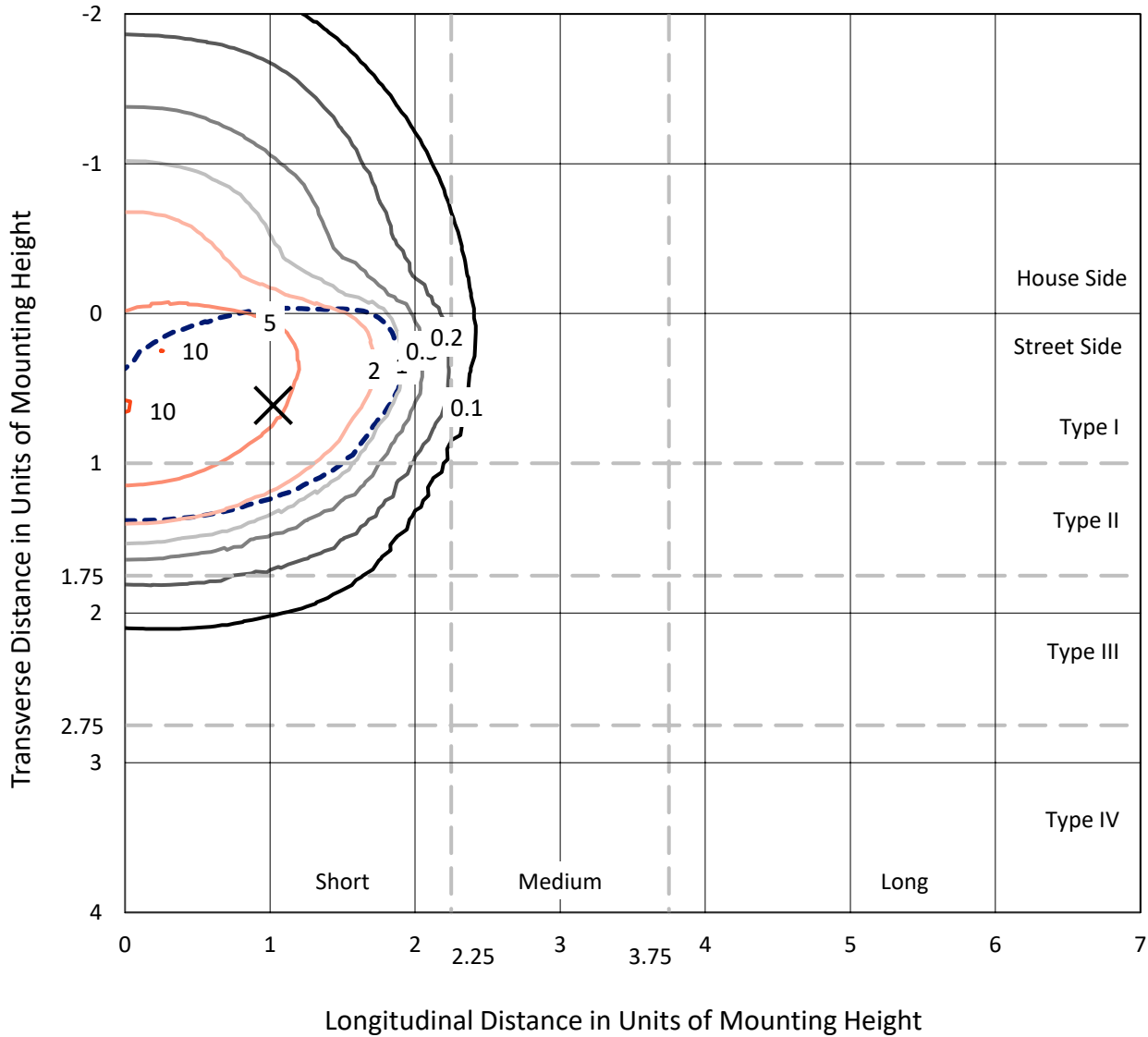
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

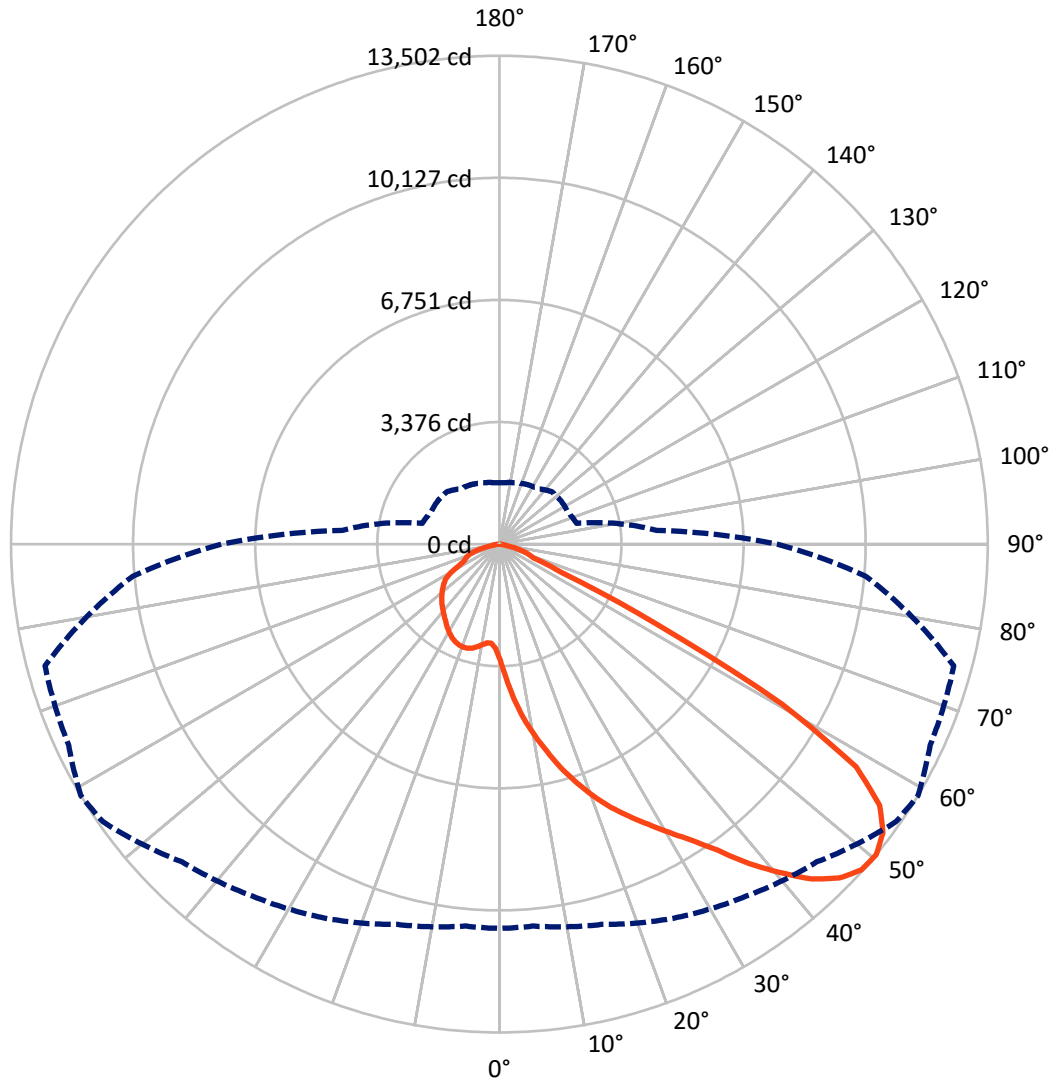
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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
House Side	Lumens	4881.9	0.0	4881.9
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	16342.2	0.0	16342.2
	% Fixture	77.0	0.0	77.0
Total	Lumens	21224.1	0.0	21224.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.7	1.7
10°-20°	1309.5	6.2
20°-30°	2479.7	11.7
30°-40°	4112.2	19.4
40°-50°	5617.4	26.5
50°-60°	5099.2	24.0
60°-70°	1698.1	8.0
70°-80°	495.3	2.3
80°-90°	52.0	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°	21224.1	100.0
0°-180°	21224.1	100.0

Coefficient of Utilization



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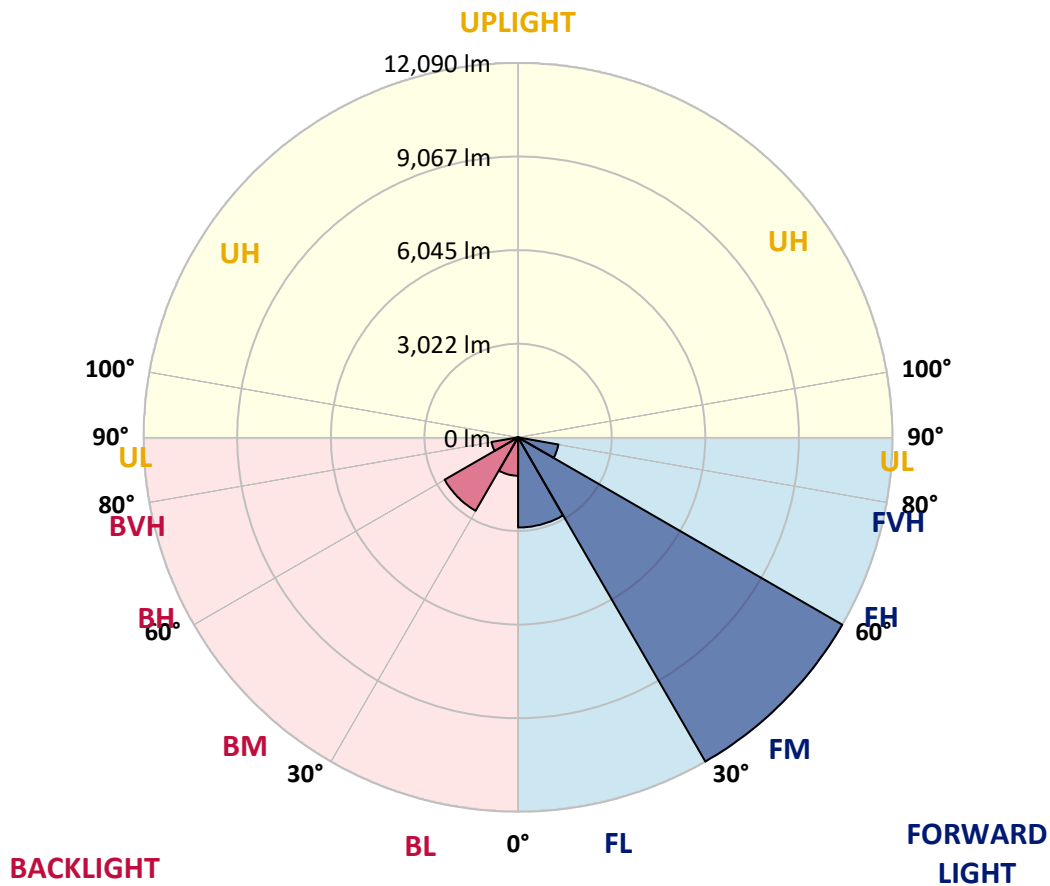
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2910.3	13.7			
FM (30°-60°)	12089.5	57.0			
FH (60°-80°)	1322.0	6.2			G1/1800
FVH (80°-90°)	20.3	0.1			G1/100
BL (0°-30°)	1239.6	5.8	B3/2500		
BM (30°-60°)	2739.2	12.9	B3/5000		
BH (60°-80°)	871.4	4.1	B2/1000		G2/1000
BVH (80°-90°)	31.7	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°	3215.6	3215.6	3215.6	3215.6	3215.6	3215.6	3215.6	3215.6	3215.6	3215.6	3215.6
2.5°	4166.5	4197.6	4149.2	4152.6	4031.6	3976.3	3820.7	3729.1	3668.6	3499.1	3345.3
5°	5006.7	4970.4	4932.3	4909.8	4804.4	4655.7	4462.1	4308.2	4166.5	3834.5	3514.7
7.5°	5521.8	5502.8	5476.9	5463.1	5359.3	5203.7	5010.1	4878.7	4673.0	4223.5	3720.4
10°	5959.2	5936.8	5921.2	5931.6	5846.9	5746.6	5535.7	5385.3	5153.6	4635.0	3969.4
12.5°	6298.1	6310.2	6315.4	6370.7	6334.4	6273.9	6056.0	5897.0	5639.4	5068.9	4261.5
15°	6566.1	6562.6	6623.1	6728.6	6787.3	6749.3	6574.7	6441.6	6126.9	5495.9	4576.2
17.5°	6628.3	6631.7	6726.8	6911.8	7103.7	7197.1	7098.5	6939.5	6628.3	5917.7	4902.9
20°	6678.4	6685.3	6783.9	6994.8	7274.9	7535.9	7551.5	7437.4	7169.4	6374.2	5234.9
22.5°	6994.8	7010.4	7036.3	7169.4	7421.8	7752.0	7933.5	7909.3	7684.6	6853.0	5592.7
25°	7826.4	7779.7	7653.5	7615.4	7712.3	7980.2	8289.7	8336.4	8225.7	7380.3	5978.3
27.5°	8853.3	8803.1	8616.4	8419.3	8210.2	8303.5	8633.7	8773.8	8775.5	7961.2	6365.5
30°	9785.1	9745.3	9593.2	9311.4	8950.1	8815.2	9059.0	9247.4	9359.8	8632.0	6806.4
32.5°	10582.1	10545.8	10340.1	10110.1	9757.4	9486.0	9574.2	9755.7	10018.5	9499.9	7354.4
35°	11252.9	11216.6	11019.5	10787.8	10461.1	10298.6	10267.4	10391.9	10732.5	10405.8	7983.7
37.5°	11797.5	11761.1	11555.4	11337.6	11088.6	11099.0	11145.7	11206.2	11401.6	11375.6	8656.2
40°	12150.1	12112.1	11965.1	11809.6	11652.2	11776.7	12008.4	11935.8	12039.5	12158.8	9275.1
42.5°	12307.5	12259.0	12174.3	12139.8	12091.4	12285.0	12731.0	12658.4	12533.9	12680.9	9735.0
45°	12150.1	12108.6	12106.9	12212.4	12324.7	12573.7	13230.6	13171.9	12857.2	12933.3	10009.9
47.5°	11667.8	11631.5	11730.0	12006.6	12283.3	12646.3	13453.7	13464.0	13087.2	13038.7	10187.9
50°	10625.3	10601.1	10886.4	11410.2	11887.4	12419.8	13382.8	13502.1	13142.5	13005.9	10165.4
52.5°	8505.8	8618.2	9238.8	10113.6	11040.2	12022.2	13120.0	13275.6	12876.2	12789.8	10044.4
55°	5822.7	5874.5	6495.2	7772.8	9242.3	11161.2	12516.6	12756.9	12561.6	12753.5	10170.6
57.5°	3015.1	3056.5	3545.8	4679.9	6268.7	8820.4	10841.4	11629.8	11927.1	12936.7	10563.1
60°	1237.8	1272.4	1474.7	2022.7	3162.0	5136.3	7802.2	8970.8	9669.3	11814.7	9380.6
62.5°	899.0	916.3	1013.1	1206.7	1656.2	2517.2	4415.4	4845.9	5336.9	7404.5	5955.8
65°	757.2	776.2	854.0	971.6	1208.4	1543.8	1886.1	1896.5	2090.1	3016.8	2207.7
67.5°	634.5	651.8	720.9	821.2	976.8	1096.1	1013.1	1014.8	1011.4	1094.3	1058.0
70°	494.4	508.3	577.4	684.6	765.9	703.6	791.8	876.5	840.2	873.1	923.2
72.5°	361.3	376.9	437.4	518.6	497.9	501.4	641.4	727.8	707.1	743.4	790.1
75°	261.1	271.4	302.5	259.3	273.2	330.2	451.2	497.9	518.6	549.8	591.3
77.5°	84.7	84.7	95.1	119.3	148.7	183.3	229.9	248.9	280.1	314.6	344.0
80°	43.2	44.9	53.6	65.7	83.0	105.5	134.8	143.5	159.1	178.1	190.2
82.5°	20.7	22.5	25.9	32.8	43.2	55.3	74.3	83.0	93.4	105.5	114.1
85°	5.2	5.2	6.9	10.4	13.8	20.7	27.7	32.8	41.5	50.1	55.3
87.5°	0.0	0.0	0.0	0.0	0.0	1.7	5.2	6.9	8.6	10.4	13.8
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°	3215.6	3215.6	3215.6	3215.6	3215.6	3215.6	3215.6	3215.6	3215.6	3215.6	3215.6
2.5°	3276.1	3179.3	3054.8	2949.4	2852.5	2778.2	2714.2	2683.1	2653.7	2633.0	2639.9
5°	3366.0	3200.0	2968.4	2807.6	2709.1	2658.9	2624.3	2607.1	2603.6	2589.8	2584.6
7.5°	3497.4	3260.6	2951.1	2788.6	2722.9	2697.0	2677.9	2667.6	2672.8	2658.9	2653.7
10°	3659.9	3360.8	2994.3	2850.8	2793.8	2774.8	2754.0	2740.2	2733.3	2712.5	2709.1
12.5°	3862.2	3485.3	3072.1	2930.3	2873.3	2840.4	2812.8	2788.6	2773.0	2747.1	2740.2
15°	4080.0	3623.6	3163.7	3008.1	2940.7	2892.3	2847.4	2811.1	2783.4	2748.8	2743.6
17.5°	4316.9	3768.8	3239.8	3061.7	2975.3	2911.3	2845.6	2792.0	2754.0	2709.1	2703.9
20°	4564.1	3915.8	3296.9	3087.7	2977.0	2890.6	2802.4	2731.5	2683.1	2638.2	2634.7
22.5°	4819.9	4050.6	3331.4	3080.8	2949.4	2842.2	2736.7	2657.2	2600.1	2546.5	2543.1
25°	5077.5	4180.3	3340.1	3053.1	2894.0	2769.6	2664.1	2570.8	2506.8	2446.3	2439.4
27.5°	5338.6	4289.2	3319.3	2997.8	2819.7	2684.9	2579.4	2487.8	2422.1	2361.6	2351.2
30°	5616.9	4382.6	3274.4	2925.2	2733.3	2595.0	2491.2	2422.1	2359.8	2299.3	2289.0
32.5°	5914.3	4463.8	3210.4	2837.0	2633.0	2505.1	2429.0	2366.8	2304.5	2250.9	2240.5
35°	6268.7	4517.4	3115.3	2722.9	2539.6	2439.4	2387.5	2314.9	2238.8	2180.0	2174.9
37.5°	6635.2	4558.9	3001.2	2614.0	2458.4	2401.3	2358.1	2259.6	2164.5	2093.6	2085.0
40°	6989.6	4593.5	2859.5	2512.0	2384.0	2373.7	2314.9	2192.1	2027.9	1948.4	1941.5
42.5°	7319.8	4603.8	2710.8	2403.1	2316.6	2311.4	2245.7	2055.6	1929.4	1879.2	1872.3
45°	7546.3	4595.2	2556.9	2301.1	2249.2	2221.5	2152.4	1957.0	1879.2	1834.3	1825.6
47.5°	7714.0	4550.2	2384.0	2193.9	2173.1	2135.1	1986.4	1894.8	1822.2	1777.2	1768.6
50°	7684.6	4363.5	2209.4	2090.1	2081.5	2048.6	1865.4	1817.0	1753.0	1704.6	1697.7
52.5°	7532.5	4009.1	2031.4	1976.0	1993.3	1929.4	1779.0	1723.6	1668.3	1613.0	1600.9
55°	7570.5	3753.3	1896.5	1865.4	1896.5	1751.3	1682.1	1623.4	1571.5	1517.9	1507.5
57.5°	7736.5	3500.9	1753.0	1746.1	1779.0	1614.7	1557.7	1483.3	1409.0	1365.8	1365.8
60°	6496.9	2551.7	1500.6	1517.9	1592.2	1504.1	1453.9	1377.9	1296.6	1258.6	1258.6
62.5°	3841.4	1600.9	1244.7	1225.7	1272.4	1327.7	1355.4	1293.2	1196.3	1146.2	1147.9
65°	1692.5	1165.2	1097.8	1082.2	1068.4	1106.4	1182.5	1187.7	1085.7	1026.9	1028.6
67.5°	1042.5	1054.6	1026.9	1014.8	1002.7	995.8	988.9	992.3	964.7	911.1	909.4
70°	940.5	973.3	954.3	943.9	928.4	916.3	874.8	807.4	760.7	746.8	762.4
72.5°	809.1	854.0	843.7	838.5	819.5	790.1	734.7	669.1	613.7	579.2	586.1
75°	610.3	646.6	651.8	653.5	632.7	605.1	548.0	492.7	444.3	408.0	416.6
77.5°	351.0	371.7	376.9	382.1	366.5	356.1	318.1	278.3	252.4	214.4	224.7
80°	195.4	204.0	204.0	205.7	197.1	185.0	159.1	136.6	124.5	107.2	108.9
82.5°	117.6	121.0	122.7	124.5	119.3	107.2	88.2	72.6	65.7	57.1	55.3
85°	57.1	60.5	60.5	62.2	53.6	46.7	36.3	27.7	24.2	17.3	19.0
87.5°	13.8	15.6	15.6	13.8	12.1	8.6	5.2	1.7	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)