

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: P642508

Luminaire Tested: GWS-SA6D-722-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642508
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-SA6D-722-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23222.5 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

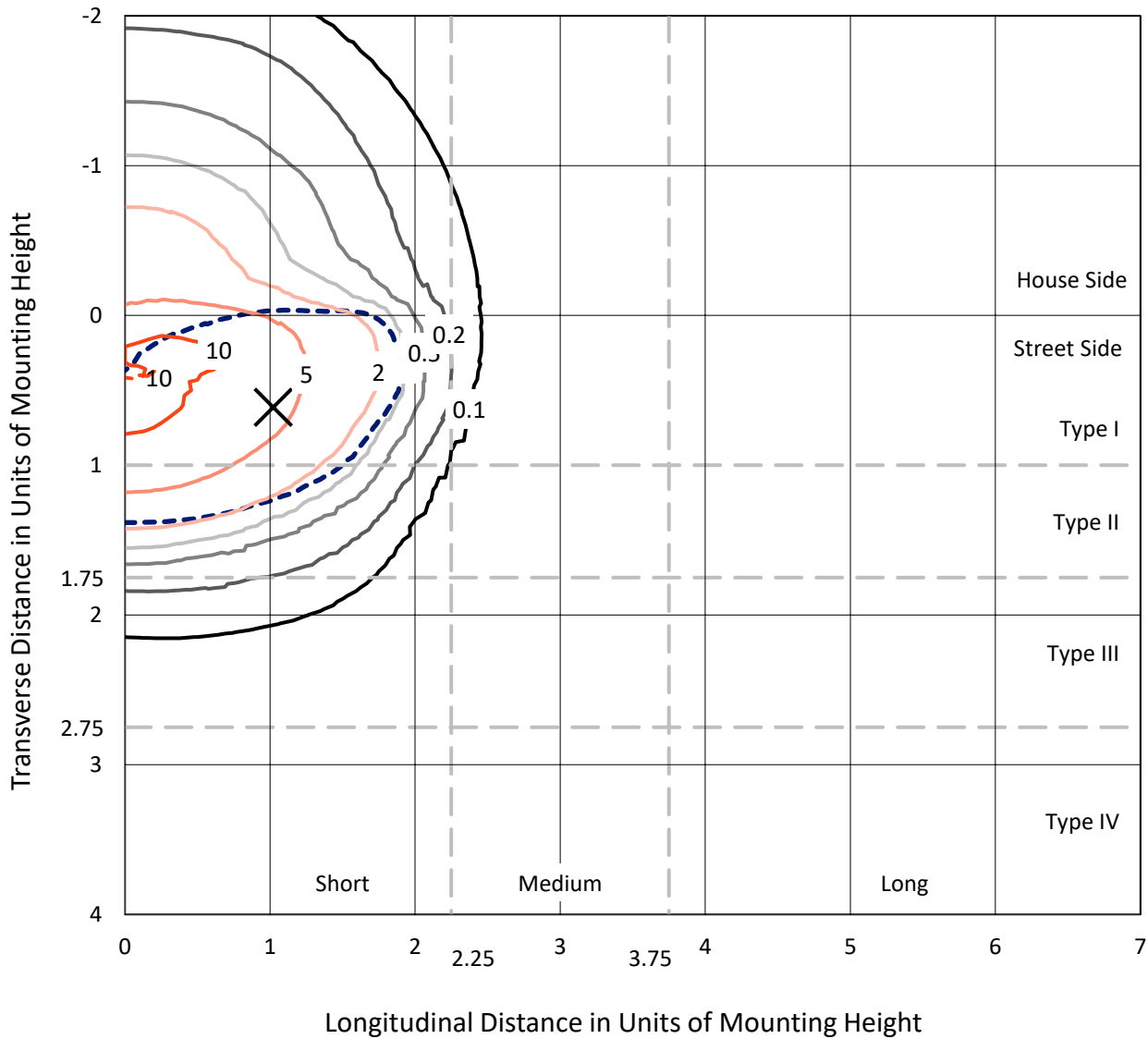
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

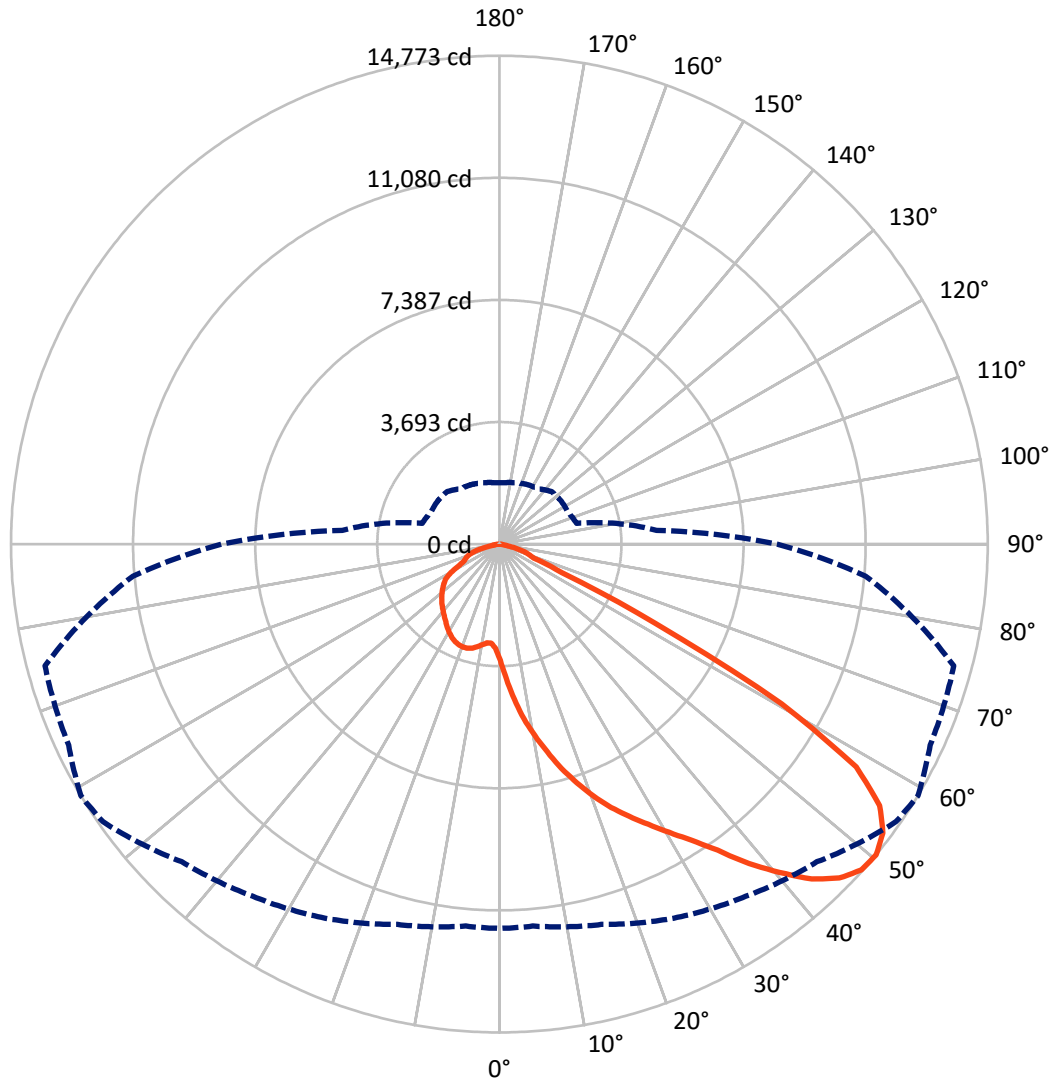
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	5341.6	0.0	5341.6
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	17880.9	0.0	17880.9
	% Fixture	77.0	0.0	77.0
Total	Lumens	23222.5	0.0	23222.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.7	1.7
10°-20°	1432.8	6.2
20°-30°	2713.2	11.7
30°-40°	4499.3	19.4
40°-50°	6146.3	26.5
50°-60°	5579.3	24.0
60°-70°	1858.0	8.0
70°-80°	541.9	2.3
80°-90°	56.9	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°	23222.5	100.0
0°-180°	23222.5	100.0

Coefficient of Utilization



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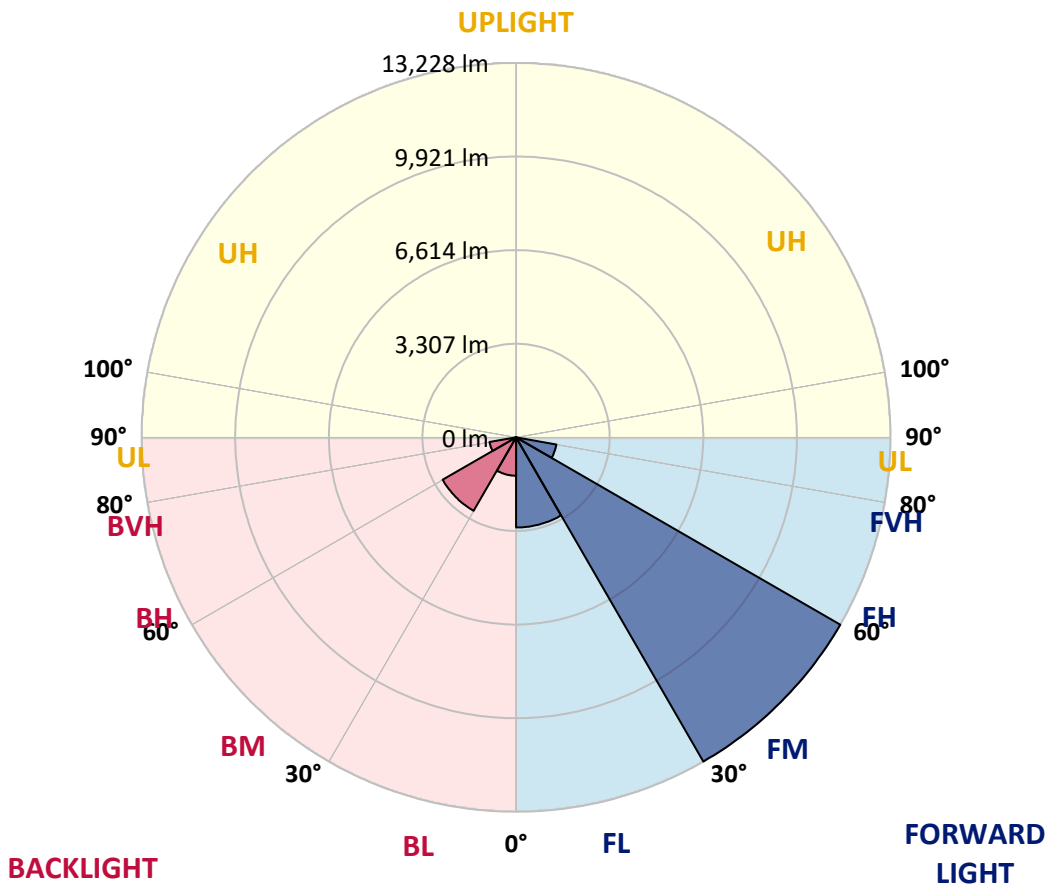
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3184.4	13.7			
FM (30°-60°)	13227.8	57.0			
FH (60°-80°)	1446.4	6.2			G1/1800
FVH (80°-90°)	22.3	0.1			G1/100
BL (0°-30°)	1356.4	5.8	B3/2500		
BM (30°-60°)	2997.2	12.9	B3/5000		
BH (60°-80°)	953.4	4.1	B2/1000		G2/1000
BVH (80°-90°)	34.7	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°	3518.4	3518.4	3518.4	3518.4	3518.4	3518.4	3518.4	3518.4	3518.4	3518.4	3518.4
2.5°	4558.8	4592.8	4539.8	4543.6	4411.2	4350.7	4180.4	4080.2	4014.0	3828.6	3660.2
5°	5478.1	5438.3	5396.7	5372.1	5256.8	5094.1	4882.2	4713.9	4558.8	4195.6	3845.6
7.5°	6041.8	6021.0	5992.6	5977.5	5864.0	5693.7	5481.9	5338.1	5113.0	4621.2	4070.7
10°	6520.3	6495.7	6478.7	6490.1	6397.4	6287.7	6056.9	5892.3	5638.9	5071.4	4343.1
12.5°	6891.1	6904.3	6910.0	6970.5	6930.8	6864.6	6626.3	6452.2	6170.4	5546.2	4662.8
15°	7184.3	7180.5	7246.7	7362.1	7426.4	7384.8	7193.7	7048.1	6703.8	6013.4	5007.1
17.5°	7252.4	7256.2	7360.2	7562.6	7772.6	7874.7	7766.9	7592.9	7252.4	6474.9	5364.6
20°	7307.2	7314.8	7422.6	7653.4	7959.8	8245.5	8262.5	8137.7	7844.5	6974.3	5727.8
22.5°	7653.4	7670.4	7698.8	7844.5	8120.6	8481.9	8680.5	8654.1	8408.2	7498.3	6119.3
25°	8563.3	8512.2	8374.1	8332.5	8438.4	8731.6	9070.2	9121.3	9000.2	8075.2	6541.1
27.5°	9686.9	9632.0	9427.7	9212.1	8983.2	9085.3	9446.6	9599.9	9601.8	8710.8	6964.9
30°	10706.4	10662.9	10496.5	10188.1	9792.8	9645.3	9912.0	10118.2	10241.1	9444.8	7447.2
32.5°	11578.5	11538.8	11313.6	11062.1	10676.2	10379.2	10475.7	10674.3	10961.8	10394.3	8046.9
35°	12312.4	12272.7	12057.0	11803.6	11446.1	11268.3	11234.2	11370.4	11743.0	11385.5	8735.4
37.5°	12908.3	12868.5	12643.4	12405.1	12132.7	12144.1	12195.1	12261.3	12475.1	12446.7	9471.2
40°	13294.2	13252.5	13091.8	12921.5	12749.4	12885.6	13139.0	13059.6	13173.1	13303.6	10148.4
42.5°	13466.3	13413.3	13320.6	13282.8	13229.8	13441.7	13929.7	13850.3	13714.1	13874.9	10651.6
45°	13294.2	13248.8	13246.9	13362.3	13485.2	13757.6	14476.4	14412.1	14067.8	14151.0	10952.4
47.5°	12766.4	12726.7	12834.5	13137.2	13439.8	13837.0	14720.4	14731.8	14319.4	14266.4	11147.2
50°	11625.8	11599.3	11911.4	12484.5	13006.6	13589.2	14642.9	14773.4	14379.9	14230.5	11122.6
52.5°	9306.7	9429.6	10108.7	11065.9	12079.7	13154.2	14355.3	14525.6	14088.6	13994.0	10990.2
55°	6370.9	6427.7	7106.7	8504.6	10112.5	12212.2	13695.2	13958.1	13744.4	13954.3	11128.3
57.5°	3298.9	3344.3	3879.7	5120.6	6858.9	9650.9	11862.2	12724.8	13050.1	14154.8	11557.7
60°	1354.4	1392.2	1613.5	2213.2	3459.7	5619.9	8536.8	9815.5	10579.7	12927.2	10263.8
62.5°	983.6	1002.5	1108.5	1320.3	1812.2	2754.2	4831.1	5302.2	5839.4	8101.7	6516.6
65°	828.5	849.3	934.4	1063.1	1322.2	1689.2	2063.7	2075.1	2286.9	3300.8	2415.6
67.5°	694.2	713.1	788.8	898.5	1068.8	1199.3	1108.5	1110.4	1106.6	1197.4	1157.7
70°	541.0	556.1	631.8	749.1	838.0	769.9	866.4	959.0	919.3	955.3	1010.1
72.5°	395.3	412.4	478.6	567.5	544.8	548.6	701.8	796.4	773.7	813.4	864.5
75°	285.6	297.0	331.0	283.7	298.9	361.3	493.7	544.8	567.5	601.5	646.9
77.5°	92.7	92.7	104.0	130.5	162.7	200.5	251.6	272.4	306.4	344.3	376.4
80°	47.3	49.2	58.6	71.9	90.8	115.4	147.5	157.0	174.0	194.8	208.1
82.5°	22.7	24.6	28.4	35.9	47.3	60.5	81.3	90.8	102.1	115.4	124.8
85°	5.7	5.7	7.6	11.3	15.1	22.7	30.3	35.9	45.4	54.9	60.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.9	5.7	7.6	9.5	11.3	15.1
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°	3518.4	3518.4	3518.4	3518.4	3518.4	3518.4	3518.4	3518.4	3518.4	3518.4	3518.4
2.5°	3584.6	3478.6	3342.5	3227.1	3121.1	3039.8	2969.8	2935.8	2903.6	2880.9	2888.5
5°	3682.9	3501.3	3247.9	3072.0	2964.1	2909.3	2871.4	2852.5	2848.7	2833.6	2827.9
7.5°	3826.7	3567.6	3229.0	3051.1	2979.3	2950.9	2930.1	2918.7	2924.4	2909.3	2903.6
10°	4004.5	3677.3	3276.2	3119.2	3056.8	3036.0	3013.3	2998.2	2990.6	2967.9	2964.1
12.5°	4225.8	3813.5	3361.4	3206.3	3143.8	3107.9	3077.6	3051.1	3034.1	3005.7	2998.2
15°	4464.2	3964.8	3461.6	3291.4	3217.6	3164.6	3115.5	3075.7	3045.5	3007.6	3002.0
17.5°	4723.3	4123.7	3544.9	3350.0	3255.4	3185.5	3113.6	3054.9	3013.3	2964.1	2958.5
20°	4993.8	4284.5	3607.3	3378.4	3257.3	3162.8	3066.3	2988.7	2935.8	2886.6	2882.8
22.5°	5273.8	4432.0	3645.1	3370.8	3227.1	3109.8	2994.4	2907.4	2845.0	2786.3	2782.5
25°	5555.6	4573.9	3654.6	3340.6	3166.5	3030.3	2915.0	2812.8	2742.8	2676.6	2669.0
27.5°	5841.3	4693.1	3631.9	3280.0	3085.2	2937.7	2822.3	2722.0	2650.1	2583.9	2572.6
30°	6145.8	4795.2	3582.7	3200.6	2990.6	2839.3	2725.8	2650.1	2582.0	2515.8	2504.5
32.5°	6471.2	4884.1	3512.7	3104.1	2880.9	2740.9	2657.7	2589.6	2521.5	2462.9	2451.5
35°	6858.9	4942.7	3408.7	2979.3	2778.8	2669.0	2612.3	2532.9	2449.6	2385.3	2379.6
37.5°	7260.0	4988.1	3283.8	2860.1	2689.9	2627.4	2580.1	2472.3	2368.3	2290.7	2281.3
40°	7647.7	5026.0	3128.7	2748.5	2608.5	2597.2	2532.9	2398.5	2218.8	2131.8	2124.3
42.5°	8009.0	5037.3	2966.0	2629.3	2534.7	2529.1	2457.2	2249.1	2111.0	2056.2	2048.6
45°	8256.8	5027.9	2797.7	2517.7	2461.0	2430.7	2355.0	2141.3	2056.2	2007.0	1997.5
47.5°	8440.3	4978.7	2608.5	2400.4	2377.7	2336.1	2173.4	2073.2	1993.7	1944.6	1935.1
50°	8408.2	4774.4	2417.5	2286.9	2277.5	2241.5	2041.0	1988.1	1918.1	1865.1	1857.5
52.5°	8241.7	4386.6	2222.6	2162.1	2181.0	2111.0	1946.5	1885.9	1825.4	1764.9	1751.6
55°	8283.3	4106.7	2075.1	2041.0	2075.1	1916.2	1840.5	1776.2	1719.5	1660.8	1649.5
57.5°	8464.9	3830.5	1918.1	1910.5	1946.5	1766.8	1704.3	1623.0	1541.7	1494.4	1494.4
60°	7108.6	2792.0	1641.9	1660.8	1742.2	1645.7	1590.8	1507.6	1418.7	1377.1	1377.1
62.5°	4203.1	1751.6	1362.0	1341.1	1392.2	1452.7	1483.0	1414.9	1309.0	1254.1	1256.0
65°	1851.9	1274.9	1201.2	1184.1	1169.0	1210.6	1293.9	1299.5	1187.9	1123.6	1125.5
67.5°	1140.6	1153.9	1123.6	1110.4	1097.1	1089.6	1082.0	1085.8	1055.5	996.9	995.0
70°	1029.0	1065.0	1044.2	1032.8	1015.8	1002.5	957.1	883.4	832.3	817.2	834.2
72.5°	885.3	934.4	923.1	917.4	896.6	864.5	803.9	732.0	671.5	633.7	641.3
75°	667.7	707.5	713.1	715.0	692.3	662.1	599.6	539.1	486.1	446.4	455.9
77.5°	384.0	406.7	412.4	418.0	401.0	389.7	348.1	304.5	276.2	234.6	245.9
80°	213.8	223.2	223.2	225.1	215.6	202.4	174.0	149.4	136.2	117.3	119.2
82.5°	128.6	132.4	134.3	136.2	130.5	117.3	96.5	79.4	71.9	62.4	60.5
85°	62.4	66.2	66.2	68.1	58.6	51.1	39.7	30.3	26.5	18.9	20.8
87.5°	15.1	17.0	17.0	15.1	13.2	9.5	5.7	1.9	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)