

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: P637888

Luminaire Tested: GWS-SA4D-760-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637888
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21744.5 lumens
Efficiency: N/A
Efficacy: 134.1 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

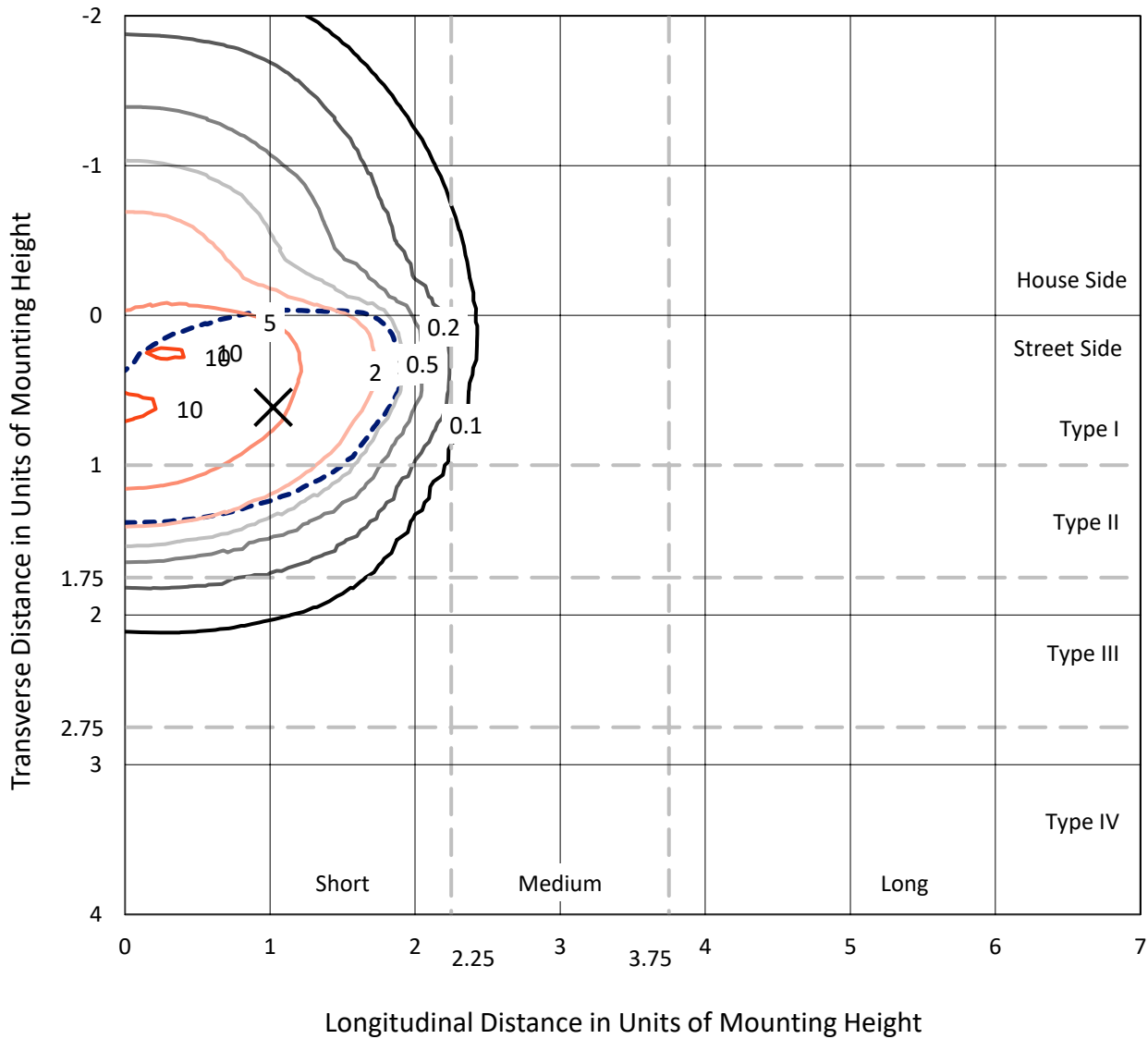


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Iso-Footcandle Lines of Horizontal Illumination

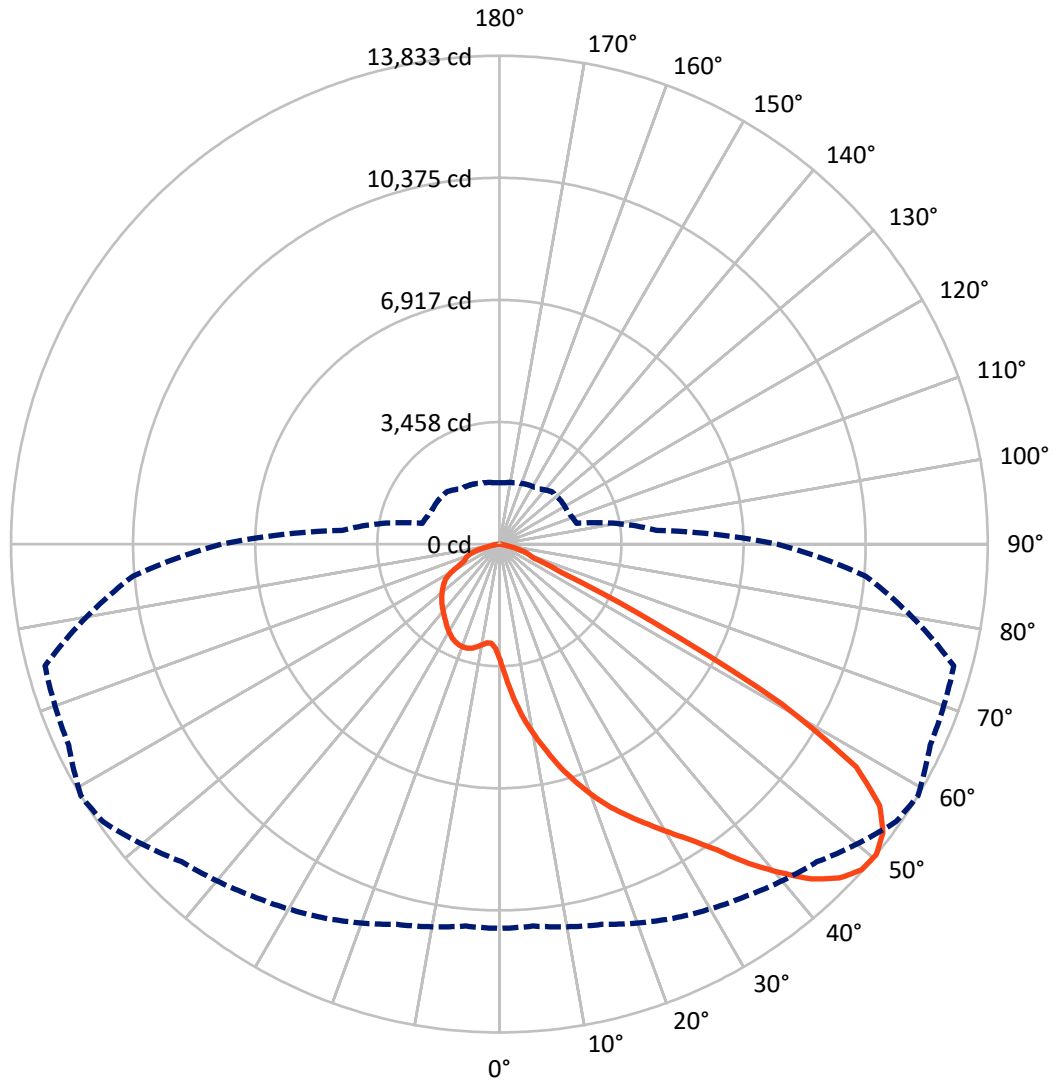
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	5001.6	0.0	5001.6
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	16742.8	0.0	16742.8
	% Fixture	77.0	0.0	77.0
Total	Lumens	21744.5	0.0	21744.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.6	1.7
10°-20°	1341.6	6.2
20°-30°	2540.5	11.7
30°-40°	4213.0	19.4
40°-50°	5755.2	26.5
50°-60°	5224.2	24.0
60°-70°	1739.7	8.0
70°-80°	507.4	2.3
80°-90°	53.3	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°	21744.5	100.0
0°-180°	21744.5	100.0

Coefficient of Utilization



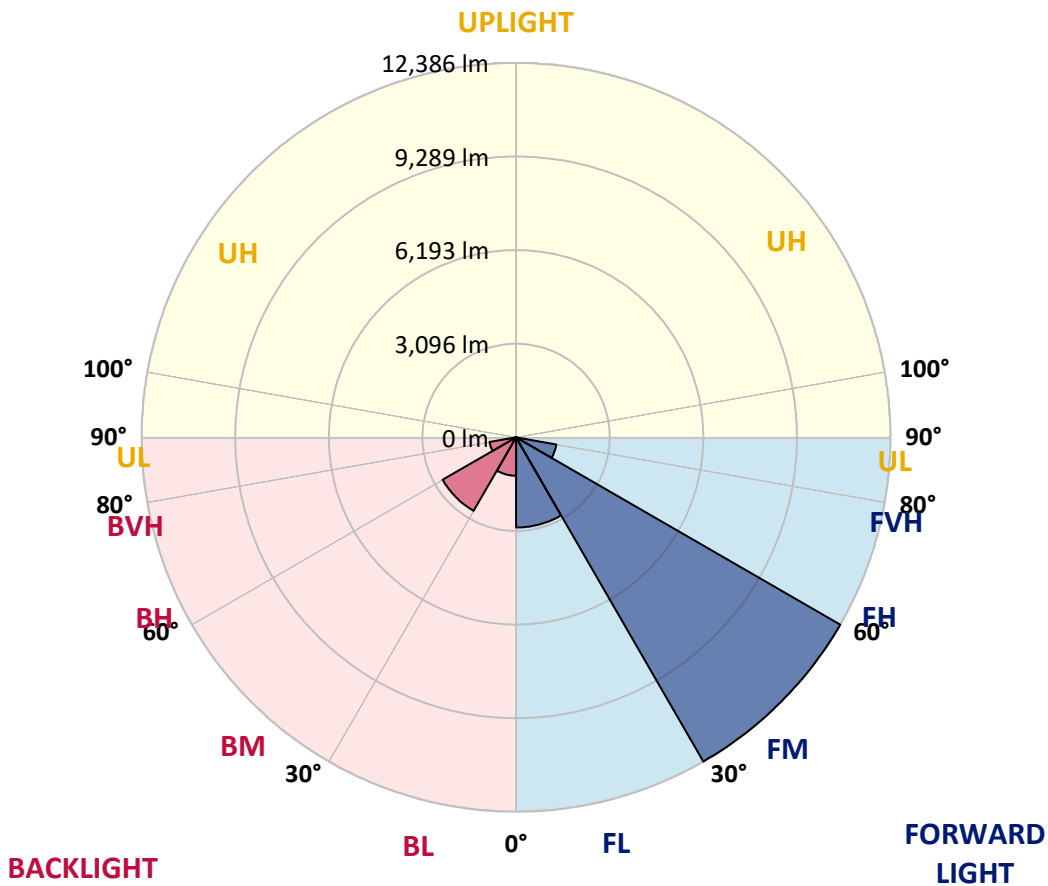
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2981.7	13.7			
FM (30°-60°)	12385.9	57.0			
FH (60°-80°)	1354.4	6.2			G1/1800
FVH (80°-90°)	20.8	0.1			G1/100
BL (0°-30°)	1270.0	5.8	B3/2500		
BM (30°-60°)	2806.4	12.9	B3/5000		
BH (60°-80°)	892.7	4.1	B2/1000		G2/1000
BVH (80°-90°)	32.5	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°	3294.4	3294.4	3294.4	3294.4	3294.4	3294.4	3294.4	3294.4	3294.4	3294.4	3294.4
2.5°	4268.6	4300.5	4250.9	4254.4	4130.5	4073.8	3914.4	3820.5	3758.5	3584.9	3427.3
5°	5129.4	5092.2	5053.3	5030.2	4922.2	4769.9	4571.5	4413.8	4268.6	3928.5	3600.9
7.5°	5657.2	5637.8	5611.2	5597.0	5490.7	5331.3	5133.0	4998.3	4787.6	4327.1	3811.6
10°	6105.4	6082.3	6066.4	6077.0	5990.2	5887.5	5671.4	5517.3	5280.0	4748.6	4066.7
12.5°	6452.5	6464.9	6470.2	6526.9	6489.7	6427.7	6204.5	6041.6	5777.7	5193.2	4366.0
15°	6727.0	6723.5	6785.5	6893.5	6953.8	6914.8	6735.9	6599.5	6277.2	5630.7	4688.4
17.5°	6790.8	6794.4	6891.8	7081.3	7277.9	7373.5	7272.6	7109.6	6790.8	6062.8	5023.1
20°	6842.2	6849.3	6950.2	7166.3	7453.2	7720.7	7736.6	7619.7	7345.2	6530.4	5363.2
22.5°	7166.3	7182.2	7208.8	7345.2	7603.8	7942.1	8128.1	8103.3	7873.0	7021.1	5729.9
25°	8018.3	7970.4	7841.1	7802.2	7901.4	8175.9	8492.9	8540.8	8427.4	7561.3	6124.8
27.5°	9070.4	9019.0	8827.7	8625.8	8411.5	8507.1	8845.4	8988.9	8990.6	8156.4	6521.6
30°	10025.0	9984.3	9828.4	9539.7	9169.5	9031.4	9281.1	9474.2	9589.3	8843.6	6973.2
32.5°	10841.6	10804.4	10593.6	10358.0	9996.7	9718.6	9808.9	9994.9	10264.1	9732.8	7534.7
35°	11528.8	11491.6	11289.7	11052.3	10717.6	10551.1	10519.2	10646.7	10995.7	10660.9	8179.4
37.5°	12086.7	12049.5	11838.7	11615.6	11360.5	11371.2	11419.0	11481.0	11681.1	11654.5	8868.4
40°	12448.0	12409.1	12258.5	12099.1	11937.9	12065.5	12302.8	12228.4	12334.7	12456.9	9502.5
42.5°	12609.2	12559.6	12472.8	12437.4	12387.8	12586.2	13043.2	12968.8	12841.3	12991.8	9973.7
45°	12448.0	12405.5	12403.8	12511.8	12626.9	12882.0	13555.0	13494.8	13172.5	13250.4	10255.3
47.5°	11953.9	11916.7	12017.6	12301.0	12584.4	12956.4	13783.5	13794.2	13408.0	13358.4	10437.7
50°	10885.8	10861.0	11153.3	11690.0	12178.8	12724.4	13710.9	13833.1	13464.7	13324.8	10414.7
52.5°	8714.3	8829.5	9465.3	10361.6	11310.9	12317.0	13441.7	13601.1	13192.0	13103.4	10290.7
55°	5965.4	6018.6	6654.4	7963.3	9468.9	11434.9	12823.5	13069.7	12869.6	13066.2	10420.0
57.5°	3089.0	3131.5	3632.7	4794.7	6422.4	9036.7	11107.2	11914.9	12219.6	13253.9	10822.1
60°	1268.2	1303.6	1510.8	2072.3	3239.5	5262.3	7993.5	9190.8	9906.4	12104.4	9610.6
62.5°	921.0	938.7	1037.9	1236.3	1696.8	2578.9	4523.7	4964.7	5467.7	7586.1	6101.8
65°	775.8	795.3	875.0	995.4	1238.1	1581.7	1932.4	1943.0	2141.4	3090.8	2261.8
67.5°	650.0	667.7	738.6	841.3	1000.7	1122.9	1037.9	1039.7	1036.2	1121.2	1084.0
70°	506.6	520.7	591.6	701.4	784.6	720.9	811.2	898.0	860.8	894.5	945.8
72.5°	370.2	386.1	448.1	531.4	510.1	513.7	657.1	745.7	724.4	761.6	809.4
75°	267.5	278.1	310.0	265.7	279.9	338.3	462.3	510.1	531.4	563.2	605.8
77.5°	86.8	86.8	97.4	122.2	152.3	187.7	235.6	255.1	286.9	322.4	352.5
80°	44.3	46.1	54.9	67.3	85.0	108.0	138.2	147.0	163.0	182.4	194.8
82.5°	21.3	23.0	26.6	33.7	44.3	56.7	76.2	85.0	95.6	108.0	116.9
85°	5.3	5.3	7.1	10.6	14.2	21.3	28.3	33.7	42.5	51.4	56.7
87.5°	0.0	0.0	0.0	0.0	0.0	1.8	5.3	7.1	8.9	10.6	14.2
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°	3294.4	3294.4	3294.4	3294.4	3294.4	3294.4	3294.4	3294.4	3294.4	3294.4	3294.4
2.5°	3356.4	3257.3	3129.7	3021.7	2922.5	2846.3	2780.8	2748.9	2718.8	2697.5	2704.6
5°	3448.5	3278.5	3041.2	2876.4	2775.5	2724.1	2688.7	2671.0	2667.4	2653.3	2648.0
7.5°	3583.2	3340.5	3023.5	2857.0	2789.7	2763.1	2743.6	2733.0	2738.3	2724.1	2718.8
10°	3749.6	3443.2	3067.7	2920.7	2862.3	2842.8	2821.5	2807.4	2800.3	2779.0	2775.5
12.5°	3956.9	3570.8	3147.4	3002.2	2943.7	2910.1	2881.8	2857.0	2841.0	2814.4	2807.4
15°	4180.0	3712.5	3241.3	3081.9	3012.8	2963.2	2917.2	2880.0	2851.6	2816.2	2810.9
17.5°	4422.7	3861.2	3319.2	3136.8	3048.2	2982.7	2915.4	2860.5	2821.5	2775.5	2770.2
20°	4676.0	4011.8	3377.7	3163.4	3050.0	2961.5	2871.1	2798.5	2748.9	2702.9	2699.3
22.5°	4938.1	4149.9	3413.1	3156.3	3021.7	2911.9	2803.8	2722.3	2663.9	2609.0	2605.4
25°	5202.0	4282.8	3422.0	3128.0	2965.0	2837.5	2729.4	2633.8	2568.3	2506.3	2499.2
27.5°	5469.5	4394.4	3400.7	3071.3	2888.8	2750.7	2642.6	2548.8	2481.5	2419.5	2408.8
30°	5754.7	4490.0	3354.7	2996.9	2800.3	2658.6	2552.3	2481.5	2417.7	2355.7	2345.1
32.5°	6059.3	4573.3	3289.1	2906.6	2697.5	2566.5	2488.5	2424.8	2361.0	2306.1	2295.5
35°	6422.4	4628.2	3191.7	2789.7	2601.9	2499.2	2446.0	2371.6	2293.7	2233.5	2228.2
37.5°	6797.9	4670.7	3074.8	2678.1	2518.7	2460.2	2415.9	2315.0	2217.6	2144.9	2136.1
40°	7161.0	4706.1	2929.6	2573.6	2442.5	2431.9	2371.6	2245.9	2077.6	1996.2	1989.1
42.5°	7499.3	4716.7	2777.3	2462.0	2373.4	2368.1	2300.8	2106.0	1976.7	1925.3	1918.2
45°	7731.3	4707.9	2619.6	2357.5	2304.3	2276.0	2205.2	2005.0	1925.3	1879.3	1870.4
47.5°	7903.1	4661.8	2442.5	2247.7	2226.4	2187.4	2035.1	1941.2	1866.9	1820.8	1811.9
50°	7873.0	4470.5	2263.6	2141.4	2132.5	2098.9	1911.1	1861.5	1796.0	1746.4	1739.3
52.5°	7717.2	4107.4	2081.2	2024.5	2042.2	1976.7	1822.6	1765.9	1709.2	1652.5	1640.1
55°	7756.1	3845.3	1943.0	1911.1	1943.0	1794.2	1723.4	1663.2	1610.0	1555.1	1544.5
57.5°	7926.2	3586.7	1796.0	1788.9	1822.6	1654.3	1595.9	1519.7	1443.5	1399.3	1399.3
60°	6656.2	2614.3	1537.4	1555.1	1631.3	1541.0	1489.6	1411.7	1328.4	1289.4	1289.4
62.5°	3935.6	1640.1	1275.3	1255.8	1303.6	1360.3	1388.6	1324.9	1225.7	1174.3	1176.1
65°	1734.0	1193.8	1124.7	1108.8	1094.6	1133.6	1211.5	1216.8	1112.3	1052.1	1053.9
67.5°	1068.0	1080.4	1052.1	1039.7	1027.3	1020.2	1013.1	1016.7	988.3	933.4	931.7
70°	963.5	997.2	977.7	967.1	951.1	938.7	896.2	827.2	779.3	765.2	781.1
72.5°	828.9	875.0	864.3	859.0	839.6	809.4	752.8	685.5	628.8	593.4	600.4
75°	625.2	662.4	667.7	669.5	648.3	619.9	561.5	504.8	455.2	418.0	426.9
77.5°	359.6	380.8	386.1	391.4	375.5	364.9	325.9	285.2	258.6	219.6	230.3
80°	200.1	209.0	209.0	210.8	201.9	189.5	163.0	139.9	127.5	109.8	111.6
82.5°	120.4	124.0	125.8	127.5	122.2	109.8	90.3	74.4	67.3	58.4	56.7
85°	58.4	62.0	62.0	63.8	54.9	47.8	37.2	28.3	24.8	17.7	19.5
87.5°	14.2	15.9	15.9	14.2	12.4	8.9	5.3	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)