

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: P636839

Luminaire Tested: GWS-SA4B-750-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-750-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12344.1 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

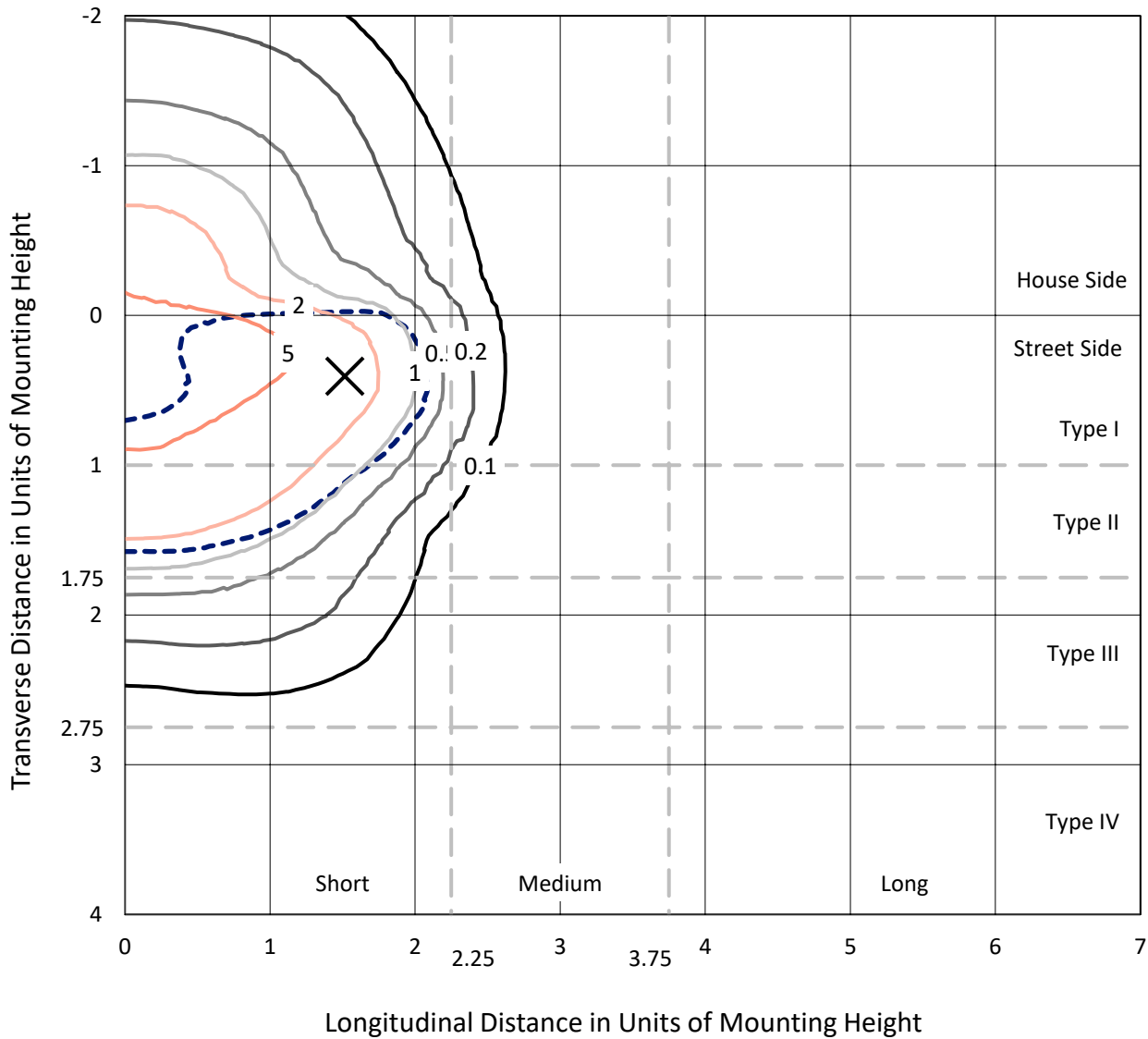
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

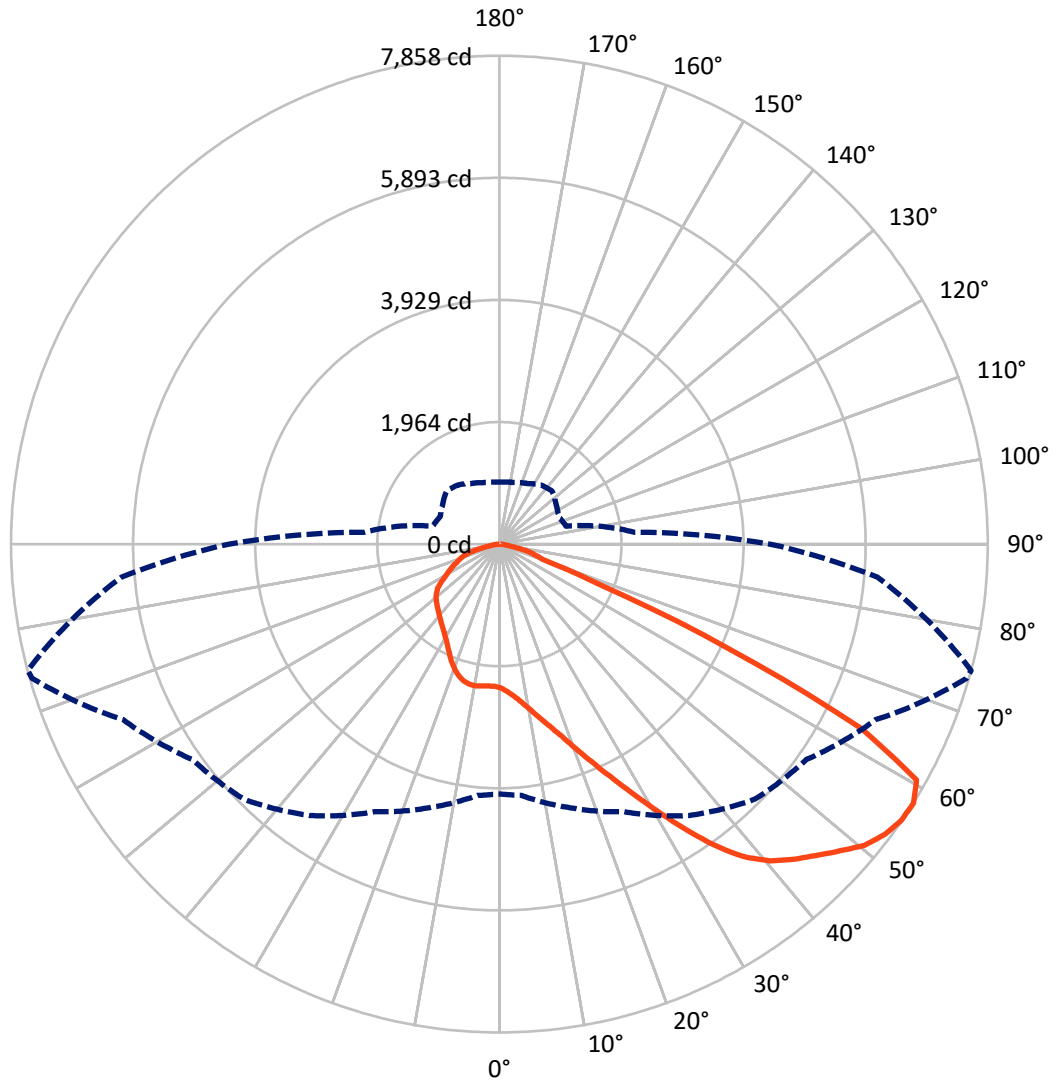
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3339.3	0.0	3339.3
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	9004.8	0.0	9004.8
	% Fixture	72.9	0.0	72.9
Total	Lumens	12344.1	0.0	12344.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.3	1.9
10°-20°	736.5	6.0
20°-30°	1306.2	10.6
30°-40°	1999.6	16.2
40°-50°	2784.3	22.6
50°-60°	3190.2	25.8
60°-70°	1639.2	13.3
70°-80°	412.7	3.3
80°-90°	44.1	0.4
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°	12344.1	100.0
0°-180°	12344.1	100.0

Coefficient of Utilization



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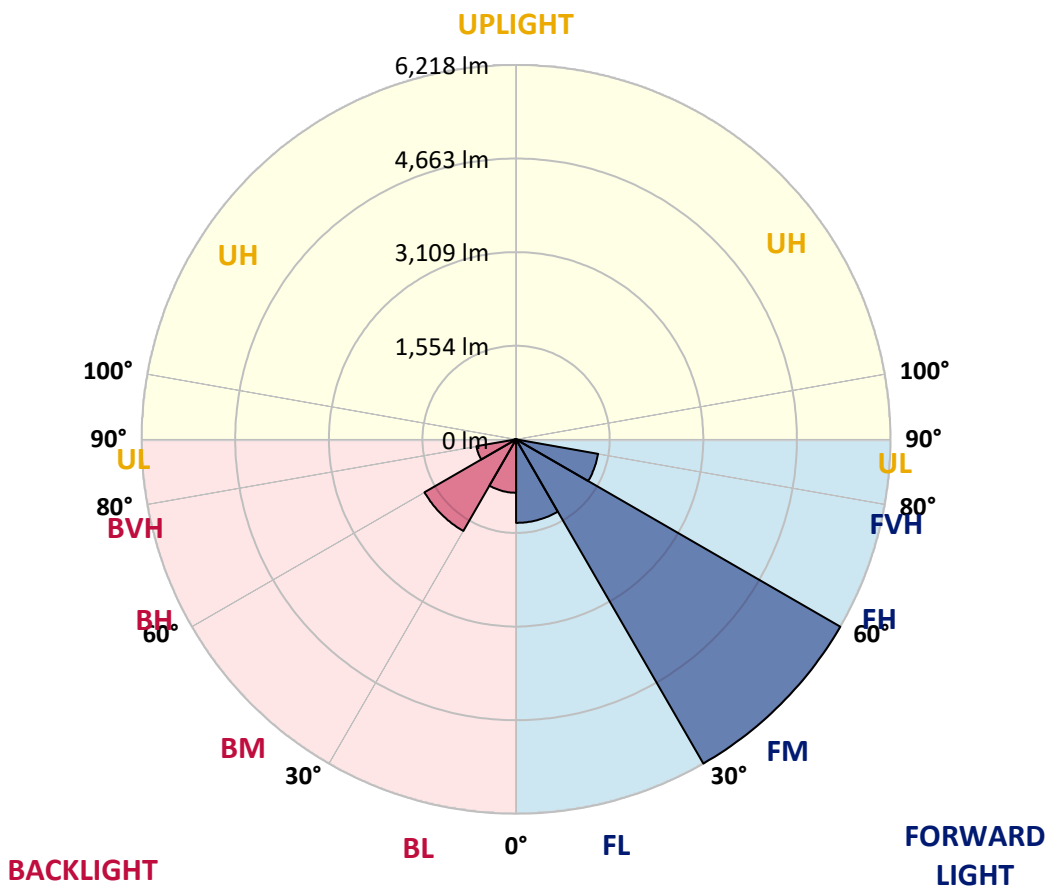
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1386.9	11.2			
FM (30°-60°)	6217.9	50.4			
FH (60°-80°)	1383.7	11.2			G1/1800
FVH (80°-90°)	16.3	0.1			G1/100
BL (0°-30°)	887.1	7.2	B2/1000		
BM (30°-60°)	1756.2	14.2	B2/2500		
BH (60°-80°)	668.2	5.4	B2/1000		G2/1000
BVH (80°-90°)	27.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8
2.5°	2483.7	2490.1	2483.7	2494.3	2473.1	2463.5	2440.2	2405.2	2377.6	2373.3	2342.5
5°	2676.9	2690.7	2682.2	2677.9	2649.3	2628.1	2593.0	2523.0	2465.7	2457.2	2396.7
7.5°	2801.1	2810.6	2810.6	2813.8	2803.2	2778.8	2741.6	2658.8	2578.2	2565.4	2474.1
10°	2842.5	2849.9	2863.7	2890.2	2911.5	2918.9	2894.5	2814.9	2716.2	2703.4	2576.0
12.5°	2852.0	2860.5	2881.7	2930.6	2988.9	3042.0	3046.3	2987.9	2877.5	2863.7	2693.9
15°	2870.1	2878.5	2907.2	2967.7	3053.7	3155.6	3218.2	3177.9	3055.8	3040.9	2827.6
17.5°	2867.9	2877.5	2919.9	3000.6	3116.3	3263.8	3384.8	3401.8	3275.5	3250.0	2979.4
20°	2862.6	2871.1	2916.8	3015.5	3158.8	3361.5	3580.1	3668.2	3532.4	3509.0	3156.6
22.5°	2905.1	2914.6	2949.7	3031.4	3181.0	3436.8	3760.6	3972.9	3837.0	3804.1	3360.4
25°	3000.6	3014.4	3035.6	3091.9	3221.4	3503.7	3945.3	4317.8	4178.8	4139.5	3582.3
27.5°	3148.1	3165.1	3194.8	3221.4	3311.6	3588.6	4128.9	4704.2	4565.1	4523.7	3816.8
30°	3328.6	3350.9	3389.1	3407.1	3468.7	3713.9	4328.4	5102.2	5021.5	4964.2	4081.1
32.5°	3578.0	3608.8	3644.9	3650.2	3687.3	3903.9	4525.9	5497.0	5496.0	5455.7	4381.5
35°	3902.8	3935.7	3943.1	3950.6	3968.6	4165.0	4764.7	5856.9	5995.9	5949.2	4708.4
37.5°	4257.3	4305.1	4316.8	4283.9	4309.3	4479.2	5033.2	6145.6	6431.1	6381.2	5024.7
40°	4636.2	4655.3	4687.2	4635.2	4667.0	4839.0	5296.4	6330.3	6755.9	6702.8	5274.2
42.5°	4908.0	4943.0	4990.8	4971.7	4989.7	5146.8	5481.1	6419.4	6987.3	6934.2	5453.5
45°	5203.0	5213.7	5244.4	5240.2	5250.8	5397.3	5613.8	6458.7	7194.2	7146.5	5606.4
47.5°	5459.9	5475.8	5496.0	5472.6	5449.3	5544.8	5722.1	6492.7	7433.1	7375.7	5766.6
50°	5707.2	5721.0	5745.4	5677.5	5590.5	5614.9	5775.1	6539.4	7657.0	7616.7	5893.0
52.5°	5752.8	5767.7	5882.3	5896.1	5784.7	5698.7	5868.5	6642.3	7788.6	7763.2	5938.6
55°	5178.6	5205.2	5433.4	5695.5	5970.4	5942.8	6018.2	6696.4	7840.6	7847.0	6020.3
57.5°	4019.6	4057.8	4391.1	4750.9	5329.3	5808.0	6037.3	6682.6	7822.6	7857.6	6104.2
60°	2636.5	2658.8	3053.7	3457.0	4056.7	4719.0	5403.6	6434.3	7662.3	7712.2	6082.9
62.5°	1592.1	1617.6	1935.0	2240.6	2594.1	3036.7	3665.1	5171.2	6422.6	6534.0	4871.9
65°	1111.3	1145.3	1423.4	1674.9	1797.0	1705.7	1856.4	2888.1	4001.5	4048.2	2977.3
67.5°	805.6	829.0	1057.2	1356.5	1491.3	1204.7	918.1	1279.0	1742.8	1759.8	1228.1
70°	527.5	554.1	761.0	1032.8	1217.4	976.5	686.7	692.0	733.4	741.9	713.3
72.5°	289.8	305.7	470.2	685.7	719.6	583.8	536.0	575.3	603.9	603.9	611.4
75°	149.7	163.5	192.1	226.1	272.8	319.5	386.4	444.7	475.5	477.6	474.5
77.5°	76.4	81.7	103.0	111.4	122.1	142.2	184.7	236.7	264.3	274.9	272.8
80°	36.1	38.2	43.5	50.9	62.6	79.6	99.8	118.9	135.9	138.0	149.7
82.5°	19.1	21.2	23.4	27.6	34.0	42.5	58.4	70.1	80.7	82.8	92.3
85°	7.4	8.5	9.6	10.6	14.9	18.0	24.4	32.9	40.3	40.3	47.8
87.5°	0.0	0.0	0.0	0.0	1.1	2.1	4.2	5.3	7.4	7.4	12.7
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°	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8
2.5°	2335.1	2304.3	2290.5	2268.2	2250.2	2230.0	2214.1	2202.4	2195.0	2190.8	2186.5
5°	2373.3	2326.6	2289.5	2244.9	2214.1	2184.4	2160.0	2143.0	2134.5	2128.1	2123.9
7.5°	2432.8	2370.1	2300.1	2231.1	2177.0	2129.2	2098.4	2080.4	2068.7	2064.4	2061.3
10°	2514.5	2427.4	2311.8	2202.4	2121.8	2069.8	2048.5	2040.0	2041.1	2039.0	2037.9
12.5°	2606.8	2487.9	2308.6	2151.5	2062.3	2031.5	2032.6	2046.4	2062.3	2066.6	2067.6
15°	2706.6	2547.4	2277.8	2085.7	2015.6	2018.8	2046.4	2079.3	2109.0	2120.7	2122.8
17.5°	2814.9	2597.3	2221.5	2013.5	1977.4	2011.4	2062.3	2116.5	2160.0	2179.1	2184.4
20°	2935.9	2639.7	2141.9	1942.4	1941.3	1997.6	2071.9	2143.0	2198.2	2223.7	2227.9
22.5°	3064.3	2666.3	2044.3	1876.6	1904.2	1979.5	2064.4	2138.7	2197.1	2222.6	2227.9
25°	3193.8	2674.8	1937.1	1816.1	1866.0	1950.9	2028.4	2087.8	2143.0	2165.3	2169.5
27.5°	3314.8	2650.3	1835.2	1764.1	1830.9	1908.4	1960.4	1992.3	2030.5	2047.5	2050.6
30°	3437.9	2601.5	1749.2	1722.7	1791.7	1850.0	1873.4	1875.5	1890.4	1890.4	1892.5
32.5°	3562.1	2529.3	1673.8	1682.3	1742.8	1781.0	1784.2	1759.8	1741.8	1712.1	1711.0
35°	3705.4	2456.1	1612.3	1636.7	1685.5	1708.9	1699.3	1652.6	1609.1	1560.3	1558.2
37.5°	3838.1	2380.7	1560.3	1590.0	1620.8	1637.8	1615.5	1559.2	1523.1	1473.2	1465.8
40°	3947.4	2312.8	1510.4	1541.2	1556.0	1570.9	1534.8	1489.2	1494.5	1466.9	1465.8
42.5°	4011.1	2247.0	1463.7	1487.0	1496.6	1507.2	1475.4	1441.4	1470.1	1448.8	1449.9
45°	4057.8	2189.7	1421.2	1429.7	1453.1	1469.0	1439.3	1401.1	1407.4	1325.7	1306.6
47.5°	4110.8	2157.8	1380.9	1372.4	1413.8	1441.4	1395.8	1340.6	1302.4	1221.7	1214.3
50°	4167.1	2146.2	1338.4	1315.1	1365.0	1391.5	1338.4	1269.4	1219.6	1176.0	1171.8
52.5°	4186.2	2145.1	1285.4	1246.1	1296.0	1333.1	1288.6	1218.5	1159.1	1116.6	1114.5
55°	4261.6	2175.9	1217.4	1151.6	1198.3	1274.8	1241.9	1141.0	1093.3	1074.1	1072.0
57.5°	4349.7	2181.2	1110.2	1048.7	1113.4	1203.6	1162.2	1075.2	1023.2	999.8	997.7
60°	4313.6	2050.6	995.6	970.1	1041.2	1136.8	1098.6	1023.2	962.7	940.4	938.3
62.5°	3287.2	1447.8	911.8	902.2	963.8	1040.2	1032.8	954.2	896.9	881.0	878.8
65°	1977.4	1016.8	831.1	830.0	873.5	946.8	956.3	892.6	832.1	809.9	809.9
67.5°	977.6	778.0	739.8	734.5	762.1	814.1	854.4	802.4	751.5	730.3	727.1
70°	691.0	685.7	672.9	658.1	663.4	684.6	701.6	658.1	603.9	582.7	578.5
72.5°	597.6	598.6	590.1	578.5	574.2	559.4	544.5	512.7	479.8	457.5	459.6
75°	463.8	466.0	471.3	467.0	455.3	439.4	423.5	383.2	356.6	335.4	331.2
77.5°	270.7	281.3	298.3	294.0	296.1	273.8	267.5	228.2	203.8	188.9	185.7
80°	152.8	159.2	166.6	171.9	165.6	156.0	142.2	121.0	113.6	103.0	100.8
82.5°	92.3	98.7	101.9	106.1	104.0	91.3	80.7	66.9	60.5	55.2	54.1
85°	46.7	50.9	54.1	56.3	49.9	41.4	37.1	29.7	25.5	22.3	22.3
87.5°	11.7	12.7	14.9	12.7	11.7	5.3	4.2	1.1	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)