

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: P638880

Luminaire Tested: GWS-SA4F-760-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-760-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35002.8 lumens
Efficiency: N/A
Efficacy: 155.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

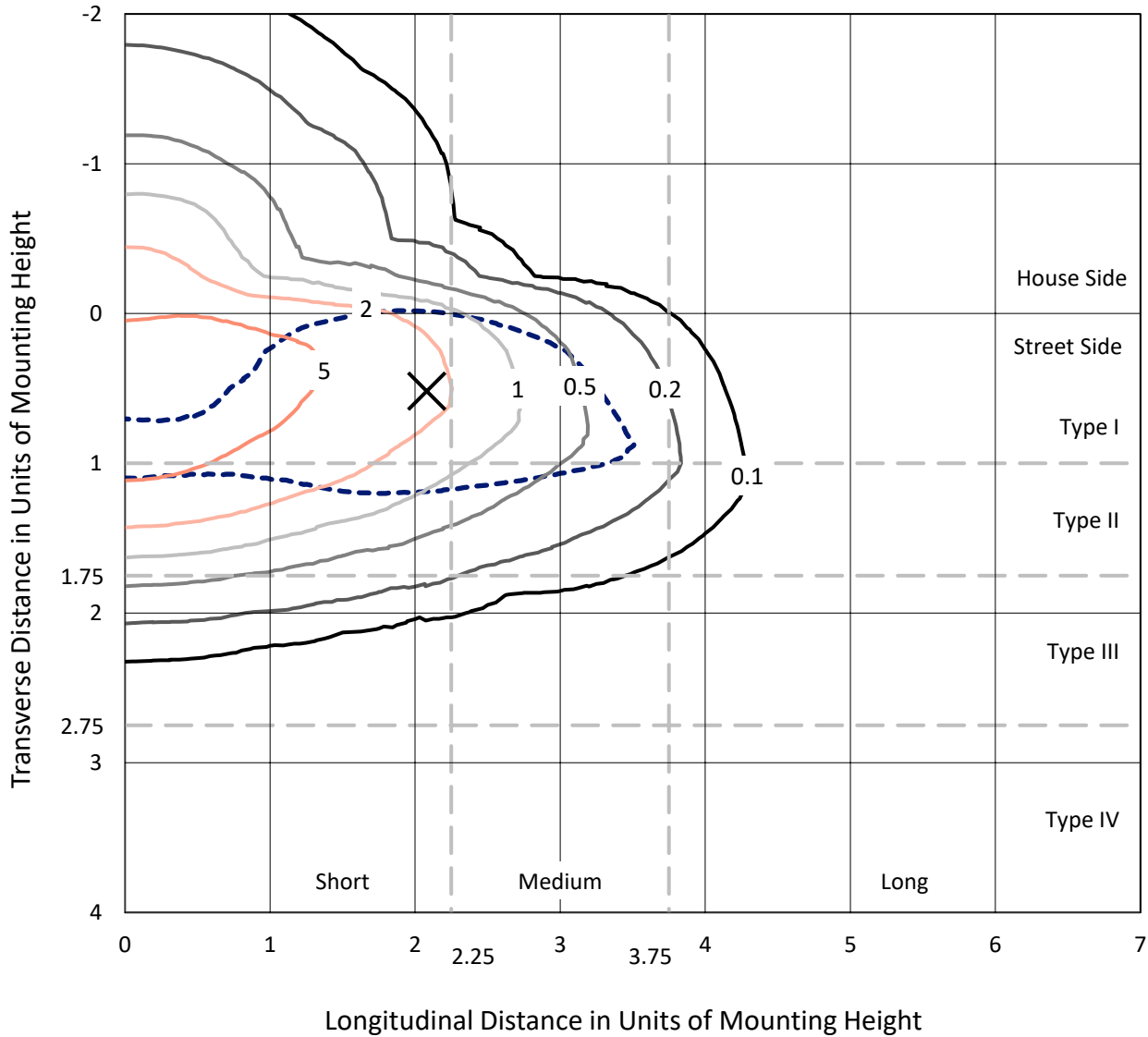
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

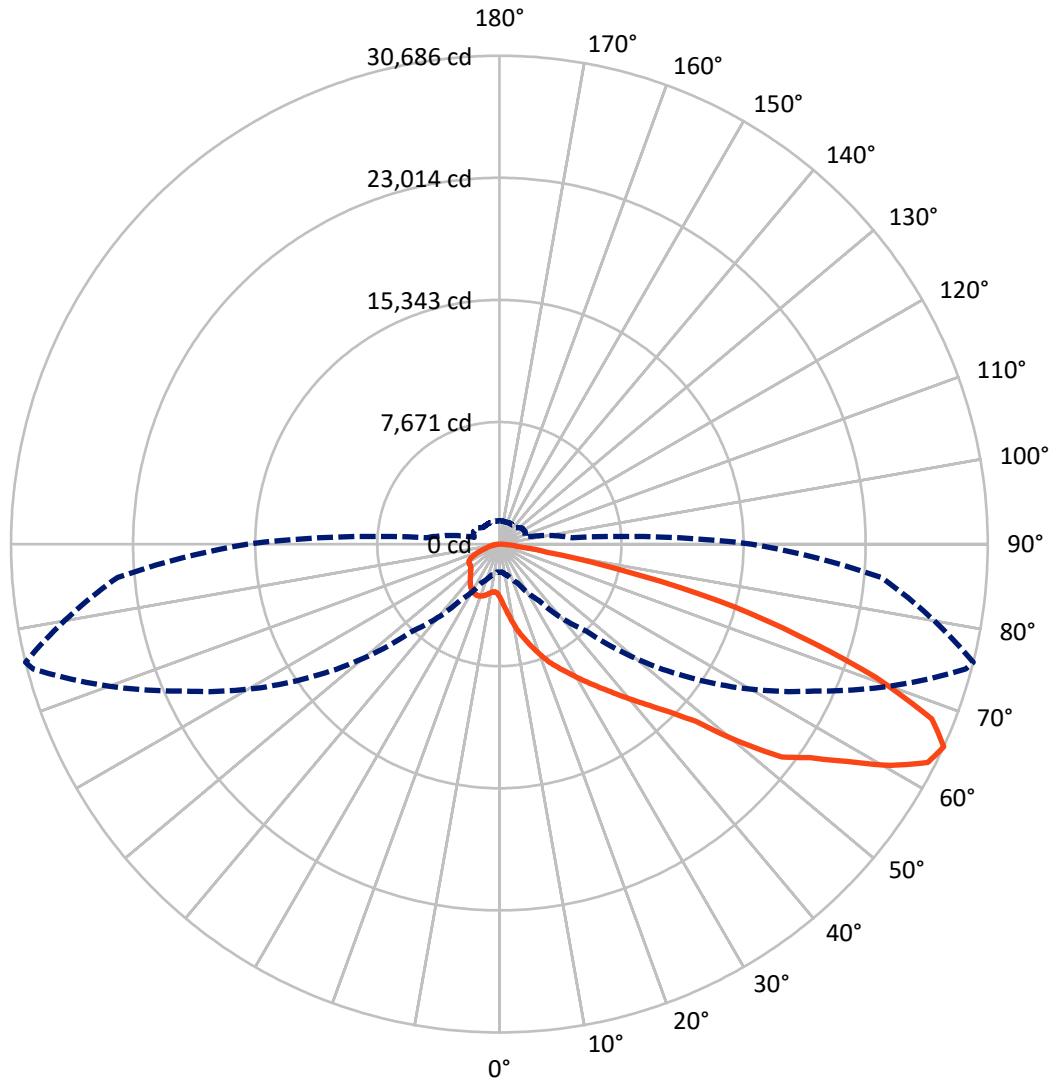
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5850.8	0.0	5850.8
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	29152.0	0.0	29152.0
	% Fixture	83.3	0.0	83.3
Total	Lumens	35002.8	0.0	35002.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.8	1.1
10°-20°	1499.9	4.3
20°-30°	2923.2	8.4
30°-40°	4888.8	14.0
40°-50°	6999.8	20.0
50°-60°	8286.8	23.7
60°-70°	6890.5	19.7
70°-80°	2819.8	8.1
80°-90°	300.2	0.9
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°	35002.8	100.0
0°-180°	35002.8	100.0

Coefficient of Utilization



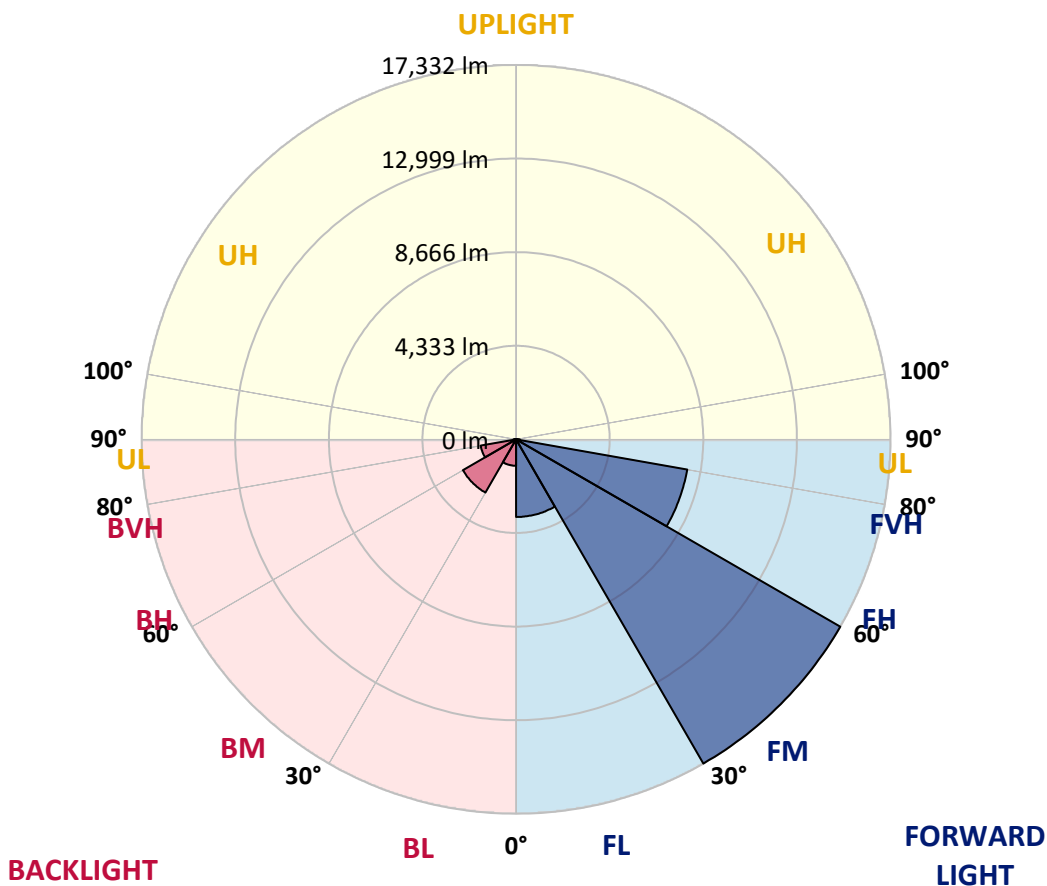
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3592.9	10.3			
FM (30°-60°)	17332.1	49.5			
FH (60°-80°)	8048.0	23.0			G4/12000
FVH (80°-90°)	179.0	0.5			G2/225
BL (0°-30°)	1224.0	3.5	B3/2500		
BM (30°-60°)	2843.3	8.1	B3/5000		
BH (60°-80°)	1662.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	121.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3314.6	3314.6	3314.6	3314.6	3314.6	3314.6	3314.6	3314.6	3314.6	3314.6	3314.6
2.5°	4645.9	4663.1	4606.5	4586.8	4454.0	4274.3	4124.2	3897.8	3688.7	3656.7	3469.7
5°	5900.9	5827.1	5763.1	5721.3	5536.7	5332.5	5015.0	4589.3	4143.9	4089.8	3686.2
7.5°	6646.5	6634.2	6555.4	6530.8	6388.1	6183.9	5856.6	5327.5	4680.4	4591.8	3979.0
10°	7244.5	7237.1	7197.7	7219.9	7089.4	6890.1	6572.7	6026.4	5268.5	5179.9	4306.3
12.5°	7766.1	7778.4	7771.1	7852.3	7785.8	7630.8	7301.1	6700.6	5856.6	5760.6	4705.0
15°	8147.6	8157.4	8194.3	8371.5	8408.4	8376.4	8041.7	7362.6	6437.3	6299.5	5115.9
17.5°	8255.8	8275.5	8364.1	8649.6	8848.9	8981.8	8733.2	8036.8	7008.2	6858.1	5534.2
20°	8401.0	8423.2	8511.7	8809.5	9102.3	9405.0	9360.7	8720.9	7584.0	7461.0	5957.5
22.5°	9072.8	9055.6	9016.2	9158.9	9368.1	9744.6	9855.3	9377.9	8179.5	8061.4	6425.0
25°	10367.2	10335.2	10084.2	9953.8	9884.8	10113.7	10310.6	9975.9	8760.3	8583.1	6860.6
27.5°	11794.4	11777.2	11457.3	11147.2	10724.0	10625.5	10741.2	10497.6	9323.8	9144.2	7239.5
30°	13145.3	13093.7	12759.0	12370.2	11804.2	11381.0	11211.2	11009.4	9941.4	9754.4	7682.5
32.5°	14353.6	14287.1	13893.4	13462.8	12869.7	12370.2	11863.3	11553.2	10640.3	10423.8	8135.3
35°	15345.3	15278.8	14875.3	14417.6	13765.5	13396.3	12702.4	12143.8	11351.5	11132.5	8669.2
37.5°	16113.0	16051.5	15630.7	15180.4	14612.0	14319.1	13716.2	12808.2	12170.9	11942.0	9235.2
40°	16543.6	16499.4	16162.2	15805.4	15328.0	15074.6	14803.9	13647.3	13088.8	12859.9	9902.1
42.5°	16674.1	16644.5	16408.3	16223.8	15901.4	15709.5	15864.5	14634.1	14068.1	13868.8	10652.6
45°	16346.8	16346.8	16277.9	16371.4	16386.2	16383.7	16927.5	15748.8	15271.4	15052.4	11710.7
47.5°	15510.1	15564.3	15665.2	16125.3	16610.1	17016.1	18170.2	17235.1	16819.3	16639.6	13209.3
50°	13979.5	14127.2	14471.7	15369.9	16400.9	17434.4	19346.4	19432.6	19828.8	19511.3	15414.2
52.5°	11737.8	11715.7	12594.1	13873.7	15446.2	17451.7	19993.6	21371.6	22437.2	22218.1	17053.0
55°	9328.7	9291.8	10111.2	11875.6	13982.0	16792.2	20382.4	22260.0	23884.1	23687.2	18527.0
57.5°	7143.6	7096.8	7825.2	9417.3	11915.0	15392.0	20308.6	23318.1	25874.8	25773.9	20530.1
60°	4916.6	4860.0	5541.6	6934.4	9469.0	13251.2	19491.6	23861.9	28205.2	28239.6	22673.4
62.5°	2952.9	2920.9	3415.5	4495.8	6811.4	10598.5	17579.6	23532.2	30060.6	30215.6	24051.4
65°	1781.6	1759.4	2049.8	2682.2	4321.1	7734.2	14631.6	21846.6	30328.8	30685.6	24083.4
67.5°	1296.8	1299.3	1382.9	1633.9	2519.8	4995.3	10979.9	18824.8	28931.1	29300.2	22565.1
70°	1127.0	1131.9	1176.2	1232.8	1523.2	2859.4	7138.6	14860.5	24799.5	25084.9	18925.7
72.5°	1001.5	1001.5	1031.1	1060.6	1191.0	1742.2	3824.0	10386.8	19572.8	19649.1	14444.6
75°	880.9	873.6	888.3	903.1	1033.5	1218.1	1860.3	7237.1	14456.9	14279.8	9336.1
77.5°	701.3	693.9	696.4	711.2	829.3	871.1	942.5	4520.4	8147.6	7689.9	4124.2
80°	499.5	494.6	521.7	558.6	612.7	534.0	590.6	2187.6	3231.0	3007.0	1599.5
82.5°	297.8	307.6	349.4	379.0	423.2	334.7	381.4	730.8	1144.3	1114.7	649.6
85°	41.8	44.3	125.5	145.2	182.1	130.4	201.8	329.7	457.7	489.7	228.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	17.2	59.1	130.4	132.9	56.6
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°	3314.6	3314.6	3314.6	3314.6	3314.6	3314.6	3314.6	3314.6	3314.6	3314.6	3314.6
2.5°	3373.7	3258.0	3093.2	2955.4	2839.7	2746.2	2667.5	2608.4	2591.2	2566.6	2566.6
5°	3496.7	3287.6	2992.3	2783.1	2662.5	2591.2	2542.0	2517.4	2505.0	2490.3	2482.9
7.5°	3666.5	3373.7	2975.1	2763.4	2669.9	2625.6	2593.6	2578.9	2569.0	2554.3	2554.3
10°	3900.3	3501.7	3029.2	2832.3	2758.5	2714.2	2677.3	2652.7	2630.5	2608.4	2603.5
12.5°	4153.8	3669.0	3127.6	2925.8	2847.1	2793.0	2741.3	2704.4	2677.3	2650.2	2642.8
15°	4434.3	3841.2	3233.4	3016.9	2918.5	2844.6	2783.1	2726.5	2689.6	2650.2	2645.3
17.5°	4709.9	4016.0	3322.0	3078.4	2952.9	2861.9	2773.3	2699.4	2652.7	2608.4	2596.1
20°	5039.6	4190.7	3383.5	3095.6	2945.5	2824.9	2719.1	2625.6	2573.9	2522.3	2514.9
22.5°	5342.3	4353.1	3413.1	3071.0	2888.9	2746.2	2623.2	2522.3	2465.7	2414.0	2404.2
25°	5635.1	4495.8	3400.8	3012.0	2802.8	2637.9	2510.0	2409.1	2354.9	2300.8	2286.0
27.5°	5918.1	4591.8	3351.5	2920.9	2694.5	2517.4	2394.3	2303.3	2256.5	2209.8	2190.1
30°	6196.2	4680.4	3275.3	2802.8	2556.7	2391.9	2291.0	2227.0	2180.2	2131.0	2116.2
32.5°	6476.7	4744.3	3159.6	2665.0	2416.5	2281.1	2219.6	2172.8	2123.6	2074.4	2059.7
35°	6759.7	4771.4	3019.3	2507.5	2298.3	2209.8	2187.6	2133.5	2067.0	2008.0	1988.3
37.5°	7096.8	4796.0	2844.6	2352.5	2195.0	2175.3	2170.4	2089.2	2010.4	1929.2	1907.1
40°	7502.8	4828.0	2665.0	2212.2	2111.3	2163.0	2143.3	2032.6	1875.1	1796.4	1771.7
42.5°	7999.9	4887.1	2478.0	2084.3	2049.8	2116.2	2094.1	1894.8	1789.0	1744.7	1732.4
45°	8730.8	5103.6	2291.0	1983.4	2003.1	2049.8	2015.4	1813.6	1771.7	1742.2	1727.4
47.5°	10032.5	5435.8	2128.6	1907.1	1966.1	1990.8	1857.9	1791.4	1759.4	1720.1	1702.8
50°	11385.9	5581.0	1998.1	1860.3	1924.3	1936.6	1771.7	1761.9	1739.8	1697.9	1680.7
52.5°	12301.3	5561.3	1919.4	1843.1	1889.9	1843.1	1732.4	1729.9	1715.1	1665.9	1646.2
55°	13334.8	5595.8	1884.9	1848.0	1875.1	1685.6	1683.2	1690.5	1683.2	1629.0	1619.2
57.5°	14730.1	5701.6	1867.7	1865.3	1865.3	1609.3	1636.4	1646.2	1631.5	1606.9	1599.5
60°	16071.2	5708.9	1835.7	1884.9	1857.9	1562.6	1582.3	1592.1	1574.9	1570.0	1567.5
62.5°	16575.6	5354.6	1764.4	1870.2	1828.3	1510.9	1525.7	1530.6	1513.4	1525.7	1523.2
65°	15825.1	4601.6	1646.2	1798.8	1737.3	1464.1	1454.3	1466.6	1437.1	1469.1	1471.5
67.5°	14050.9	3656.7	1466.6	1663.5	1609.3	1412.5	1392.8	1392.8	1343.6	1392.8	1390.3
70°	11329.3	2583.8	1203.3	1446.9	1469.1	1351.0	1341.1	1284.5	1205.8	1279.6	1272.2
72.5°	8588.0	1855.4	947.4	1144.3	1264.8	1264.8	1267.3	1171.3	1080.3	1114.7	1085.2
75°	5440.7	1306.7	757.9	876.0	991.7	1109.8	1166.4	989.2	908.0	893.3	878.5
77.5°	2450.9	858.8	590.6	671.8	703.8	876.0	1065.5	851.4	740.7	708.7	698.9
80°	1026.1	534.0	420.8	474.9	433.1	735.8	940.0	661.9	543.8	499.5	467.5
82.5°	450.3	317.4	268.2	255.9	270.7	546.3	701.3	440.5	339.6	460.2	465.1
85°	189.5	167.3	137.8	125.5	110.7	209.2	329.7	172.3	211.6	120.6	98.4
87.5°	44.3	49.2	36.9	24.6	14.8	2.5	0.0	0.0	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)