

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: P643005

Luminaire Tested: GWS-SA6E-722-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643005
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-SAGE-722-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33622.2 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

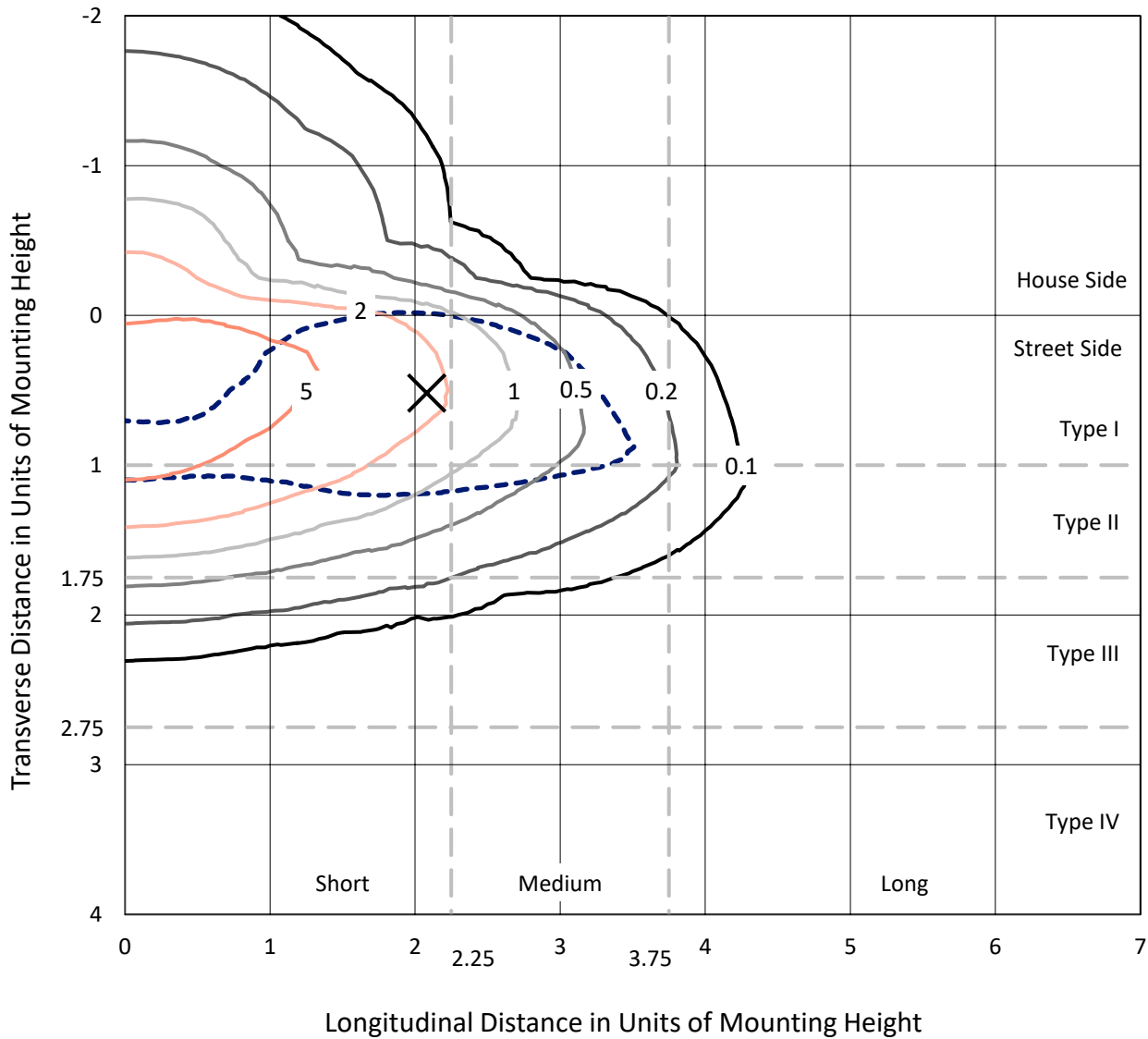
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

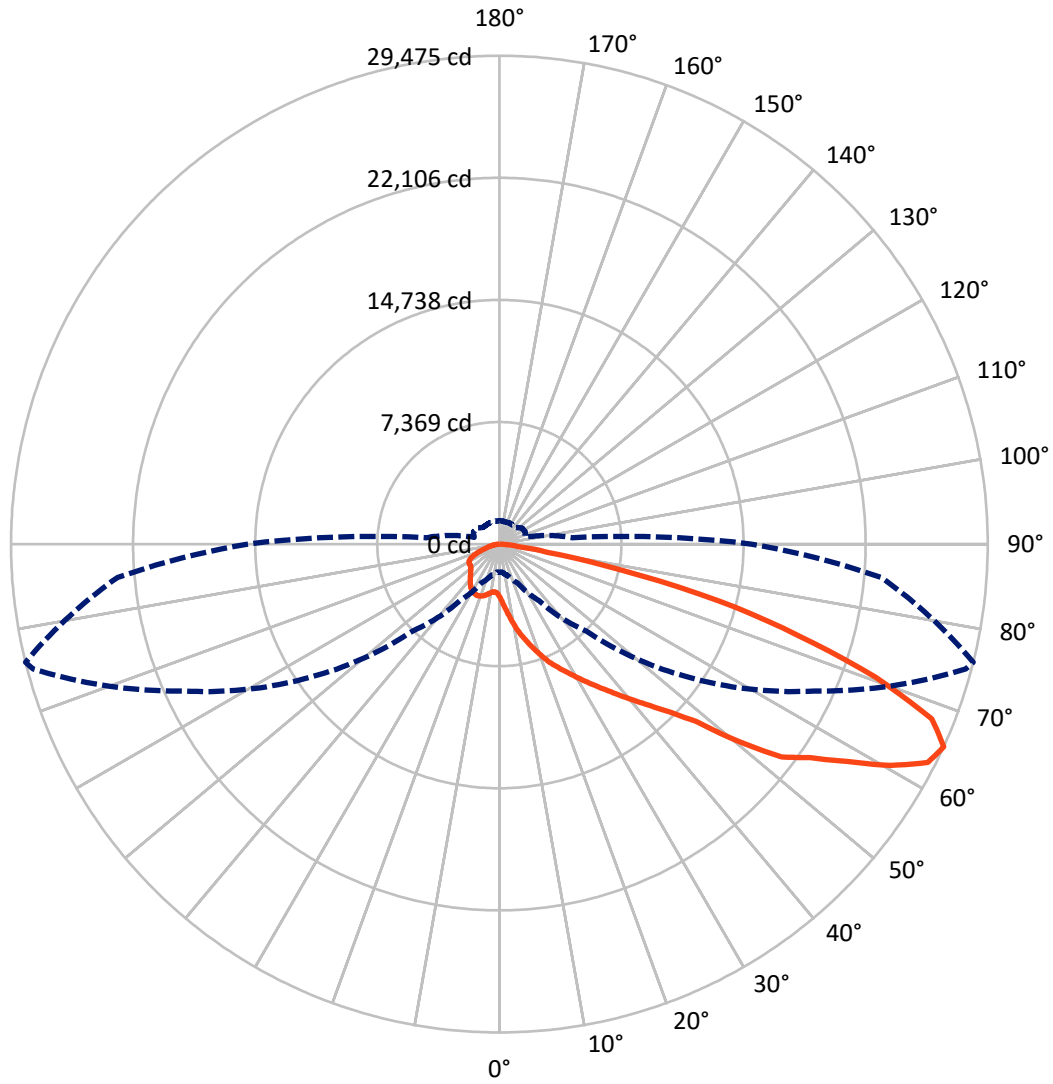
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 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	5620.0	0.0	5620.0
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	28002.2	0.0	28002.2
	% Fixture	83.3	0.0	83.3
Total	Lumens	33622.2	0.0	33622.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.3	1.1
10°-20°	1440.8	4.3
20°-30°	2807.9	8.4
30°-40°	4696.0	14.0
40°-50°	6723.7	20.0
50°-60°	7960.0	23.7
60°-70°	6618.8	19.7
70°-80°	2708.6	8.1
80°-90°	288.4	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°	33622.2	100.0
0°-180°	33622.2	100.0

Coefficient of Utilization



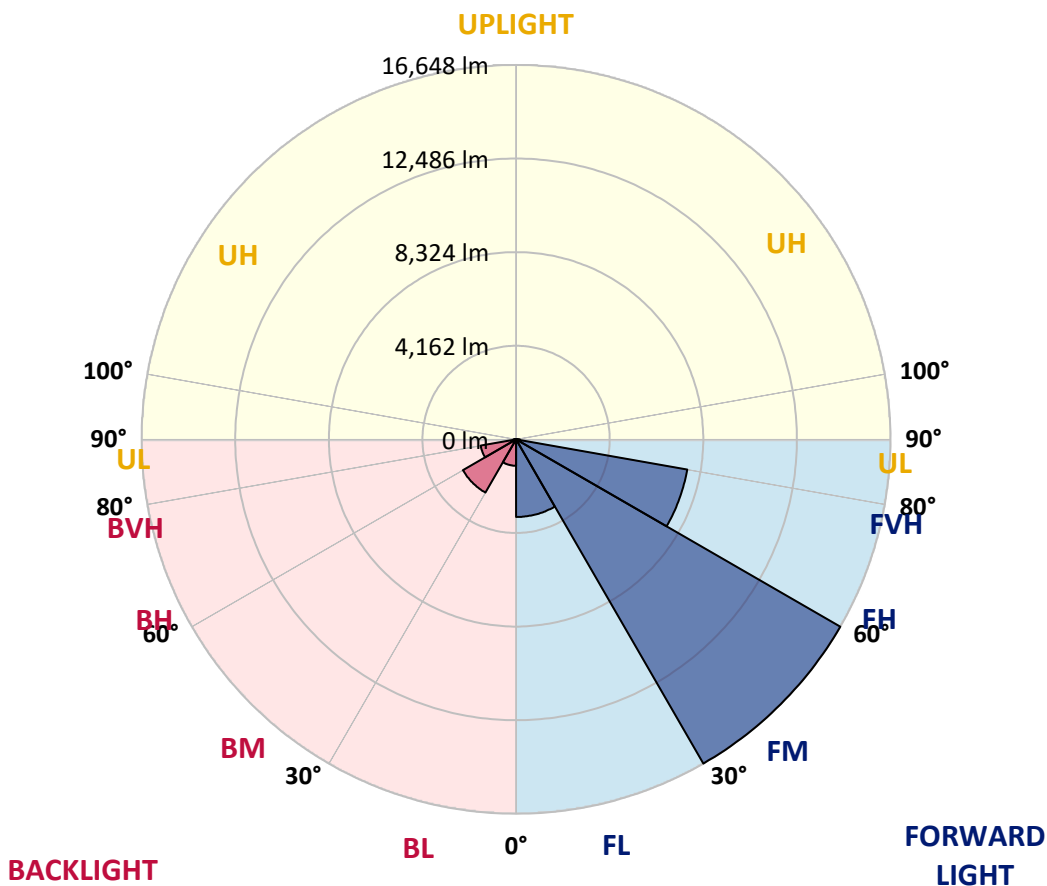
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3451.2	10.3			
FM (30°-60°)	16648.4	49.5			
FH (60°-80°)	7730.6	23.0			G4/12000
FVH (80°-90°)	172.0	0.5			G2/225
BL (0°-30°)	1175.7	3.5	B3/2500		
BM (30°-60°)	2731.2	8.1	B3/5000		
BH (60°-80°)	1596.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	116.4	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°	3183.9	3183.9	3183.9	3183.9	3183.9	3183.9	3183.9	3183.9	3183.9	3183.9	3183.9
2.5°	4462.7	4479.2	4424.8	4405.9	4278.3	4105.7	3961.6	3744.1	3543.2	3512.5	3332.8
5°	5668.1	5597.2	5535.8	5495.6	5318.3	5122.1	4817.2	4408.3	3980.5	3928.5	3540.8
7.5°	6384.3	6372.5	6296.9	6273.2	6136.2	5940.0	5625.6	5117.4	4495.7	4410.7	3822.1
10°	6958.7	6951.6	6913.8	6935.1	6809.8	6618.3	6313.4	5788.7	5060.7	4975.6	4136.5
12.5°	7459.8	7471.6	7464.6	7542.6	7478.7	7329.8	7013.1	6436.3	5625.6	5533.4	4519.4
15°	7826.2	7835.7	7871.1	8041.3	8076.7	8046.0	7724.6	7072.2	6183.4	6051.1	4914.1
17.5°	7930.2	7949.1	8034.2	8308.4	8499.8	8627.5	8388.8	7719.8	6731.8	6587.6	5316.0
20°	8069.7	8090.9	8176.0	8462.0	8743.3	9034.0	8991.5	8376.9	7284.9	7166.7	5722.5
22.5°	8714.9	8698.4	8660.6	8797.7	8998.6	9360.2	9466.6	9008.0	7856.9	7743.5	6171.6
25°	9958.2	9927.5	9686.4	9561.1	9495.0	9714.8	9903.9	9582.4	8414.8	8244.6	6590.0
27.5°	11329.2	11312.6	11005.4	10707.5	10301.0	10206.4	10317.5	10083.5	8956.0	8783.5	6954.0
30°	12626.9	12577.2	12255.8	11882.3	11338.6	10932.1	10769.0	10575.2	9549.3	9369.7	7379.5
32.5°	13787.4	13723.6	13345.4	12931.8	12362.1	11882.3	11395.4	11097.6	10220.6	10012.6	7814.4
35°	14740.0	14676.2	14288.5	13848.9	13222.5	12868.0	12201.4	11664.8	10903.7	10693.4	8327.3
37.5°	15477.5	15418.4	15014.2	14581.6	14035.6	13754.3	13175.2	12303.0	11690.8	11471.0	8870.9
40°	15891.1	15848.6	15524.8	15182.0	14723.5	14480.0	14220.0	13109.1	12572.5	12352.7	9511.5
42.5°	16016.4	15988.0	15761.1	15583.8	15274.2	15089.8	15238.7	14056.9	13513.2	13321.8	10232.4
45°	15702.0	15702.0	15635.8	15725.7	15739.8	15737.5	16259.9	15127.7	14669.1	14458.7	11248.8
47.5°	14898.4	14950.4	15047.3	15489.3	15954.9	16345.0	17453.5	16555.3	16155.9	15983.3	12688.3
50°	13428.2	13570.0	13900.9	14763.6	15754.0	16746.8	18583.4	18666.1	19046.7	18741.7	14806.2
52.5°	11274.8	11253.6	12097.4	13326.5	14836.9	16763.3	19205.0	20528.7	21552.2	21341.8	16380.4
55°	8960.8	8925.3	9712.4	11407.2	13430.5	16129.9	19578.5	21382.0	22942.0	22752.9	17796.3
57.5°	6861.8	6816.9	7516.6	9045.9	11445.0	14784.9	19507.6	22398.4	24854.3	24757.3	19720.3
60°	4722.7	4668.3	5323.0	6660.9	9095.5	12728.5	18722.8	22920.8	27092.7	27125.8	21779.1
62.5°	2836.4	2805.7	3280.8	4318.5	6542.7	10180.4	16886.2	22604.0	28874.9	29023.8	23102.8
65°	1711.3	1690.0	1969.0	2576.4	4150.6	7429.1	14054.5	20984.9	29132.5	29475.3	23133.5
67.5°	1245.7	1248.0	1328.4	1569.5	2420.4	4798.3	10546.8	18082.3	27790.0	28144.5	21675.1
70°	1082.6	1087.3	1129.8	1184.2	1463.1	2746.6	6857.1	14274.4	23821.3	24095.5	18179.2
72.5°	962.0	962.0	990.4	1018.8	1144.0	1673.5	3673.2	9977.2	18800.8	18874.1	13874.9
75°	846.2	839.1	853.3	867.5	992.8	1170.0	1787.0	6951.6	13886.7	13716.5	8967.9
77.5°	673.7	666.6	668.9	683.1	796.6	836.7	905.3	4342.1	7826.2	7386.5	3961.6
80°	479.8	475.1	501.1	536.6	588.6	512.9	567.3	2101.3	3103.5	2888.4	1536.4
82.5°	286.0	295.5	335.6	364.0	406.6	321.5	366.4	702.0	1099.1	1070.8	624.0
85°	40.2	42.5	120.5	139.5	174.9	125.3	193.8	316.7	439.6	470.4	219.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	16.5	56.7	125.3	127.6	54.4
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°	3183.9	3183.9	3183.9	3183.9	3183.9	3183.9	3183.9	3183.9	3183.9	3183.9	3183.9
2.5°	3240.6	3129.5	2971.2	2838.8	2727.7	2637.9	2562.2	2505.5	2489.0	2465.3	2465.3
5°	3358.8	3157.9	2874.3	2673.3	2557.5	2489.0	2441.7	2418.1	2406.2	2392.1	2385.0
7.5°	3521.9	3240.6	2857.7	2654.4	2564.6	2522.1	2491.3	2477.2	2467.7	2453.5	2453.5
10°	3746.5	3363.5	2909.7	2720.6	2649.7	2607.2	2571.7	2548.1	2526.8	2505.5	2500.8
12.5°	3989.9	3524.3	3004.3	2810.4	2734.8	2682.8	2633.2	2597.7	2571.7	2545.7	2538.6
15°	4259.4	3689.7	3105.9	2897.9	2803.3	2732.4	2673.3	2619.0	2583.5	2545.7	2541.0
17.5°	4524.1	3857.6	3191.0	2957.0	2836.4	2749.0	2663.9	2593.0	2548.1	2505.5	2493.7
20°	4840.8	4025.4	3250.1	2973.5	2829.3	2713.5	2611.9	2522.1	2472.4	2422.8	2415.7
22.5°	5131.6	4181.4	3278.4	2949.9	2775.0	2637.9	2519.7	2422.8	2368.4	2318.8	2309.3
25°	5412.9	4318.5	3266.6	2893.2	2692.2	2533.9	2411.0	2314.1	2262.1	2210.1	2195.9
27.5°	5684.7	4410.7	3219.4	2805.7	2588.2	2418.1	2299.9	2212.4	2167.5	2122.6	2103.7
30°	5951.8	4495.7	3146.1	2692.2	2455.9	2297.5	2200.6	2139.1	2094.2	2047.0	2032.8
32.5°	6221.2	4557.2	3035.0	2559.9	2321.1	2191.1	2132.1	2087.1	2039.9	1992.6	1978.4
35°	6493.1	4583.2	2900.3	2408.6	2207.7	2122.6	2101.3	2049.3	1985.5	1928.8	1909.9
37.5°	6816.9	4606.8	2732.4	2259.7	2108.4	2089.5	2084.8	2006.8	1931.1	1853.1	1831.9
40°	7206.9	4637.6	2559.9	2125.0	2028.1	2077.7	2058.8	1952.4	1801.1	1725.5	1701.9
42.5°	7684.4	4694.3	2380.2	2002.1	1969.0	2032.8	2011.5	1820.0	1718.4	1675.9	1664.0
45°	8386.4	4902.3	2200.6	1905.1	1924.0	1969.0	1935.9	1742.0	1701.9	1673.5	1659.3
47.5°	9636.8	5221.4	2044.6	1831.9	1888.6	1912.2	1784.6	1720.8	1690.0	1652.2	1635.7
50°	10936.8	5360.9	1919.3	1787.0	1848.4	1860.2	1701.9	1692.4	1671.1	1631.0	1614.4
52.5°	11816.1	5342.0	1843.7	1770.4	1815.3	1770.4	1664.0	1661.7	1647.5	1600.2	1581.3
55°	12808.9	5375.0	1810.6	1775.1	1801.1	1619.1	1616.8	1623.9	1616.8	1564.8	1555.3
57.5°	14149.1	5476.7	1794.0	1791.7	1791.7	1545.9	1571.9	1581.3	1567.1	1543.5	1536.4
60°	15437.3	5483.8	1763.3	1810.6	1784.6	1500.9	1519.9	1529.3	1512.8	1508.0	1505.7
62.5°	15921.9	5143.4	1694.8	1796.4	1756.2	1451.3	1465.5	1470.2	1453.7	1465.5	1463.1
65°	15200.9	4420.1	1581.3	1727.9	1668.8	1406.4	1396.9	1408.8	1380.4	1411.1	1413.5
67.5°	13496.7	3512.5	1408.8	1597.9	1545.9	1356.8	1337.9	1337.9	1290.6	1337.9	1335.5
70°	10882.5	2481.9	1155.8	1389.9	1411.1	1297.7	1288.2	1233.8	1158.2	1229.1	1222.0
72.5°	8249.3	1782.2	910.0	1099.1	1214.9	1214.9	1217.3	1125.1	1037.7	1070.8	1042.4
75°	5226.1	1255.1	728.0	841.5	952.6	1066.0	1120.4	950.2	872.2	858.0	843.8
77.5°	2354.2	824.9	567.3	645.3	676.0	841.5	1023.5	817.8	711.5	680.7	671.3
80°	985.7	512.9	404.2	456.2	416.0	706.7	902.9	635.8	522.4	479.8	449.1
82.5°	432.6	304.9	257.6	245.8	260.0	524.7	673.7	423.1	326.2	442.0	446.7
85°	182.0	160.7	132.4	120.5	106.4	200.9	316.7	165.5	203.3	115.8	94.5
87.5°	42.5	47.3	35.5	23.6	14.2	2.4	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)