

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: P638723

Luminaire Tested: GWS-SA4F-735-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-735-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34115.2 lumens
Efficiency: N/A
Efficacy: 151.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

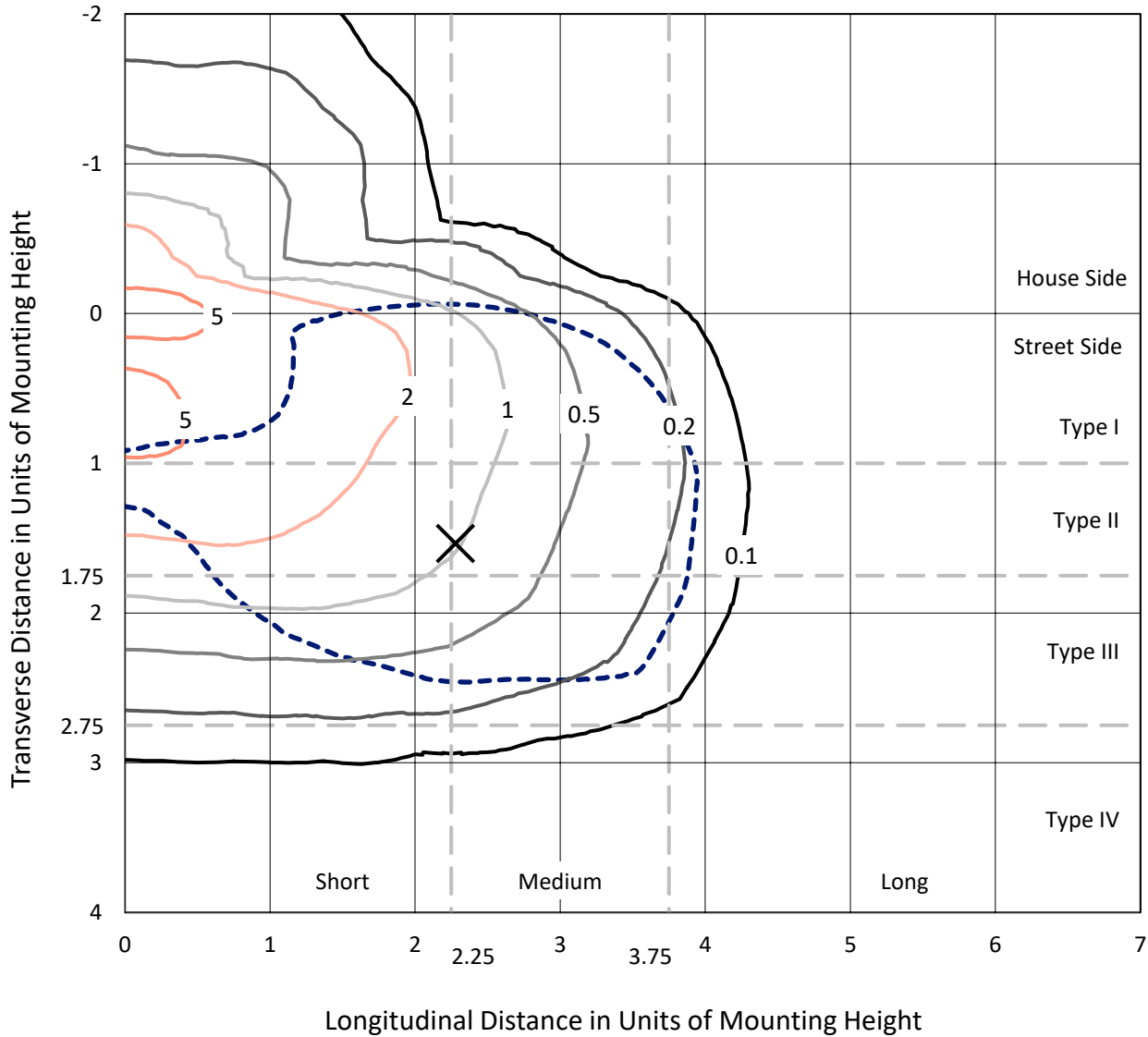
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

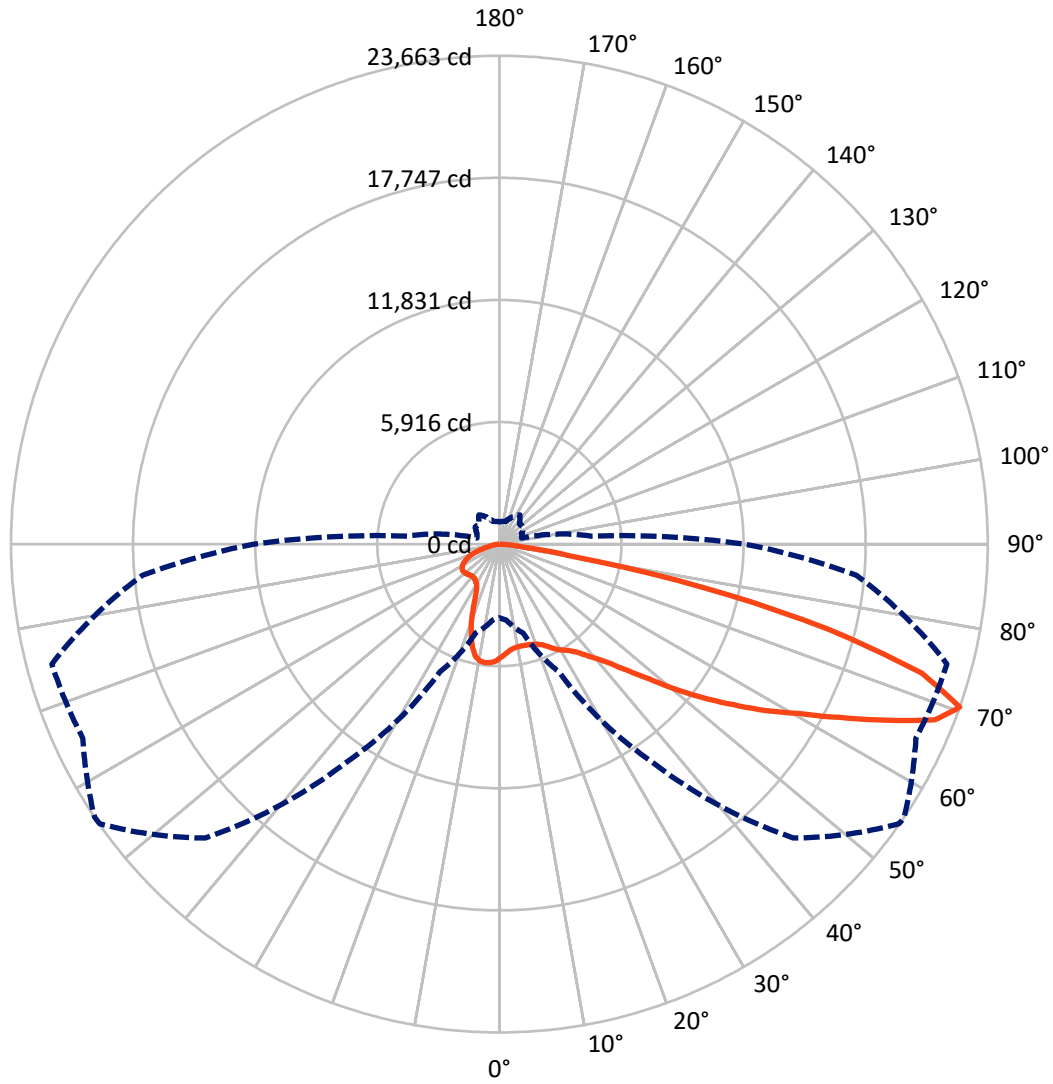
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6558.7	0.0	6558.7
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	27556.5	0.0	27556.5
	% Fixture	80.8	0.0	80.8
Total	Lumens	34115.2	0.0	34115.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.6	1.5
10°-20°	1380.7	4.0
20°-30°	2282.7	6.7
30°-40°	3413.0	10.0
40°-50°	5079.0	14.9
50°-60°	7220.9	21.2
60°-70°	8943.3	26.2
70°-80°	4938.2	14.5
80°-90°	347.8	1.0
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°	34115.2	100.0
0°-180°	34115.2	100.0

Coefficient of Utilization



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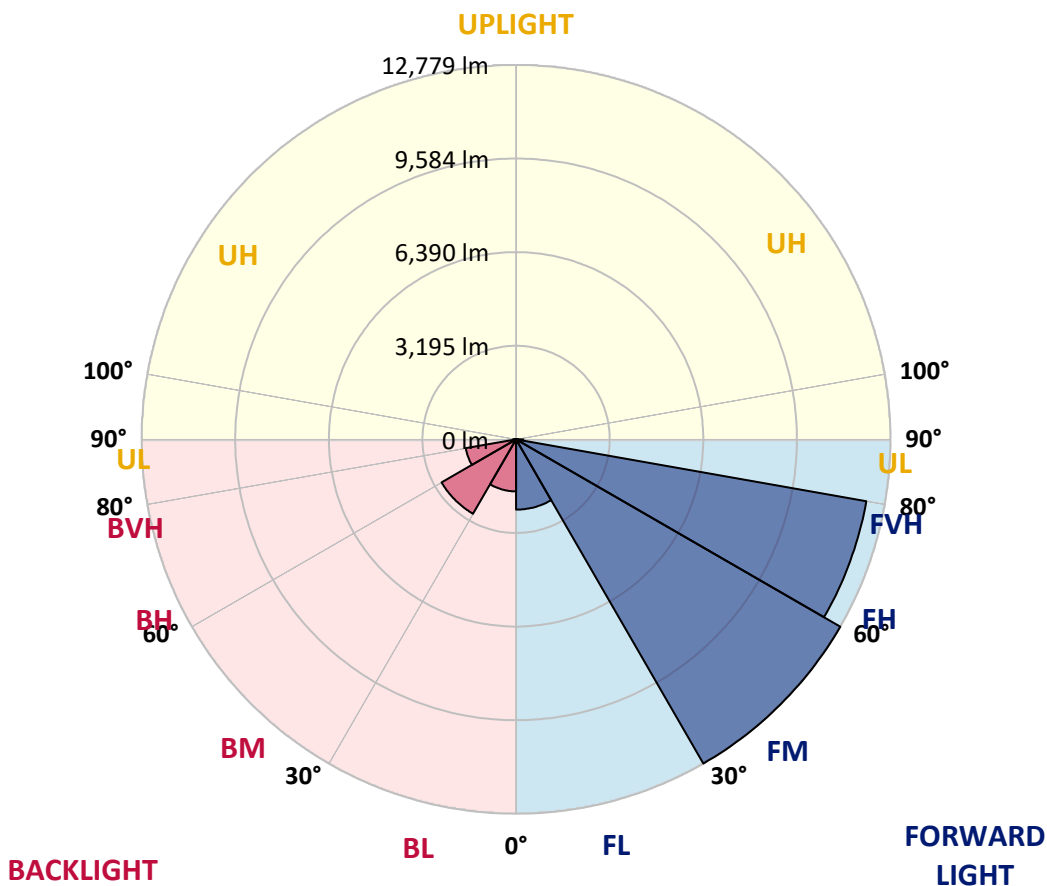
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2397.6	7.0			
FM (30°-60°)	12779.0	37.5			
FH (60°-80°)	12138.2	35.6			G5
FVH (80°-90°)	241.7	0.7			G3/500
BL (0°-30°)	1775.5	5.2	B3/2500		
BM (30°-60°)	2933.8	8.6	B3/5000		
BH (60°-80°)	1743.3	5.1	B3/2500		G3/2500
BVH (80°-90°)	106.1	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-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5506.7	5506.7	5506.7	5506.7	5506.7	5506.7	5506.7	5506.7	5506.7	5506.7	5506.7
2.5°	5153.1	5124.2	5157.9	5174.7	5218.0	5280.6	5335.9	5338.3	5367.2	5437.0	5504.3
5°	4919.7	4905.3	4914.9	4965.4	5011.1	5090.5	5174.7	5181.9	5263.7	5400.9	5535.6
7.5°	4739.3	4720.0	4756.1	4821.1	4878.8	4967.8	5078.5	5088.1	5203.6	5410.5	5617.4
10°	4479.5	4465.0	4532.4	4619.0	4744.1	4890.9	5037.6	5049.6	5201.2	5473.0	5761.7
12.5°	4366.4	4366.4	4395.3	4477.1	4614.2	4809.1	5030.4	5049.6	5239.7	5569.3	5947.0
15°	4542.0	4554.0	4530.0	4525.2	4580.5	4765.8	5040.0	5068.9	5311.9	5667.9	6129.8
17.5°	4895.7	4907.7	4845.1	4746.5	4691.2	4806.7	5076.1	5107.4	5388.8	5776.2	6327.1
20°	5391.2	5405.7	5268.6	5117.0	4926.9	4924.5	5145.9	5174.7	5487.5	5894.0	6536.4
22.5°	5971.0	5980.6	5807.4	5566.9	5275.8	5143.5	5266.1	5295.0	5615.0	6057.6	6762.5
25°	6642.2	6671.1	6461.8	6113.0	5718.4	5444.2	5465.8	5499.5	5843.5	6276.6	7029.5
27.5°	7359.1	7395.2	7154.6	6769.7	6226.0	5776.2	5723.2	5752.1	6086.5	6411.3	7171.5
30°	8092.9	8119.3	7878.8	7438.5	6772.1	6151.5	5939.7	5956.6	6192.4	6476.2	7315.8
32.5°	8908.4	8886.8	8655.8	8148.2	7402.4	6601.3	6141.8	6137.0	6310.2	6606.1	7522.7
35°	9673.4	9704.7	9459.3	8898.8	8095.3	7157.0	6445.0	6425.7	6560.4	6817.8	7813.8
37.5°	10599.7	10590.0	10296.5	9690.3	8790.5	7688.7	6870.8	6837.1	6885.2	7147.4	8220.4
40°	11261.2	11328.6	11138.5	10573.2	9603.7	8343.1	7368.8	7294.2	7306.2	7554.0	8764.1
42.5°	11802.5	11865.1	11884.3	11523.5	10534.7	9151.4	7989.4	7914.9	7922.1	8273.3	9432.9
45°	12218.7	12302.9	12574.8	12468.9	11583.6	10084.8	8829.0	8752.0	8756.9	9146.6	10241.2
47.5°	12389.5	12480.9	13031.8	13284.4	12697.4	11201.1	9873.1	9760.1	9776.9	10207.5	11165.0
50°	12334.2	12456.9	13202.7	13912.3	13630.9	12336.6	11121.7	11042.3	10977.4	11602.8	12168.2
52.5°	11857.8	11992.6	13185.8	14311.7	14393.5	13409.5	12411.2	12365.5	12351.0	13084.8	13289.3
55°	10455.3	10681.4	12606.0	14417.5	14990.1	14420.0	13808.9	13731.9	13806.5	14672.6	14422.4
57.5°	9678.3	9846.7	11470.5	14299.7	15478.5	15382.2	15204.2	15211.4	15295.6	16397.5	15796.0
60°	9235.6	9432.9	10840.2	13977.3	15947.6	16551.4	16664.5	16664.5	16816.1	18257.1	17191.4
62.5°	8648.6	8848.3	10250.8	13356.6	16380.6	17927.5	18500.1	18492.9	18553.0	20251.4	18555.4
65°	7457.8	7643.0	9067.2	12377.5	16592.3	19443.1	20585.8	20564.2	20443.9	22026.9	19457.6
67.5°	5415.3	5590.9	6945.3	10515.4	15829.7	20665.2	22734.2	22743.8	22024.5	23145.5	19505.7
70°	3570.1	3690.4	4465.0	6829.9	12873.1	20138.4	23633.9	23662.8	22267.4	22447.9	17359.8
72.5°	2227.7	2311.9	2788.2	4072.9	7606.9	15940.4	21324.4	21403.8	20032.5	19727.0	14263.6
75°	1479.5	1537.3	1854.8	2374.5	3519.6	8627.0	16209.8	16464.8	16055.8	15464.0	9938.1
77.5°	890.1	938.2	1181.2	1508.4	1558.9	3370.4	9461.7	10120.9	10178.6	8073.6	4161.9
80°	406.6	461.9	652.0	861.3	830.0	1174.0	3336.7	3490.7	4118.6	2564.5	1313.5
82.5°	240.6	264.6	433.0	428.2	353.6	570.2	1200.5	1231.7	1046.5	938.2	560.5
85°	96.2	113.1	182.8	161.2	129.9	185.2	452.3	473.9	454.7	409.0	206.9
87.5°	0.0	0.0	0.0	0.0	2.4	4.8	40.9	43.3	62.5	113.1	62.5
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°	5506.7	5506.7	5506.7	5506.7	5506.7	5506.7	5506.7	5506.7	5506.7	5506.7	5506.7
2.5°	5547.6	5533.2	5605.4	5660.7	5684.7	5708.8	5687.1	5679.9	5679.9	5631.8	5607.8
5°	5607.8	5615.0	5713.6	5759.3	5759.3	5740.1	5682.3	5641.4	5627.0	5564.5	5547.6
7.5°	5720.8	5752.1	5843.5	5841.1	5773.8	5667.9	5523.6	5412.9	5311.9	5268.6	5242.1
10°	5906.1	5947.0	6009.5	5908.5	5720.8	5441.8	5136.2	4895.7	4751.3	4635.8	4635.8
12.5°	6117.8	6156.3	6144.2	5910.9	5523.6	5001.5	4561.3	4284.6	4082.5	3976.7	3976.7
15°	6329.5	6360.8	6230.8	5800.2	5112.2	4416.9	3935.8	3603.8	3428.2	3329.5	3329.5
17.5°	6543.6	6541.2	6266.9	5545.2	4575.7	3769.8	3298.3	3040.8	2980.7	2963.9	2961.5
20°	6750.5	6695.1	6221.2	5119.4	3952.6	3117.8	2819.5	2836.4	2925.4	2963.9	2968.7
22.5°	6983.8	6846.7	6086.5	4575.7	3245.3	2665.5	2684.8	2824.3	2954.2	3012.0	3019.2
25°	7222.0	6976.6	5860.4	3938.2	2653.5	2499.6	2648.7	2805.1	2951.8	3026.4	3033.6
27.5°	7318.2	6976.6	5475.4	3199.6	2338.4	2429.8	2593.4	2744.9	2898.9	2985.5	3002.4
30°	7397.6	6916.5	4936.6	2533.2	2208.5	2362.4	2504.4	2643.9	2795.5	2901.3	2920.6
32.5°	7508.3	6863.6	4284.6	2129.1	2148.3	2297.5	2396.1	2514.0	2651.1	2720.9	2713.7
35°	7638.2	6781.8	3497.9	1936.6	2097.8	2242.1	2311.9	2381.7	2319.1	2316.7	2323.9
37.5°	7823.4	6709.6	2812.3	1850.0	2064.1	2203.6	2261.4	2112.2	2025.6	1989.5	1975.1
40°	8090.5	6680.7	2218.1	1799.5	2059.3	2201.2	2160.3	1929.4	1811.5	1686.4	1684.0
42.5°	8427.3	6659.1	1833.2	1775.4	2076.1	2256.6	2020.8	1809.1	1566.1	1510.8	1506.0
45°	8860.3	6625.4	1640.7	1770.6	2117.0	2299.9	2006.4	1643.1	1477.1	1453.1	1453.1
47.5°	9382.4	6572.5	1554.1	1770.6	2162.8	2280.6	1963.1	1607.0	1436.2	1462.7	1479.5
50°	9981.4	6505.1	1508.4	1765.8	2208.5	2280.6	1871.7	1599.8	1426.6	1563.7	1619.1
52.5°	10621.3	6428.1	1477.1	1746.6	2239.7	2283.0	1876.5	1623.9	1436.2	1587.8	1633.5
55°	11328.6	6416.1	1433.8	1705.7	2249.4	2220.5	1888.5	1676.8	1450.7	1438.6	1441.0
57.5°	12221.1	6560.4	1402.5	1645.5	2210.9	2093.0	1912.6	1715.3	1433.8	1436.2	1453.1
60°	13154.5	6832.3	1429.0	1587.8	2131.5	1972.7	1929.4	1696.0	1352.0	1313.5	1318.3
62.5°	13948.4	7039.2	1450.7	1561.3	2016.0	1866.8	1912.6	1652.7	1306.3	1296.7	1318.3
65°	14280.4	6868.4	1397.7	1506.0	1847.6	1736.9	1876.5	1597.4	1267.8	1231.7	1234.1
67.5°	13912.3	6067.3	1294.3	1383.3	1657.5	1570.9	1818.7	1525.2	1214.9	1171.6	1162.0
70°	11884.3	4457.8	1116.3	1188.4	1426.6	1376.1	1729.7	1431.4	1130.7	1099.4	1077.8
72.5°	9577.2	3156.3	926.2	945.5	1118.7	1159.6	1575.8	1313.5	1034.5	945.5	914.2
75°	6666.3	1982.3	772.2	753.0	808.3	885.3	1229.3	1089.8	892.5	798.7	769.8
77.5°	2867.6	1017.6	603.8	594.2	538.9	613.5	943.0	909.4	748.2	639.9	623.1
80°	959.9	589.4	435.4	418.6	358.5	430.6	664.0	726.5	587.0	473.9	445.1
82.5°	481.1	341.6	276.7	250.2	240.6	271.8	392.1	452.3	406.6	327.2	276.7
85°	235.8	194.9	151.6	149.2	125.1	117.9	163.6	192.5	182.8	134.7	127.5
87.5°	86.6	77.0	48.1	38.5	24.1	16.8	9.6	9.6	7.2	7.2	7.2
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)