

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: P638778

Luminaire Tested: GWS-SA4F-740-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638778
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-740-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34589.2 lumens
Efficiency: N/A
Efficacy: 153.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

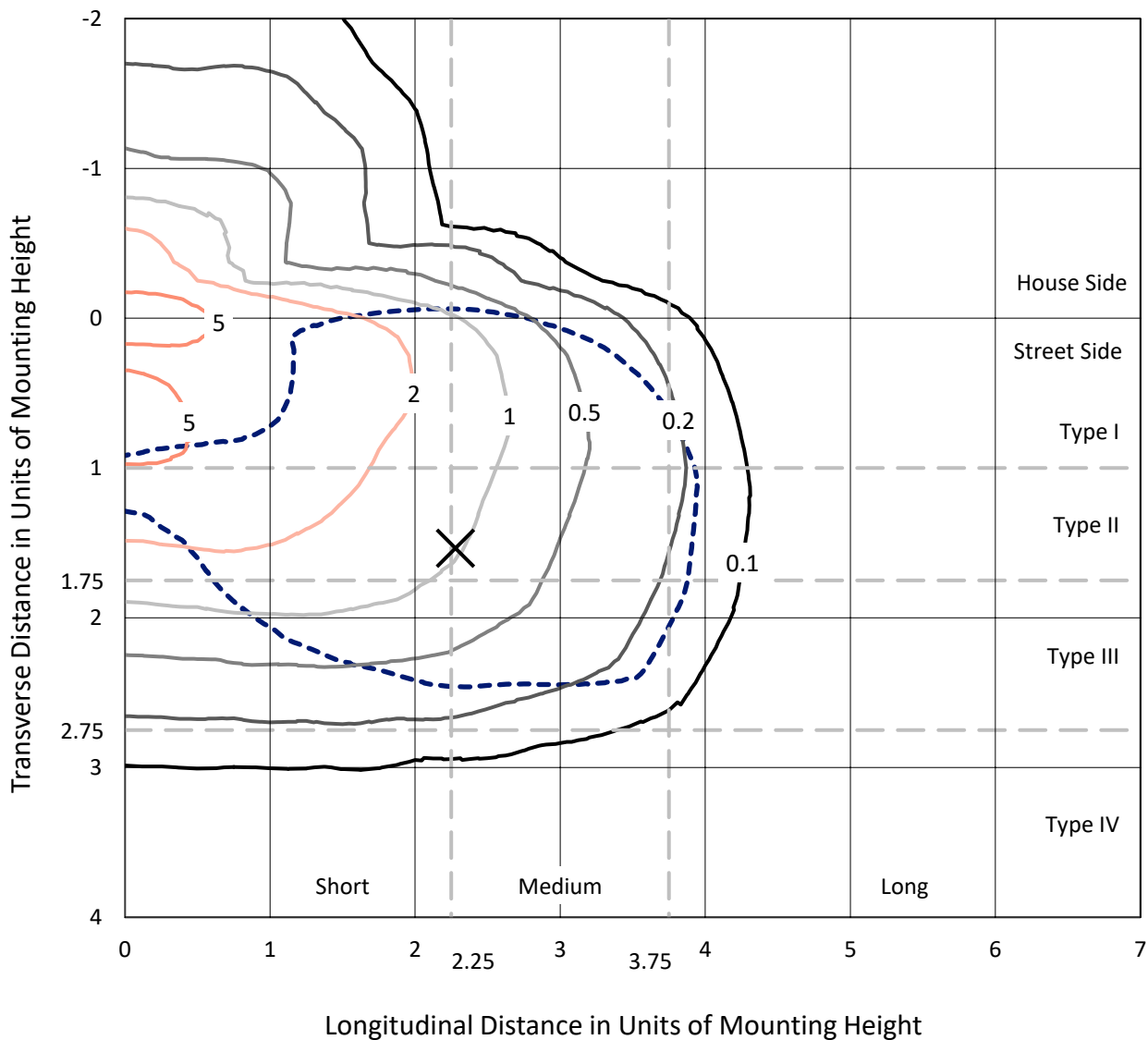
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

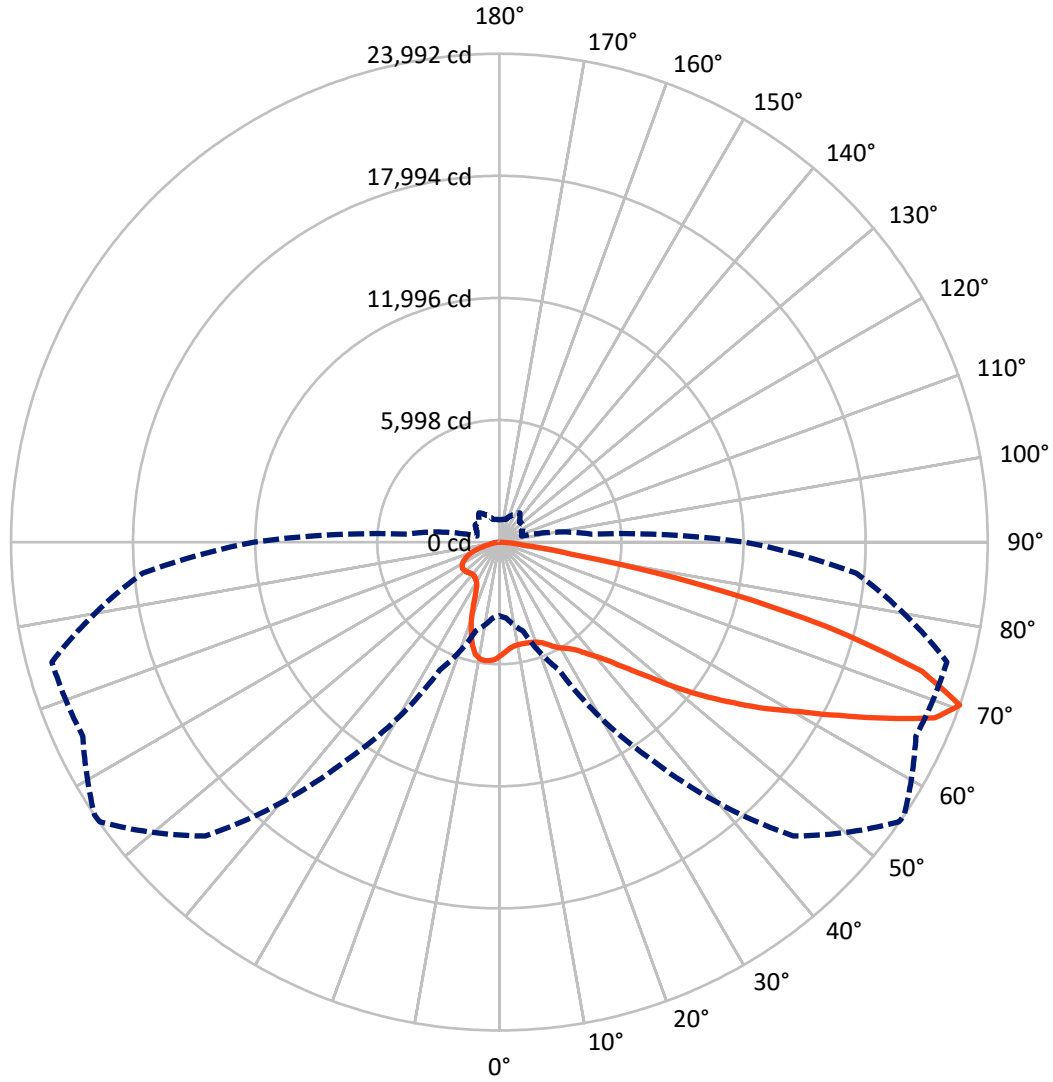
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 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	6649.8	0.0	6649.8
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	27939.4	0.0	27939.4
	% Fixture	80.8	0.0	80.8
Total	Lumens	34589.2	0.0	34589.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.7	1.5
10°-20°	1399.9	4.0
20°-30°	2314.5	6.7
30°-40°	3460.4	10.0
40°-50°	5149.6	14.9
50°-60°	7321.2	21.2
60°-70°	9067.5	26.2
70°-80°	5006.8	14.5
80°-90°	352.6	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°	34589.2	100.0
0°-180°	34589.2	100.0

Coefficient of Utilization



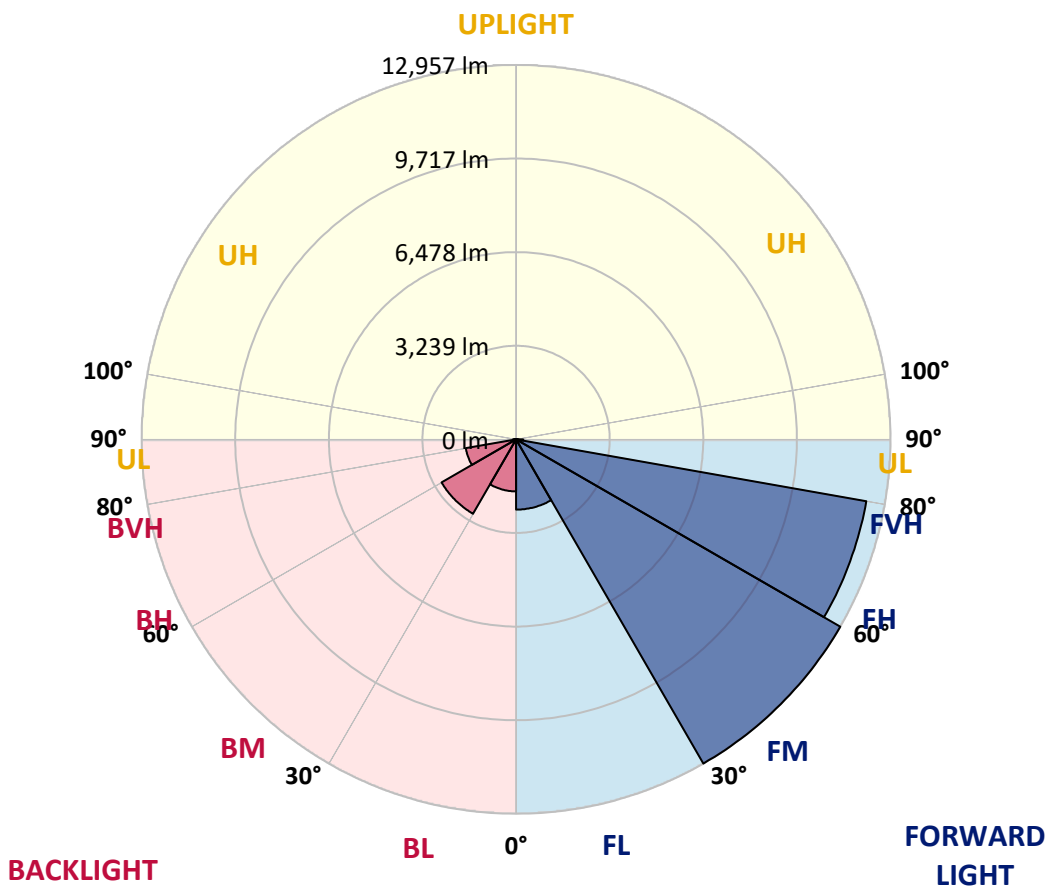
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2430.9	7.0			
FM (30°-60°)	12956.6	37.5			
FH (60°-80°)	12306.9	35.6			G5
FVH (80°-90°)	245.0	0.7			G3/500
BL (0°-30°)	1800.2	5.2	B3/2500		
BM (30°-60°)	2974.6	8.6	B3/5000		
BH (60°-80°)	1767.5	5.1	B3/2500		G3/2500
BVH (80°-90°)	107.6	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°	5583.2	5583.2	5583.2	5583.2	5583.2	5583.2	5583.2	5583.2	5583.2	5583.2	5583.2
2.5°	5224.7	5195.4	5229.6	5246.6	5290.5	5353.9	5410.0	5412.5	5441.8	5512.5	5580.8
5°	4988.1	4973.4	4983.2	5034.4	5080.8	5161.3	5246.6	5253.9	5336.9	5475.9	5612.5
7.5°	4805.1	4785.6	4822.2	4888.1	4946.6	5036.9	5149.1	5158.8	5275.9	5485.7	5695.4
10°	4541.7	4527.1	4595.4	4683.2	4810.0	4958.8	5107.6	5119.8	5273.5	5549.1	5841.8
12.5°	4427.1	4427.1	4456.3	4539.3	4678.3	4875.9	5100.3	5119.8	5312.5	5646.6	6029.6
15°	4605.1	4617.3	4592.9	4588.1	4644.2	4832.0	5110.0	5139.3	5385.7	5746.7	6215.0
17.5°	4963.7	4975.9	4912.5	4812.5	4756.4	4873.4	5146.6	5178.3	5463.7	5856.4	6415.0
20°	5466.1	5480.8	5341.8	5188.1	4995.4	4993.0	5217.4	5246.6	5563.7	5975.9	6627.2
22.5°	6054.0	6063.7	5888.1	5644.2	5349.1	5214.9	5339.3	5368.6	5693.0	6141.8	6856.5
25°	6734.5	6763.8	6551.6	6197.9	5797.9	5519.8	5541.8	5575.9	5924.7	6363.8	7127.2
27.5°	7461.4	7498.0	7254.1	6863.8	6312.5	5856.4	5802.8	5832.0	6171.1	6500.4	7271.1
30°	8205.3	8232.2	7988.2	7541.9	6866.2	6236.9	6022.3	6039.4	6278.4	6566.2	7417.5
32.5°	9032.2	9010.2	8776.1	8261.4	7505.3	6693.0	6227.2	6222.3	6397.9	6697.9	7627.2
35°	9807.8	9839.6	9590.8	9022.4	8207.8	7256.5	6534.5	6515.0	6651.6	6912.6	7922.4
37.5°	10746.9	10737.2	10439.6	9824.9	8912.7	7795.5	6966.2	6932.1	6980.9	7246.7	8334.6
40°	11417.7	11486.0	11293.3	10720.1	9737.1	8459.0	7471.1	7395.5	7407.7	7659.0	8885.8
42.5°	11966.5	12029.9	12049.4	11683.6	10681.1	9278.6	8100.4	8024.8	8032.1	8388.3	9563.9
45°	12388.5	12473.8	12749.5	12642.1	11744.5	10224.9	8951.7	8873.7	8878.5	9273.7	10383.5
47.5°	12561.7	12654.3	13212.9	13469.0	12873.9	11356.7	10010.3	9895.7	9912.7	10349.3	11320.1
50°	12505.6	12630.0	13386.1	14105.6	13820.3	12508.0	11276.2	11195.7	11129.9	11764.1	12337.3
52.5°	12022.6	12159.2	13369.0	14510.5	14593.5	13595.9	12583.6	12537.3	12522.6	13266.6	13473.9
55°	10600.6	10829.9	12781.2	14617.9	15198.4	14620.3	14000.8	13922.7	13998.3	14876.4	14622.7
57.5°	9812.7	9983.5	11629.9	14498.3	15693.5	15596.0	15415.5	15422.8	15508.2	16625.3	16015.5
60°	9363.9	9563.9	10990.8	14171.5	16169.2	16781.4	16896.0	16896.0	17049.7	18510.8	17430.2
62.5°	8768.8	8971.2	10393.2	13542.2	16608.2	18176.6	18757.1	18749.8	18810.8	20532.8	18813.2
65°	7561.4	7749.2	9193.2	12549.5	16822.9	19713.3	20871.9	20849.9	20728.0	22332.9	19727.9
67.5°	5490.5	5668.6	7041.8	10661.6	16049.6	20952.4	23050.0	23059.8	22330.5	23467.1	19776.7
70°	3619.7	3741.7	4527.1	6924.8	13051.9	20418.2	23962.3	23991.5	22576.8	22759.8	17601.0
72.5°	2258.7	2344.0	2827.0	4129.5	7712.6	16161.9	21620.7	21701.2	20310.9	20001.1	14461.8
75°	1500.1	1558.6	1880.6	2407.4	3568.5	8746.8	16435.0	16693.6	16278.9	15678.9	10076.2
77.5°	902.5	951.3	1197.6	1529.4	1580.6	3417.3	9593.2	10261.5	10320.1	8185.8	4219.7
80°	412.2	468.3	661.0	873.2	841.5	1190.3	3383.1	3539.2	4175.8	2600.1	1331.8
82.5°	243.9	268.3	439.0	434.2	358.6	578.1	1217.1	1248.8	1061.0	951.3	568.3
85°	97.6	114.6	185.4	163.4	131.7	187.8	458.6	480.5	461.0	414.7	209.8
87.5°	0.0	0.0	0.0	0.0	2.4	4.9	41.5	43.9	63.4	114.6	63.4
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°	5583.2	5583.2	5583.2	5583.2	5583.2	5583.2	5583.2	5583.2	5583.2	5583.2	5583.2
2.5°	5624.7	5610.1	5683.2	5739.3	5763.7	5788.1	5766.2	5758.8	5758.8	5710.1	5685.7
5°	5685.7	5693.0	5793.0	5839.3	5839.3	5819.8	5761.3	5719.8	5705.2	5641.8	5624.7
7.5°	5800.3	5832.0	5924.7	5922.3	5854.0	5746.7	5600.3	5488.1	5385.7	5341.8	5314.9
10°	5988.1	6029.6	6093.0	5990.6	5800.3	5517.4	5207.6	4963.7	4817.3	4700.3	4700.3
12.5°	6202.8	6241.8	6229.6	5993.0	5600.3	5071.0	4624.6	4344.1	4139.2	4031.9	4031.9
15°	6417.4	6449.1	6317.4	5880.8	5183.2	4478.3	3990.5	3653.9	3475.8	3375.8	3375.8
17.5°	6634.5	6632.1	6354.0	5622.3	4639.3	3822.2	3344.1	3083.1	3022.1	3005.0	3002.6
20°	6844.3	6788.2	6307.7	5190.5	4007.5	3161.1	2858.7	2875.8	2966.0	3005.0	3009.9
22.5°	7080.9	6941.8	6171.1	4639.3	3290.4	2702.6	2722.1	2863.6	2995.3	3053.8	3061.1
25°	7322.3	7073.6	5941.8	3992.9	2690.4	2534.3	2685.5	2844.1	2992.8	3068.5	3075.8
27.5°	7419.9	7073.6	5551.5	3244.1	2370.9	2463.5	2629.4	2783.1	2939.2	3027.0	3044.1
30°	7500.4	7012.6	5005.1	2568.4	2239.1	2395.3	2539.2	2680.6	2834.3	2941.6	2961.1
32.5°	7612.6	6958.9	4344.1	2158.7	2178.2	2329.4	2429.4	2548.9	2688.0	2758.7	2751.4
35°	7744.3	6876.0	3546.5	1963.5	2126.9	2273.3	2344.0	2414.8	2351.3	2348.9	2356.2
37.5°	7932.1	6802.8	2851.4	1875.7	2092.8	2234.3	2292.8	2141.6	2053.8	2017.2	2002.5
40°	8202.9	6773.5	2248.9	1824.5	2087.9	2231.8	2190.4	1956.2	1836.7	1709.8	1707.4
42.5°	8544.4	6751.6	1858.6	1800.1	2105.0	2287.9	2048.9	1834.2	1587.9	1531.8	1526.9
45°	8983.4	6717.4	1663.5	1795.2	2146.5	2331.8	2034.3	1665.9	1497.6	1473.3	1473.3
47.5°	9512.7	6663.8	1575.7	1795.2	2192.8	2312.3	1990.4	1629.4	1456.2	1483.0	1500.1
50°	10120.1	6595.5	1529.4	1790.3	2239.1	2312.3	1897.7	1622.0	1446.4	1585.5	1641.6
52.5°	10768.9	6517.4	1497.6	1770.8	2270.9	2314.8	1902.5	1646.4	1456.2	1609.8	1656.2
55°	11486.0	6505.2	1453.7	1729.4	2280.6	2251.3	1914.7	1700.1	1470.8	1458.6	1461.1
57.5°	12390.9	6651.6	1422.0	1668.4	2241.6	2122.1	1939.1	1739.1	1453.7	1456.2	1473.3
60°	13337.3	6927.2	1448.9	1609.8	2161.1	2000.1	1956.2	1719.6	1370.8	1331.8	1336.7
62.5°	14142.2	7137.0	1470.8	1583.0	2044.0	1892.8	1939.1	1675.7	1324.5	1314.7	1336.7
65°	14478.8	6963.8	1417.1	1526.9	1873.3	1761.1	1902.5	1619.6	1285.4	1248.8	1251.3
67.5°	14105.6	6151.6	1312.3	1402.5	1680.6	1592.8	1844.0	1546.4	1231.8	1187.9	1178.1
70°	12049.4	4519.8	1131.8	1204.9	1446.4	1395.2	1753.8	1451.3	1146.4	1114.7	1092.7
72.5°	9710.3	3200.2	939.1	958.6	1134.2	1175.7	1597.6	1331.8	1048.8	958.6	926.9
75°	6758.9	2009.9	783.0	763.5	819.6	897.6	1246.4	1104.9	904.9	809.8	780.5
77.5°	2907.5	1031.8	612.2	602.5	546.4	622.0	956.1	922.0	758.6	648.8	631.7
80°	973.2	597.6	441.5	424.4	363.4	436.6	673.2	736.6	595.2	480.5	451.2
82.5°	487.8	346.4	280.5	253.7	243.9	275.6	397.6	458.6	412.2	331.7	280.5
85°	239.0	197.6	153.7	151.2	126.8	119.5	165.9	195.1	185.4	136.6	129.3
87.5°	87.8	78.1	48.8	39.0	24.4	17.1	9.8	9.8	7.3	7.3	7.3
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)