

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: P643703

Luminaire Tested: GWS-SA6F-740-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643703  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGF-740-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

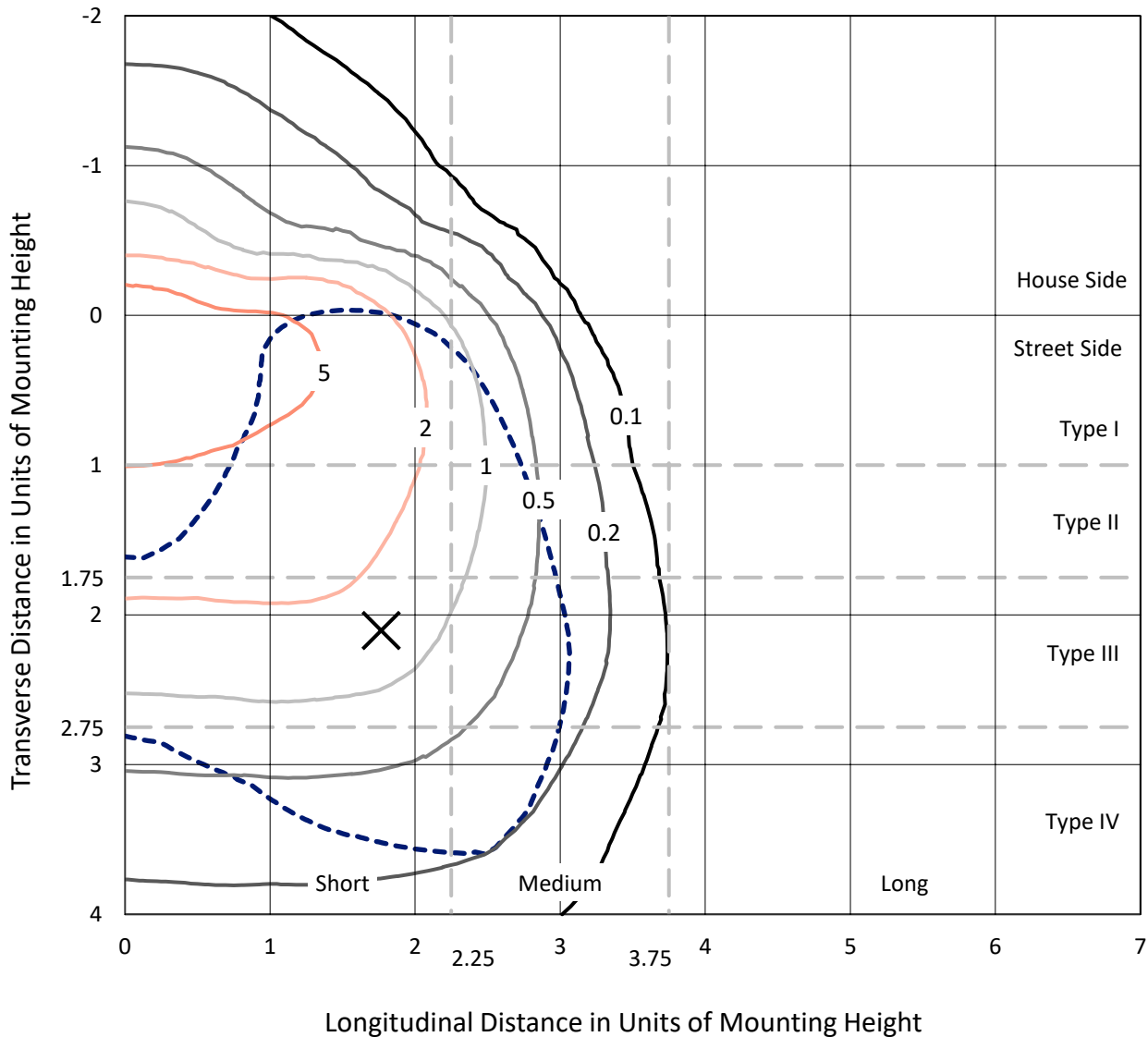
Lumens per Lamp: N/A  
Luminaire Lumens: 47798.8 lumens  
Efficiency: N/A  
Efficacy: 128.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

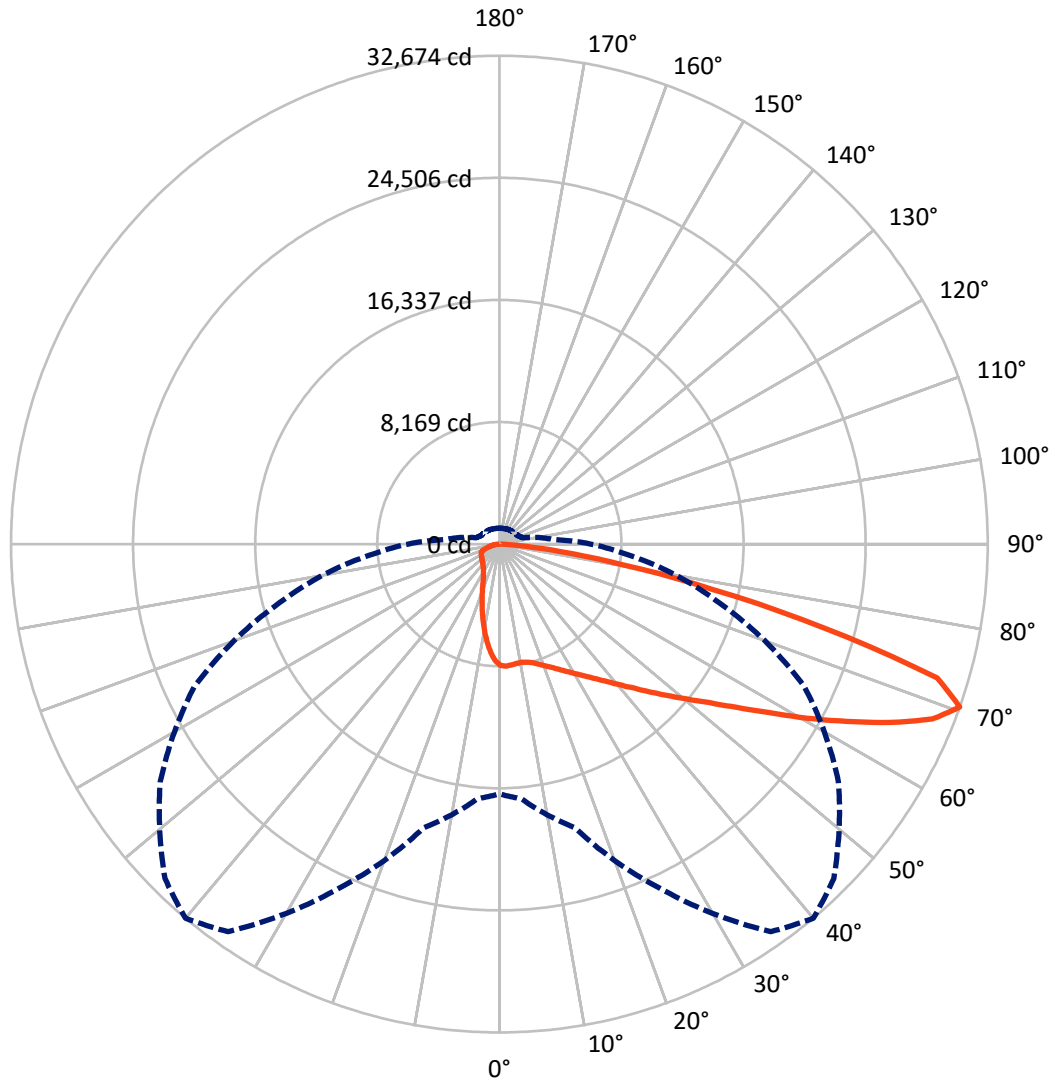
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7362.2	0.0	7362.2
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	40436.6	0.0	40436.6
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	47798.8	0.0	47798.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	717.0	1.5
10°-20°	1869.1	3.9
20°-30°	2934.7	6.1
30°-40°	4412.5	9.2
40°-50°	6810.8	14.2
50°-60°	10114.5	21.2
60°-70°	12749.2	26.7
70°-80°	7372.8	15.4
80°-90°	818.2	1.7
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°	47798.8	100.0
0°-180°	47798.8	100.0

**Coefficient of Utilization**



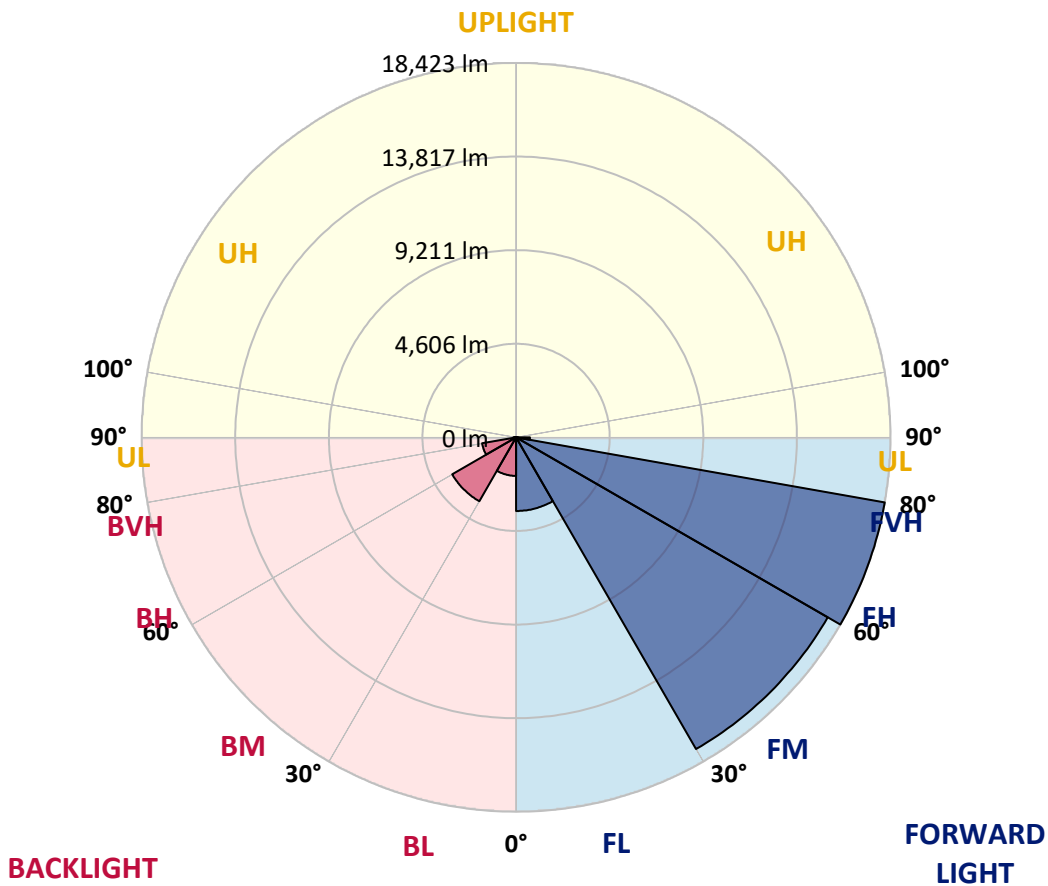
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3623.5	7.6			
FM (30°-60°)	17708.8	37.0			
FH (60°-80°)	18422.8	38.5			G5
FVH (80°-90°)	681.5	1.4			G4/750
BL (0°-30°)	1897.3	4.0	B3/2500		
BM (30°-60°)	3628.9	7.6	B3/5000		
BH (60°-80°)	1699.2	3.6	B3/2500		G3/2500
BVH (80°-90°)	136.8	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	8116.8	8116.8	8116.8	8116.8	8116.8	8116.8	8116.8	8116.8	8116.8	8116.8	8116.8
2.5°	8166.7	8181.0	8191.7	8206.0	8198.8	8177.4	8195.3	8195.3	8156.0	8113.2	8074.0
5°	8177.4	8195.3	8191.7	8188.1	8159.6	8123.9	8123.9	8102.5	8034.7	7966.9	7902.7
7.5°	8156.0	8152.5	8148.9	8138.2	8106.1	8066.8	8059.7	8016.9	7927.7	7834.9	7742.2
10°	8059.7	8056.1	8066.8	8091.8	8084.7	8049.0	8049.0	8009.7	7906.3	7792.1	7670.8
12.5°	7981.2	7981.2	8024.0	8091.8	8116.8	8102.5	8106.1	8077.5	7959.8	7824.2	7681.5
15°	7991.9	7995.5	8088.2	8198.8	8245.2	8234.5	8238.1	8206.0	8074.0	7938.4	7745.7
17.5°	8063.3	8081.1	8241.7	8395.1	8455.7	8441.5	8416.5	8363.0	8213.1	8059.7	7824.2
20°	8213.1	8241.7	8448.6	8641.3	8712.6	8680.5	8637.7	8530.7	8366.5	8198.8	7909.9
22.5°	8509.2	8527.1	8755.4	8944.5	9001.6	8962.4	8876.7	8723.3	8534.2	8359.4	8013.3
25°	8926.7	8948.1	9165.7	9340.5	9326.3	9279.9	9162.2	8973.1	8748.3	8562.8	8163.2
27.5°	9422.6	9458.3	9672.4	9811.5	9718.7	9650.9	9518.9	9290.6	9037.3	8869.6	8391.5
30°	9964.9	9979.2	10161.1	10300.3	10157.6	10064.8	9904.3	9658.1	9429.7	9304.9	8734.0
32.5°	10489.4	10503.7	10660.6	10739.1	10589.3	10521.5	10382.3	10121.9	9961.3	9893.6	9244.2
35°	11042.4	11038.8	11167.3	11235.1	11081.6	11053.1	10910.4	10710.6	10682.0	10771.2	9989.9
37.5°	11595.4	11563.3	11631.1	11720.3	11634.7	11663.2	11570.4	11502.6	11613.2	11845.2	10981.7
40°	12037.8	12037.8	12109.2	12219.8	12248.3	12373.2	12319.7	12408.9	12765.7	13318.7	12209.1
42.5°	12430.3	12433.8	12583.7	12754.9	12961.9	13154.5	13197.4	13429.3	14167.8	15034.8	13750.4
45°	12840.6	12844.1	13047.5	13297.3	13736.1	14103.6	14189.2	14710.1	15766.2	16822.3	15423.7
47.5°	13315.1	13275.8	13557.7	13975.1	14599.5	15127.5	15348.8	16087.3	17421.7	18720.3	17000.6
50°	13850.3	13768.2	14082.2	14802.9	15573.5	16297.8	16668.8	17514.4	19198.4	20472.1	18484.9
52.5°	14453.2	14406.8	14735.1	15612.8	16790.1	17625.0	18128.1	19237.7	20925.2	22216.8	19662.2
55°	15202.5	15091.9	15566.4	16683.1	18217.3	19280.5	19876.3	20943.1	22812.6	23800.9	20561.3
57.5°	16023.1	15901.8	16536.8	18021.0	20072.5	21239.2	21984.9	22862.6	24589.4	25014.0	21089.4
60°	16907.9	16868.6	17621.4	19590.9	22284.6	23640.4	24179.1	24974.7	26134.3	25716.8	20957.4
62.5°	17717.8	17703.5	18798.8	21292.7	24628.6	26120.0	26548.1	26758.6	27247.4	25670.4	19908.4
65°	18570.5	18691.8	20172.4	23265.7	27315.2	28778.0	28956.4	28421.2	27622.0	24453.8	17760.6
67.5°	18677.5	18913.0	21035.9	25113.9	29862.6	31243.4	31100.7	29052.7	26516.0	21068.0	13921.6
70°	16704.5	17114.8	19658.7	25395.7	31657.2	32674.1	31643.0	27693.4	22502.2	15263.1	8755.4
72.5°	13957.3	14310.5	16558.2	21656.7	29341.7	30636.8	29241.8	23440.6	15901.8	8755.4	4459.8
75°	10864.0	11274.3	13347.2	17214.7	21967.1	22484.4	21785.1	16347.7	8741.2	3610.6	2026.5
77.5°	6629.0	6925.1	8537.8	11663.2	15370.2	14595.9	12369.6	9165.7	3835.4	1730.4	1252.3
80°	2932.7	3114.7	4206.5	6265.1	8880.3	8395.1	6618.3	3913.9	2097.9	1098.9	874.1
82.5°	1573.4	1691.1	2072.9	2479.6	3899.6	4078.0	3307.4	2254.9	1127.4	627.9	499.5
85°	692.2	759.9	941.9	899.1	1280.8	1259.4	1270.1	1548.4	538.7	289.0	324.7
87.5°	0.0	0.0	0.0	0.0	3.6	3.6	39.2	206.9	53.5	85.6	74.9
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°	8116.8	8116.8	8116.8	8116.8	8116.8	8116.8	8116.8	8116.8	8116.8	8116.8	8116.8
2.5°	8031.2	7966.9	7949.1	7927.7	7888.4	7820.7	7770.7	7713.6	7688.6	7660.1	7663.7
5°	7831.4	7752.9	7677.9	7581.6	7460.3	7324.7	7232.0	7124.9	7067.8	7014.3	7028.6
7.5°	7660.1	7538.8	7385.4	7182.0	6964.4	6721.8	6525.5	6372.1	6268.7	6197.3	6233.0
10°	7553.1	7410.4	7142.8	6811.0	6443.5	6072.4	5790.6	5526.5	5362.4	5234.0	5226.9
12.5°	7531.7	7346.1	6957.2	6475.6	5944.0	5448.1	5034.2	4677.4	4459.8	4299.2	4359.9
15°	7553.1	7317.6	6796.7	6165.2	5494.4	4823.7	4309.9	3899.6	3639.2	3492.9	3482.2
17.5°	7578.0	7289.1	6614.7	5829.8	5023.5	4256.4	3660.6	3225.3	2957.7	2811.4	2815.0
20°	7599.5	7246.2	6400.7	5462.3	4545.4	3728.4	3111.1	2697.3	2458.2	2351.2	2369.0
22.5°	7635.1	7203.4	6172.3	5069.9	4056.6	3218.2	2675.9	2340.5	2197.8	2126.4	2130.0
25°	7702.9	7178.4	5936.8	4641.7	3575.0	2811.4	2376.2	2151.4	2062.2	2019.4	2015.8
27.5°	7842.1	7199.9	5690.7	4227.9	3139.7	2501.0	2183.5	2037.2	1976.6	1948.0	1944.5
30°	8074.0	7285.5	5476.6	3806.9	2765.1	2258.4	2051.5	1962.3	1926.6	1901.6	1898.1
32.5°	8427.2	7446.0	5244.7	3414.4	2461.8	2080.0	1948.0	1901.6	1876.7	1862.4	1862.4
35°	8962.4	7738.6	5016.4	3071.9	2226.3	1940.9	1866.0	1848.1	1826.7	1819.6	1826.7
37.5°	9733.0	8206.0	4809.4	2772.2	2058.6	1833.9	1776.8	1783.9	1766.1	1776.8	1787.5
40°	10710.6	8830.3	4634.6	2526.0	1933.8	1755.4	1698.3	1723.3	1712.6	1723.3	1741.1
42.5°	11948.6	9604.6	4502.6	2333.4	1844.6	1691.1	1637.6	1662.6	1655.5	1669.7	1687.6
45°	13329.4	10625.0	4441.9	2197.8	1780.3	1644.8	1587.7	1605.5	1598.4	1609.1	1626.9
47.5°	14653.0	11552.6	4495.4	2119.3	1726.8	1605.5	1544.9	1552.0	1548.4	1544.9	1555.6
50°	15794.7	12291.1	4648.9	2094.3	1691.1	1566.3	1509.2	1512.8	1502.1	1480.6	1487.8
52.5°	16725.9	12883.4	4741.6	2094.3	1673.3	1523.5	1469.9	1473.5	1452.1	1423.6	1427.1
55°	17339.6	13122.4	4666.7	2090.7	1666.2	1487.8	1430.7	1434.3	1412.9	1377.2	1380.7
57.5°	17514.4	12890.5	4352.7	2051.5	1659.0	1459.2	1391.4	1398.6	1384.3	1345.1	1345.1
60°	17025.6	12041.4	3778.3	1962.3	1641.2	1441.4	1362.9	1373.6	1366.5	1327.2	1327.2
62.5°	15744.8	10532.2	3093.3	1826.7	1591.2	1420.0	1337.9	1359.3	1377.2	1355.8	1352.2
65°	13347.2	8437.9	2515.3	1676.9	1527.0	1384.3	1302.3	1355.8	1395.0	1423.6	1423.6
67.5°	10014.9	6040.3	2051.5	1519.9	1430.7	1313.0	1255.9	1305.8	1334.4	1352.2	1362.9
70°	6104.5	3553.5	1616.2	1337.9	1291.5	1205.9	1163.1	1113.2	1073.9	1066.8	1070.3
72.5°	2986.3	2033.7	1313.0	1138.1	1102.5	1024.0	927.6	906.2	888.4	877.7	874.1
75°	1644.8	1416.4	1084.6	945.5	881.3	784.9	763.5	727.8	720.7	706.4	710.0
77.5°	1163.1	1116.7	895.5	767.1	670.7	620.8	631.5	606.5	606.5	595.8	592.3
80°	874.1	877.7	688.6	560.1	495.9	478.1	488.8	488.8	481.7	478.1	474.5
82.5°	553.0	624.4	463.8	360.3	353.2	356.8	353.2	349.6	356.8	346.1	342.5
85°	381.8	449.5	281.9	214.1	214.1	210.5	217.6	214.1	221.2	210.5	210.5
87.5°	85.6	199.8	103.5	64.2	67.8	64.2	67.8	71.4	78.5	82.1	82.1
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)