

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: P637308

Luminaire Tested: GWS-SA4C-750-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637308  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-750-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

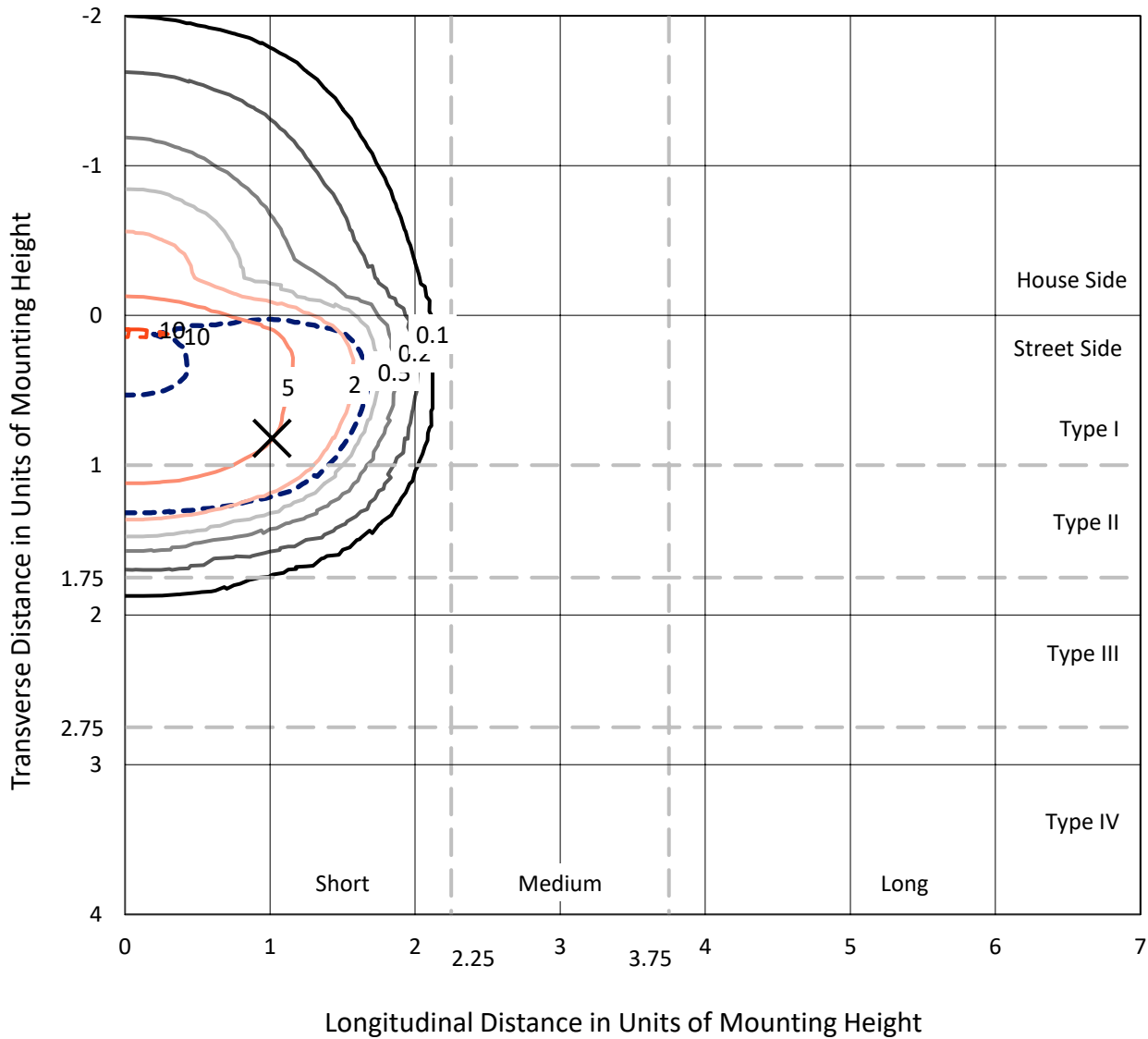
Lumens per Lamp: N/A  
Luminaire Lumens: 18013.8 lumens  
Efficiency: N/A  
Efficacy: 140.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

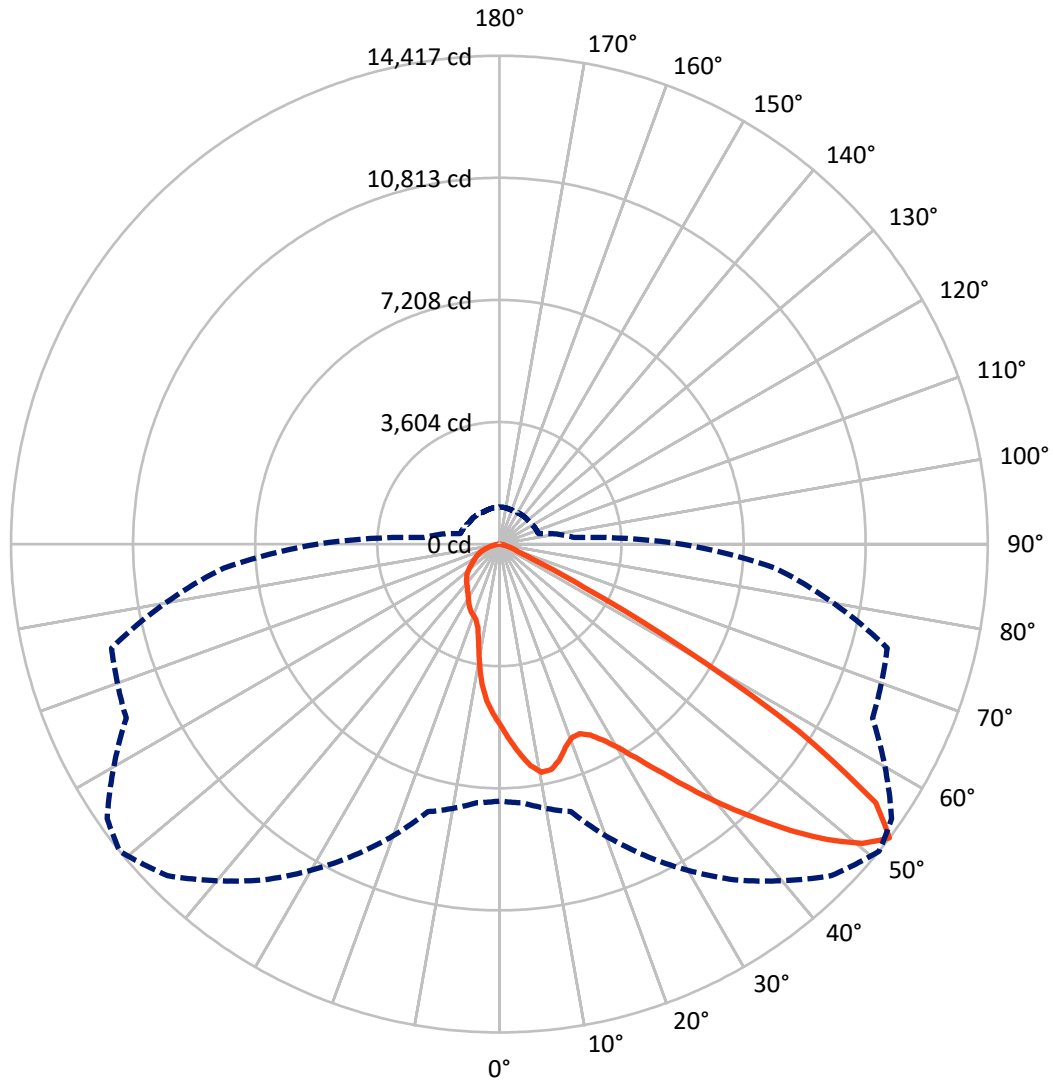
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P637308  
CATALOG NUMBER: GWS-SA4C-750-U-AFL-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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CATALOG NUMBER: GWS-SA4C-750-U-AFL-W-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3509.8	0.0	3509.8
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	14504.0	0.0	14504.0
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	18013.8	0.0	18013.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	500.5	2.8
10°-20°	1300.5	7.2
20°-30°	2114.5	11.7
30°-40°	3351.0	18.6
40°-50°	5054.0	28.1
50°-60°	4372.1	24.3
60°-70°	991.2	5.5
70°-80°	292.3	1.6
80°-90°	37.7	0.2
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°	18013.8	100.0
0°-180°	18013.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P637308

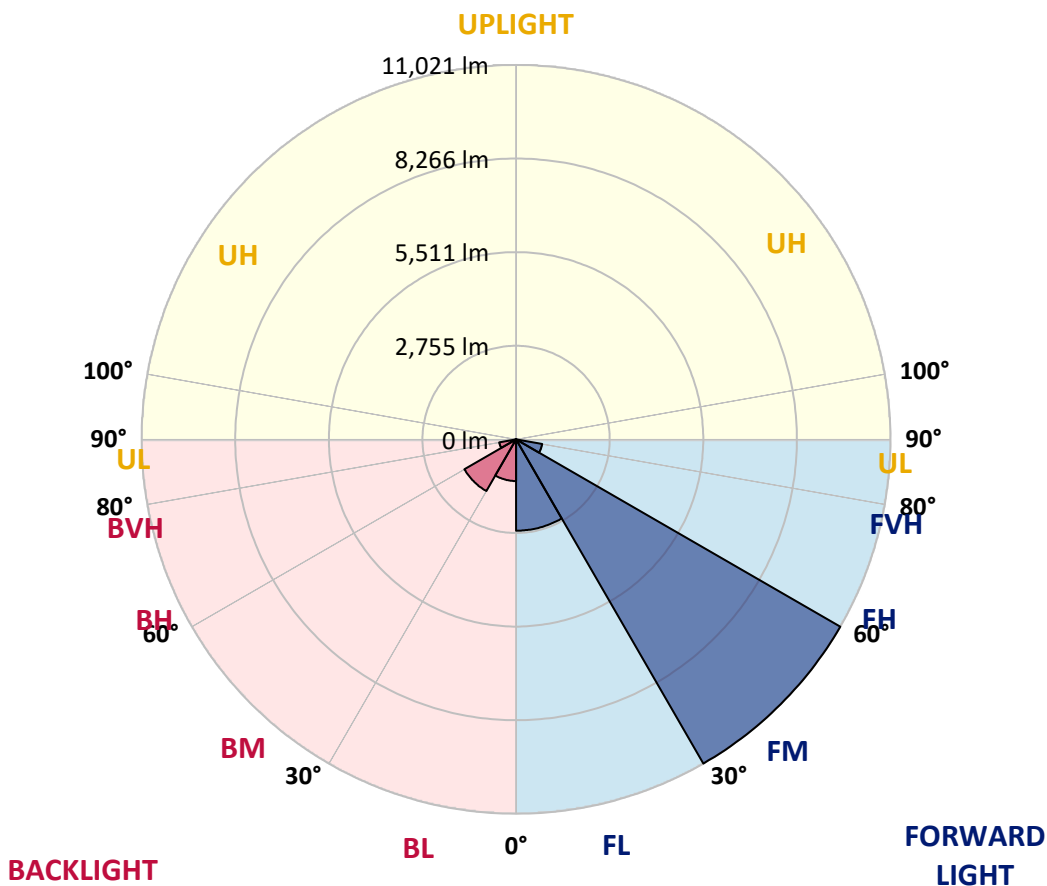
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2688.6	14.9			
FM (30°-60°)	11021.1	61.2			
FH (60°-80°)	780.1	4.3			G1/1800
FVH (80°-90°)	14.2	0.1			G1/100
BL (0°-30°)	1226.9	6.8	B3/2500		
BM (30°-60°)	1756.1	9.7	B2/2500		
BH (60°-80°)	503.4	2.8	B2/1000		G2/1000
BVH (80°-90°)	23.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





REPORT NUMBER: P637308

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	5363.6	5363.6	5363.6	5363.6	5363.6	5363.6	5363.6	5363.6	5363.6	5363.6	5363.6
2.5°	5977.1	6011.3	5958.6	5938.7	5905.9	5849.0	5783.5	5765.0	5624.1	5531.6	5427.7
5°	6577.8	6596.3	6553.6	6510.9	6429.8	6328.7	6202.0	6175.0	5918.8	5706.7	5486.0
7.5°	6711.6	6704.5	6741.5	6765.7	6755.8	6715.9	6603.4	6550.8	6244.7	5908.8	5582.8
10°	6182.1	6142.2	6278.9	6441.2	6636.2	6861.1	6848.3	6844.0	6577.8	6180.7	5706.7
12.5°	5480.3	5460.4	5571.4	5775.0	6143.7	6641.9	6828.3	6973.5	6878.2	6439.7	5844.7
15°	5078.9	5071.8	5147.2	5293.9	5587.1	6216.3	6614.8	6902.4	7135.8	6717.3	5991.4
17.5°	5006.3	5010.6	5036.2	5120.2	5330.9	5849.0	6310.2	6711.6	7336.5	7021.9	6175.0
20°	5218.4	5246.9	5202.8	5215.6	5329.4	5716.6	6102.4	6519.5	7464.6	7328.0	6372.8
22.5°	5689.6	5679.6	5582.8	5525.9	5527.3	5797.8	6079.6	6429.8	7548.6	7625.5	6552.2
25°	6223.4	6212.0	6096.7	5970.0	5890.3	6018.4	6243.3	6525.2	7624.1	7897.4	6696.0
27.5°	6854.0	6818.4	6690.3	6528.0	6351.5	6407.0	6559.3	6782.8	7740.8	8165.0	6791.3
30°	7464.6	7505.9	7322.3	7130.1	6943.7	6909.5	6997.7	7199.9	7978.5	8478.1	6905.2
32.5°	8274.6	8260.4	8056.8	7806.3	7540.1	7514.5	7584.2	7769.3	8405.5	8910.9	7078.9
35°	9255.4	9258.2	8969.2	8630.5	8251.8	8183.5	8300.2	8479.6	9041.8	9497.3	7353.6
37.5°	10274.6	10270.3	10018.3	9634.0	9117.3	9020.5	9154.3	9288.1	9837.5	10295.9	7780.6
40°	10989.1	11017.6	10899.5	10697.3	10207.7	9971.4	10089.5	10182.0	10703.0	11235.4	8342.9
42.5°	11394.8	11437.5	11463.1	11584.1	11326.5	11074.5	11031.8	11080.2	11476.0	12108.0	8871.0
45°	11481.6	11538.6	11725.1	12173.5	12273.1	12201.9	12062.4	11945.7	12052.5	12727.2	9216.9
47.5°	11098.7	11198.4	11596.9	12381.3	12963.5	13187.0	13031.8	12853.9	12385.5	12886.6	9181.3
50°	9581.3	9698.1	10596.3	11957.1	13061.7	13875.9	13890.1	13626.8	12345.7	12426.8	8734.4
52.5°	7585.6	7665.3	8179.2	10136.5	12098.0	13847.4	14416.8	14135.0	12153.5	11851.7	8174.9
55°	4533.7	4661.8	5141.5	6687.4	9424.7	12273.1	13485.9	13622.5	12059.6	11369.2	7793.5
57.5°	1530.2	1592.9	2051.2	2953.7	5554.4	8986.3	10419.7	10974.9	10947.9	10631.8	7049.0
60°	728.8	743.0	835.6	1120.3	2223.4	4696.0	6167.9	6808.4	7392.0	7450.4	4385.7
62.5°	555.2	563.7	610.7	671.9	893.9	1978.6	2827.0	3316.7	3543.0	3040.5	1597.1
65°	464.0	471.2	506.8	545.2	607.8	856.9	1084.7	1251.2	1127.4	878.3	761.6
67.5°	387.2	392.9	419.9	461.2	503.9	573.7	602.1	619.2	649.1	728.8	700.3
70°	303.2	308.9	337.4	372.9	414.2	431.3	458.4	475.4	535.2	637.7	634.9
72.5°	233.4	240.6	256.2	279.0	313.2	330.2	360.1	380.1	414.2	496.8	531.0
75°	170.8	175.1	189.3	196.4	200.7	196.4	226.3	249.1	294.7	326.0	334.5
77.5°	69.7	78.3	75.4	75.4	89.7	108.2	123.8	138.1	169.4	187.9	189.3
80°	28.5	31.3	37.0	41.3	49.8	64.1	74.0	79.7	93.9	105.3	113.9
82.5°	17.1	18.5	21.4	22.8	28.5	37.0	42.7	47.0	58.4	69.7	74.0
85°	8.5	8.5	10.0	11.4	14.2	17.1	19.9	22.8	29.9	37.0	41.3
87.5°	1.4	1.4	1.4	2.8	4.3	5.7	7.1	8.5	10.0	11.4	14.2
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°	5363.6	5363.6	5363.6	5363.6	5363.6	5363.6	5363.6	5363.6	5363.6	5363.6	5363.6
2.5°	5366.5	5289.6	5199.9	5128.7	5046.2	4985.0	4898.1	4844.0	4792.8	4750.1	4718.8
5°	5372.1	5242.6	5056.1	4891.0	4720.2	4557.9	4391.4	4256.2	4135.2	4034.1	4025.6
7.5°	5404.9	5218.4	4926.6	4637.6	4304.6	3982.8	3661.1	3399.2	3199.9	3096.0	3074.7
10°	5460.4	5215.6	4794.2	4333.0	3765.1	3246.9	2865.4	2666.1	2550.8	2509.6	2495.3
12.5°	5518.8	5208.4	4624.8	3903.1	3114.5	2660.5	2451.2	2427.0	2448.4	2451.2	2449.8
15°	5589.9	5204.2	4411.3	3399.2	2639.1	2388.6	2402.8	2454.0	2503.9	2515.3	2515.3
17.5°	5676.8	5194.2	4120.9	2906.7	2341.6	2335.9	2411.3	2479.7	2526.6	2535.2	2535.2
20°	5767.9	5168.6	3763.6	2505.3	2220.6	2303.2	2384.3	2437.0	2469.7	2481.1	2482.5
22.5°	5830.5	5100.3	3352.3	2207.8	2145.2	2240.5	2298.9	2353.0	2353.0	2324.5	2316.0
25°	5843.3	4953.6	2906.7	2004.2	2055.5	2143.7	2203.5	2172.2	2113.8	2091.1	2089.6
27.5°	5796.3	4740.1	2466.9	1859.0	1947.3	2035.6	2025.6	1980.0	1954.4	1931.6	1940.2
30°	5739.4	4483.9	2085.4	1739.5	1822.0	1908.9	1874.7	1859.0	1840.5	1814.9	1820.6
32.5°	5701.0	4197.8	1792.1	1646.9	1738.0	1752.3	1776.5	1775.1	1758.0	1709.6	1706.7
35°	5712.4	3908.8	1595.7	1571.5	1668.3	1662.6	1708.2	1699.6	1581.5	1514.6	1510.3
37.5°	5803.5	3631.3	1480.4	1511.7	1557.3	1592.9	1632.7	1530.2	1488.9	1446.2	1449.1
40°	5977.1	3373.6	1417.8	1479.0	1490.4	1543.0	1450.5	1449.1	1430.6	1392.1	1390.7
42.5°	6173.6	3155.8	1375.1	1463.3	1447.7	1457.6	1359.4	1370.8	1369.4	1345.2	1338.1
45°	6293.1	2955.1	1340.9	1405.0	1409.2	1309.6	1279.7	1292.5	1299.6	1286.8	1285.4
47.5°	6169.3	2724.5	1305.3	1315.3	1352.3	1242.7	1205.7	1207.1	1219.9	1221.3	1215.6
50°	5822.0	2466.9	1262.6	1238.4	1214.2	1172.9	1138.8	1131.7	1144.5	1157.3	1161.5
52.5°	5373.6	2220.6	1191.4	1154.4	1097.5	1097.5	1081.8	1059.1	1076.1	1093.2	1098.9
55°	5044.8	2038.4	1090.4	1049.1	986.5	1007.8	1005.0	985.0	1007.8	1020.6	1024.9
57.5°	4371.5	1638.4	959.4	946.6	893.9	919.6	925.3	899.6	888.2	891.1	895.4
60°	2595.0	1057.6	865.5	864.0	817.1	847.0	864.0	838.4	804.3	808.5	814.2
62.5°	1164.4	808.5	747.3	741.6	740.2	778.6	797.1	772.9	724.5	728.8	734.5
65°	733.1	698.9	649.1	649.1	671.9	704.6	718.8	698.9	643.4	636.3	642.0
67.5°	680.4	650.5	599.3	589.3	600.7	627.7	629.2	590.7	558.0	552.3	552.3
70°	610.7	587.9	538.1	518.1	513.9	512.4	508.2	498.2	476.9	471.2	474.0
72.5°	505.3	489.7	458.4	437.0	425.6	424.2	407.1	398.6	380.1	377.2	375.8
75°	334.5	338.8	338.8	335.9	326.0	321.7	303.2	294.7	273.3	264.8	263.3
77.5°	197.9	202.1	207.8	209.2	207.8	207.8	190.7	180.8	159.4	148.0	145.2
80°	121.0	123.8	126.7	131.0	125.3	121.0	105.3	95.4	85.4	78.3	76.9
82.5°	78.3	81.1	82.6	85.4	82.6	76.9	64.1	58.4	51.2	45.6	44.1
85°	44.1	45.6	48.4	48.4	44.1	39.9	32.7	28.5	24.2	21.4	21.4
87.5°	15.7	15.7	15.7	17.1	14.2	12.8	8.5	5.7	4.3	4.3	4.3
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)