

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: P643263

Luminaire Tested: GWS-SA6E-750-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643263  
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-SAGE-750-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

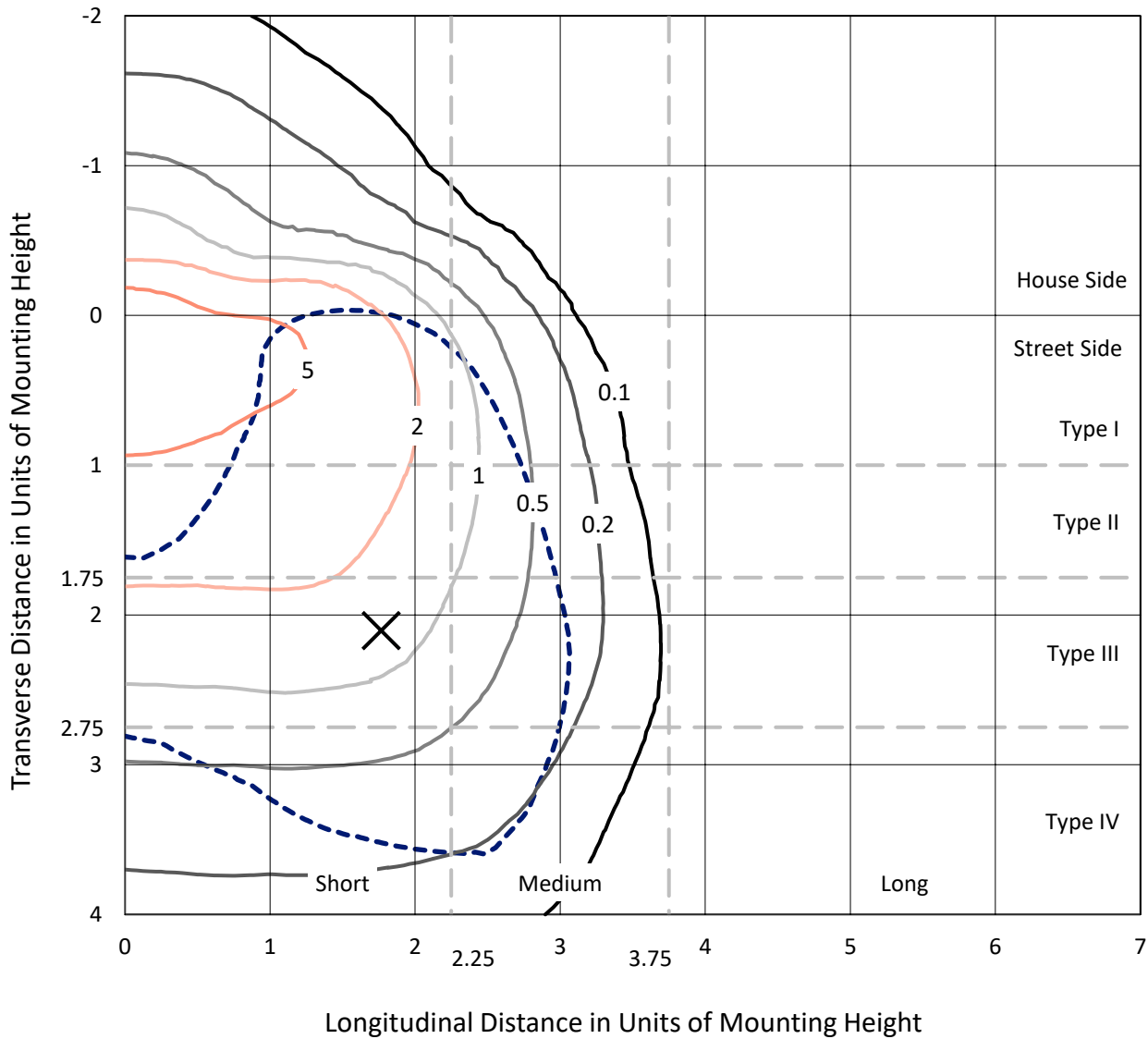
Lumens per Lamp: N/A  
Luminaire Lumens: 43976.7 lumens  
Efficiency: N/A  
Efficacy: 135.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

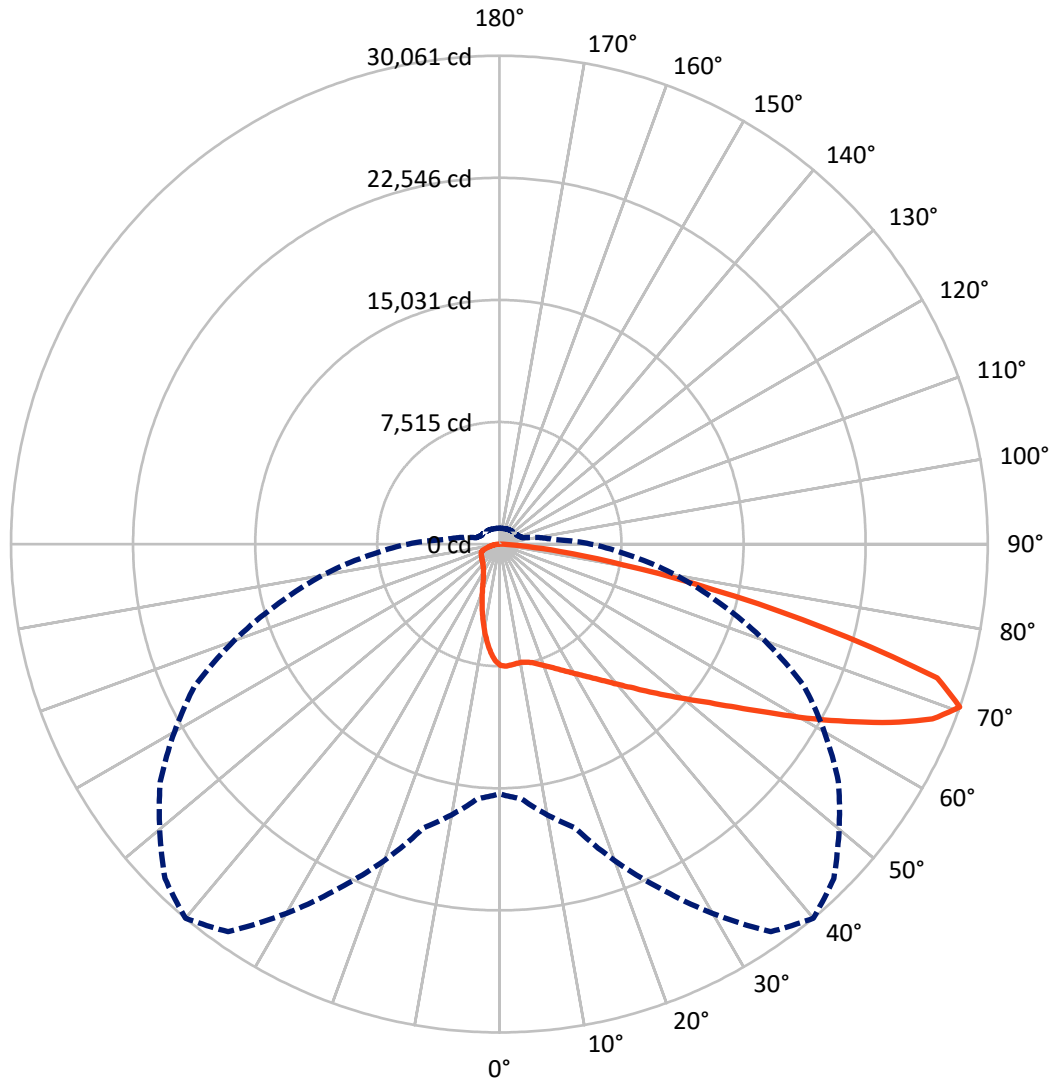
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 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	6773.5	0.0	6773.5
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	37203.2	0.0	37203.2
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	43976.7	0.0	43976.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	659.7	1.5
10°-20°	1719.6	3.9
20°-30°	2700.1	6.1
30°-40°	4059.6	9.2
40°-50°	6266.1	14.2
50°-60°	9305.8	21.2
60°-70°	11729.7	26.7
70°-80°	6783.2	15.4
80°-90°	752.8	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°	43976.7	100.0
0°-180°	43976.7	100.0

**Coefficient of Utilization**



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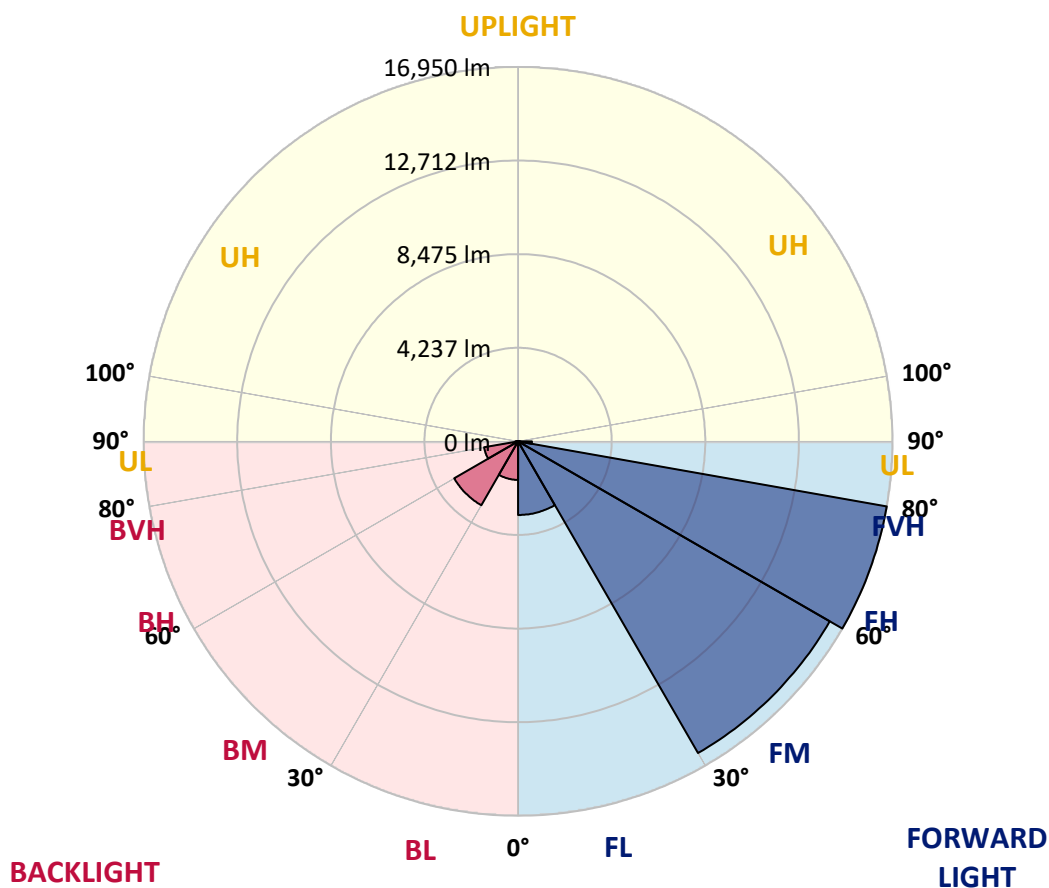
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3333.8	7.6			
FM (30°-60°)	16292.8	37.0			
FH (60°-80°)	16949.6	38.5			G5
FVH (80°-90°)	627.0	1.4			G4/750
BL (0°-30°)	1745.6	4.0	B3/2500		
BM (30°-60°)	3338.7	7.6	B3/5000		
BH (60°-80°)	1563.3	3.6	B3/2500		G3/2500
BVH (80°-90°)	125.8	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°	7467.7	7467.7	7467.7	7467.7	7467.7	7467.7	7467.7	7467.7	7467.7	7467.7	7467.7
2.5°	7513.7	7526.8	7536.7	7549.8	7543.2	7523.6	7540.0	7540.0	7503.9	7464.5	7428.4
5°	7523.6	7540.0	7536.7	7533.4	7507.1	7474.3	7474.3	7454.6	7392.2	7329.9	7270.8
7.5°	7503.9	7500.6	7497.3	7487.4	7457.9	7421.8	7415.2	7375.8	7293.8	7208.4	7123.1
10°	7415.2	7411.9	7421.8	7444.8	7438.2	7405.4	7405.4	7369.3	7274.1	7169.0	7057.4
12.5°	7343.0	7343.0	7382.4	7444.8	7467.7	7454.6	7457.9	7431.6	7323.3	7198.6	7067.3
15°	7352.9	7356.1	7441.5	7543.2	7585.9	7576.1	7579.4	7549.8	7428.4	7303.6	7126.4
17.5°	7418.5	7434.9	7582.6	7723.8	7779.6	7766.5	7743.5	7694.2	7556.4	7415.2	7198.6
20°	7556.4	7582.6	7773.0	7950.3	8015.9	7986.4	7947.0	7848.5	7697.5	7543.2	7277.4
22.5°	7828.8	7845.2	8055.3	8229.3	8281.8	8245.7	8166.9	8025.8	7851.8	7691.0	7372.6
25°	8212.9	8232.6	8432.8	8593.7	8580.5	8537.9	8429.5	8255.6	8048.8	7878.1	7510.4
27.5°	8669.2	8702.0	8898.9	9026.9	8941.6	8879.2	8757.8	8547.7	8314.6	8160.4	7720.5
30°	9168.1	9181.2	9348.6	9476.7	9345.4	9260.0	9112.3	8885.8	8675.7	8560.8	8035.6
32.5°	9650.6	9663.8	9808.2	9880.4	9742.5	9680.2	9552.2	9312.5	9164.8	9102.4	8505.0
35°	10159.4	10156.1	10274.3	10336.7	10195.5	10169.3	10038.0	9854.1	9827.9	9909.9	9191.1
37.5°	10668.2	10638.7	10701.0	10783.1	10704.3	10730.6	10645.2	10582.9	10684.6	10898.0	10103.6
40°	11075.2	11075.2	11140.9	11242.7	11268.9	11383.8	11334.6	11416.6	11744.9	12253.7	11232.8
42.5°	11436.3	11439.6	11577.5	11735.0	11925.4	12102.7	12142.1	12355.4	13034.9	13832.6	12650.9
45°	11813.8	11817.1	12004.2	12234.0	12637.7	12975.8	13054.6	13533.9	14505.5	15477.1	14190.4
47.5°	12250.4	12214.3	12473.6	12857.7	13432.1	13917.9	14121.4	14800.9	16028.6	17223.4	15641.2
50°	12742.8	12667.3	12956.1	13619.2	14328.2	14994.6	15336.0	16113.9	17663.3	18835.1	17006.8
52.5°	13297.5	13254.8	13556.8	14364.3	15447.6	16215.7	16678.5	17699.4	19252.0	20440.3	18090.0
55°	13986.8	13885.1	14321.7	15349.1	16760.6	17738.8	18287.0	19268.4	20988.5	21897.7	18917.2
57.5°	14741.8	14630.2	15214.5	16580.0	18467.5	19540.9	20226.9	21034.4	22623.2	23013.8	19403.0
60°	15555.9	15519.8	16212.4	18024.4	20502.7	21750.0	22245.7	22977.7	24044.5	23660.5	19281.6
62.5°	16301.0	16287.9	17295.6	19590.1	22659.3	24031.4	24425.3	24618.9	25068.7	23617.8	18316.5
65°	17085.6	17197.2	18559.4	21405.4	25131.0	26476.9	26641.0	26148.6	25413.3	22498.4	16340.4
67.5°	17184.0	17400.7	19353.8	23105.7	27474.7	28745.1	28613.8	26729.6	24395.7	19383.3	12808.4
70°	15368.8	15746.3	18086.7	23365.0	29125.9	30061.4	29112.7	25479.0	20702.9	14042.6	8055.3
72.5°	12841.2	13166.2	15234.2	19924.9	26995.5	28187.1	26903.6	21566.2	14630.2	8055.3	4103.2
75°	9995.3	10372.8	12279.9	15838.2	20210.5	20686.5	20043.1	15040.5	8042.2	3321.9	1864.5
77.5°	6098.9	6371.4	7855.1	10730.6	14141.1	13428.8	11380.5	8432.8	3528.7	1592.0	1152.2
80°	2698.2	2865.6	3870.1	5764.1	8170.2	7723.8	6089.1	3600.9	1930.1	1011.0	804.2
82.5°	1447.6	1555.9	1907.1	2281.4	3587.8	3751.9	3042.9	2074.6	1037.3	577.7	459.6
85°	636.8	699.2	866.6	827.2	1178.4	1158.7	1168.6	1424.6	495.7	265.9	298.7
87.5°	0.0	0.0	0.0	0.0	3.3	3.3	36.1	190.4	49.2	78.8	68.9
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°	7467.7	7467.7	7467.7	7467.7	7467.7	7467.7	7467.7	7467.7	7467.7	7467.7	7467.7
2.5°	7389.0	7329.9	7313.5	7293.8	7257.7	7195.3	7149.3	7096.8	7073.8	7047.6	7050.9
5°	7205.1	7132.9	7064.0	6975.4	6863.8	6739.0	6653.7	6555.2	6502.7	6453.4	6466.6
7.5°	7047.6	6936.0	6794.8	6607.7	6407.5	6184.3	6003.7	5862.6	5767.4	5701.7	5734.6
10°	6949.1	6817.8	6571.6	6266.3	5928.2	5586.9	5327.5	5084.6	4933.6	4815.5	4808.9
12.5°	6929.4	6758.7	6400.9	5957.8	5468.7	5012.4	4631.6	4303.4	4103.2	3955.4	4011.2
15°	6949.1	6732.5	6253.2	5672.2	5055.1	4438.0	3965.3	3587.8	3348.2	3213.6	3203.7
17.5°	6972.1	6706.2	6085.8	5363.6	4621.8	3916.1	3367.9	2967.4	2721.2	2586.6	2589.9
20°	6991.8	6666.8	5888.9	5025.5	4181.9	3430.2	2862.4	2481.6	2261.7	2163.2	2179.6
22.5°	7024.6	6627.4	5678.8	4664.5	3732.2	2960.8	2461.9	2153.3	2022.0	1956.4	1959.7
25°	7087.0	6604.4	5462.1	4270.6	3289.1	2586.6	2186.2	1979.4	1897.3	1857.9	1854.6
27.5°	7215.0	6624.1	5235.6	3889.8	2888.6	2301.1	2008.9	1874.3	1818.5	1792.3	1789.0
30°	7428.4	6702.9	5038.7	3502.5	2544.0	2077.8	1887.5	1805.4	1772.6	1749.6	1746.3
32.5°	7753.3	6850.6	4825.3	3141.4	2264.9	1913.7	1792.3	1749.6	1726.6	1713.5	1713.5
35°	8245.7	7119.8	4615.2	2826.3	2048.3	1785.7	1716.8	1700.3	1680.7	1674.1	1680.7
37.5°	8954.7	7549.8	4424.8	2550.5	1894.0	1687.2	1634.7	1641.3	1624.9	1634.7	1644.5
40°	9854.1	8124.3	4264.0	2324.0	1779.1	1615.0	1562.5	1585.5	1575.6	1585.5	1601.9
42.5°	10993.2	8836.6	4142.5	2146.8	1697.1	1555.9	1506.7	1529.7	1523.1	1536.2	1552.6
45°	12263.5	9775.4	4086.7	2022.0	1638.0	1513.2	1460.7	1477.1	1470.6	1480.4	1496.8
47.5°	13481.3	10628.8	4136.0	1949.8	1588.7	1477.1	1421.3	1427.9	1424.6	1421.3	1431.2
50°	14531.7	11308.3	4277.1	1926.8	1555.9	1441.0	1388.5	1391.8	1381.9	1362.2	1368.8
52.5°	15388.5	11853.2	4362.5	1926.8	1539.5	1401.6	1352.4	1355.7	1336.0	1309.7	1313.0
55°	15953.1	12073.1	4293.5	1923.6	1532.9	1368.8	1316.3	1319.6	1299.9	1267.1	1270.3
57.5°	16113.9	11859.8	4004.7	1887.5	1526.4	1342.6	1280.2	1286.8	1273.6	1237.5	1237.5
60°	15664.2	11078.5	3476.2	1805.4	1510.0	1326.1	1253.9	1263.8	1257.2	1221.1	1221.1
62.5°	14485.8	9690.0	2846.0	1680.7	1464.0	1306.4	1230.9	1250.6	1267.1	1247.4	1244.1
65°	12279.9	7763.2	2314.2	1542.8	1404.9	1273.6	1198.1	1247.4	1283.5	1309.7	1309.7
67.5°	9214.1	5557.3	1887.5	1398.4	1316.3	1208.0	1155.4	1201.4	1227.7	1244.1	1253.9
70°	5616.4	3269.4	1487.0	1230.9	1188.3	1109.5	1070.1	1024.1	988.0	981.5	984.8
72.5°	2747.5	1871.0	1208.0	1047.1	1014.3	942.1	853.5	833.8	817.3	807.5	804.2
75°	1513.2	1303.2	997.9	869.9	810.8	722.2	702.5	669.6	663.1	649.9	653.2
77.5°	1070.1	1027.4	823.9	705.7	617.1	571.2	581.0	558.0	558.0	548.2	544.9
80°	804.2	807.5	633.5	515.4	456.3	439.9	449.7	449.7	443.1	439.9	436.6
82.5°	508.8	574.4	426.7	331.5	325.0	328.3	325.0	321.7	328.3	318.4	315.1
85°	351.2	413.6	259.3	197.0	197.0	193.7	200.2	197.0	203.5	193.7	193.7
87.5°	78.8	183.8	95.2	59.1	62.4	59.1	62.4	65.7	72.2	75.5	75.5
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)