

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: P641173

Luminaire Tested: GWS-SA5F-735-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641173  
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-SA5F-735-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

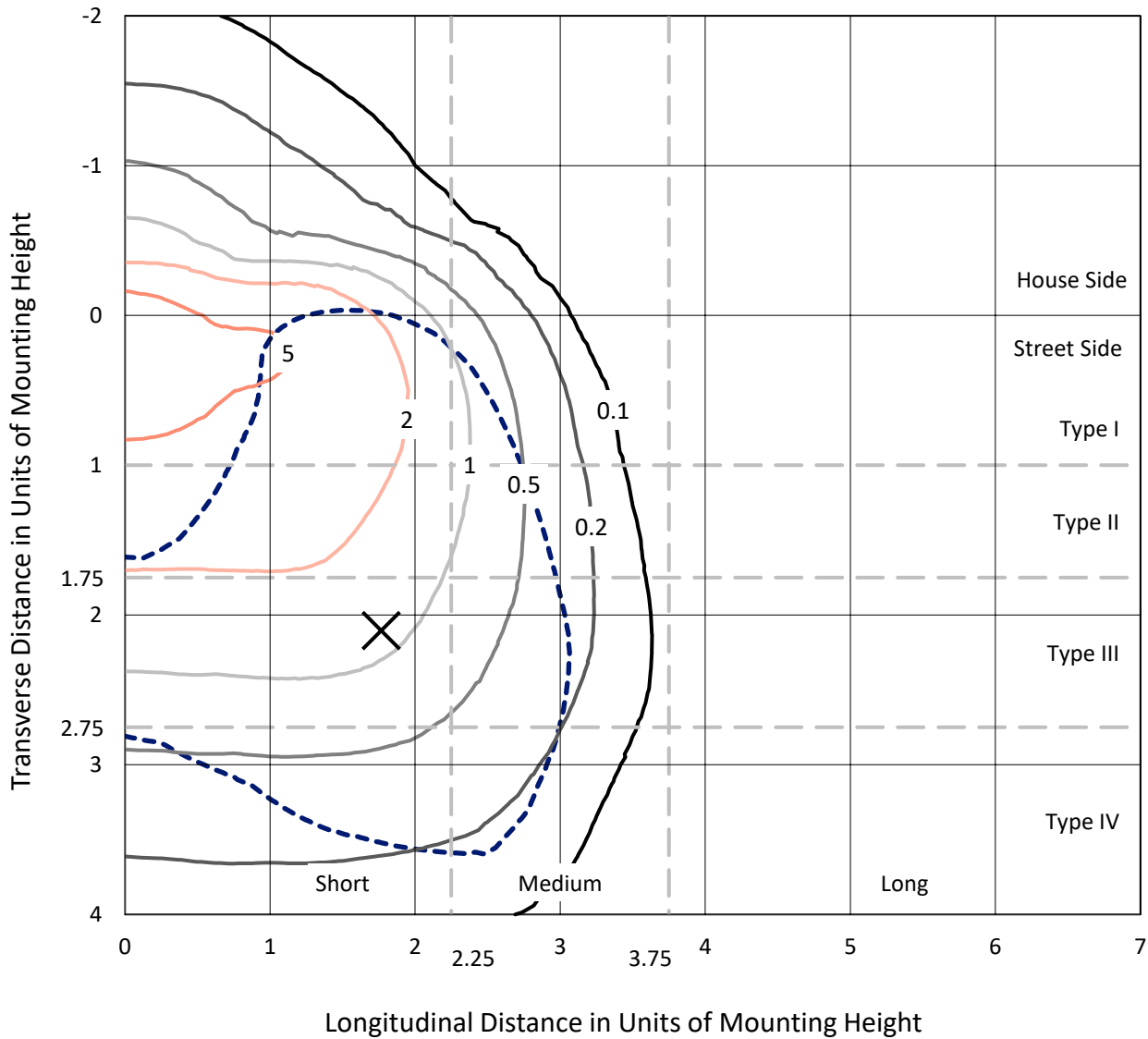
Lumens per Lamp: N/A  
Luminaire Lumens: 39535.8 lumens  
Efficiency: N/A  
Efficacy: 127.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

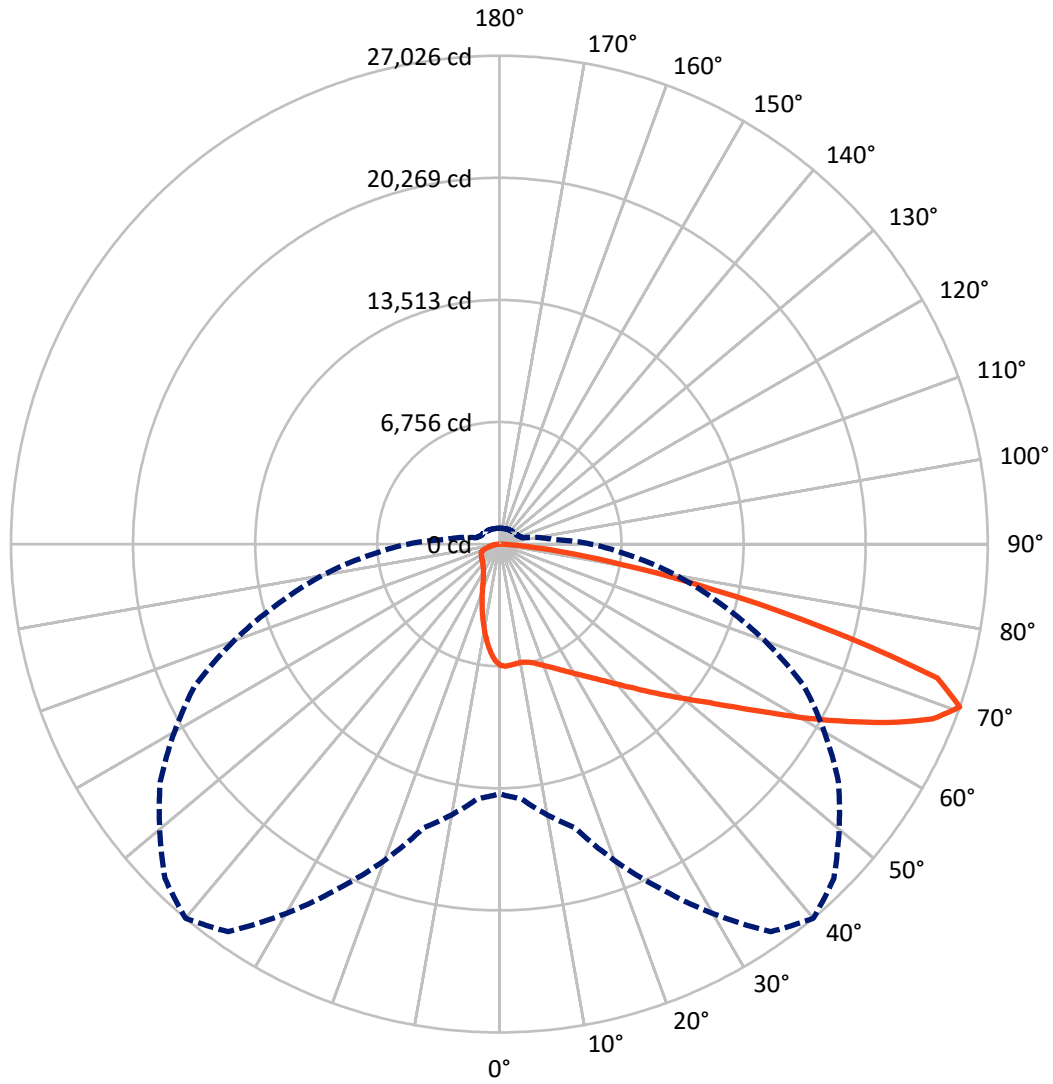
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 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	6089.5	0.0	6089.5
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	33446.3	0.0	33446.3
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	39535.8	0.0	39535.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	593.1	1.5
10°-20°	1545.9	3.9
20°-30°	2427.4	6.1
30°-40°	3649.7	9.2
40°-50°	5633.4	14.2
50°-60°	8366.0	21.2
60°-70°	10545.2	26.7
70°-80°	6098.2	15.4
80°-90°	676.8	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°	39535.8	100.0
0°-180°	39535.8	100.0

**Coefficient of Utilization**



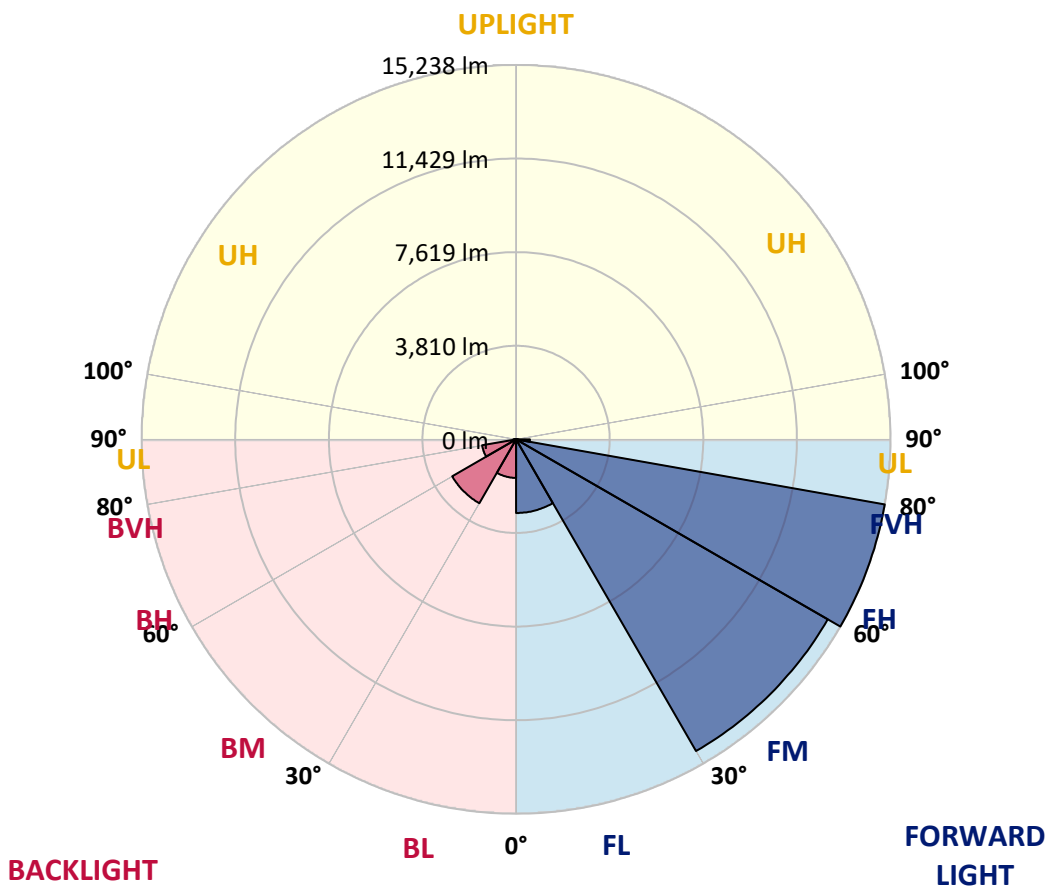
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2997.1	7.6			
FM (30°-60°)	14647.5	37.0			
FH (60°-80°)	15238.0	38.5			G5
FVH (80°-90°)	563.7	1.4			G4/750
BL (0°-30°)	1569.3	4.0	B3/2500		
BM (30°-60°)	3001.6	7.6	B3/5000		
BH (60°-80°)	1405.5	3.6	B3/2500		G3/2500
BVH (80°-90°)	113.1	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6
2.5°	6754.9	6766.8	6775.6	6787.4	6781.5	6763.8	6778.6	6778.6	6746.1	6710.7	6678.2
5°	6763.8	6778.6	6775.6	6772.7	6749.0	6719.5	6719.5	6701.8	6645.8	6589.7	6536.6
7.5°	6746.1	6743.1	6740.2	6731.3	6704.8	6672.3	6666.4	6631.0	6557.2	6480.5	6403.8
10°	6666.4	6663.5	6672.3	6693.0	6687.1	6657.6	6657.6	6625.1	6539.5	6445.1	6344.8
12.5°	6601.5	6601.5	6636.9	6693.0	6713.6	6701.8	6704.8	6681.2	6583.8	6471.6	6353.6
15°	6610.3	6613.3	6690.0	6781.5	6819.9	6811.0	6814.0	6787.4	6678.2	6566.1	6406.7
17.5°	6669.4	6684.1	6816.9	6943.8	6994.0	6982.2	6961.5	6917.3	6793.3	6666.4	6471.6
20°	6793.3	6816.9	6988.1	7147.4	7206.5	7179.9	7144.5	7056.0	6920.2	6781.5	6542.5
22.5°	7038.2	7053.0	7241.9	7398.3	7445.5	7413.0	7342.2	7215.3	7058.9	6914.3	6628.1
25°	7383.5	7401.2	7581.2	7725.8	7714.0	7675.7	7578.3	7421.9	7236.0	7082.5	6752.0
27.5°	7793.7	7823.2	8000.3	8115.4	8038.7	7982.6	7873.4	7684.5	7475.0	7336.3	6940.9
30°	8242.3	8254.1	8404.6	8519.7	8401.6	8324.9	8192.1	7988.5	7799.6	7696.3	7224.2
32.5°	8676.1	8687.9	8817.7	8882.7	8758.7	8702.6	8587.5	8372.1	8239.3	8183.3	7646.2
35°	9133.5	9130.5	9236.8	9292.8	9166.0	9142.3	9024.3	8859.0	8835.4	8909.2	8262.9
37.5°	9590.9	9564.3	9620.4	9694.2	9623.4	9647.0	9570.2	9514.2	9605.7	9797.5	9083.3
40°	9956.8	9956.8	10015.9	10107.3	10130.9	10234.2	10190.0	10263.7	10558.8	11016.3	10098.5
42.5°	10281.4	10284.4	10408.3	10550.0	10721.2	10880.5	10915.9	11107.7	11718.6	12435.7	11373.3
45°	10620.8	10623.8	10792.0	10998.6	11361.5	11665.5	11736.3	12167.2	13040.7	13914.2	12757.4
47.5°	11013.3	10980.8	11214.0	11559.3	12075.7	12512.4	12695.4	13306.3	14410.0	15484.1	14061.7
50°	11456.0	11388.1	11647.8	12243.9	12881.3	13480.4	13787.3	14486.7	15879.6	16933.1	15289.4
52.5°	11954.7	11916.3	12187.8	12913.8	13887.6	14578.2	14994.3	15912.0	17307.9	18376.2	16263.2
55°	12574.4	12482.9	12875.4	13799.1	15068.0	15947.5	16440.3	17322.6	18869.0	19686.4	17006.9
57.5°	13253.2	13152.8	13678.1	14905.7	16602.6	17567.6	18184.4	18910.3	20338.6	20689.8	17443.6
60°	13985.0	13952.6	14575.2	16204.2	18432.2	19553.6	19999.2	20657.3	21616.4	21271.1	17334.5
62.5°	14654.9	14643.1	15549.1	17611.8	20371.1	21604.6	21958.7	22132.9	22537.1	21232.8	16466.8
65°	15360.2	15460.5	16685.2	19243.8	22593.2	23803.1	23950.7	23508.0	22847.0	20226.5	14690.3
67.5°	15448.7	15643.5	17399.4	20772.4	24700.3	25842.3	25724.3	24030.4	21932.2	17425.9	11515.0
70°	13816.8	14156.2	16260.3	21005.6	26184.6	27025.7	26172.8	22906.0	18612.3	12624.6	7241.9
72.5°	11544.5	11836.6	13695.8	17912.9	24269.4	25340.6	24186.8	19388.4	13152.8	7241.9	3688.8
75°	8985.9	9325.3	11039.9	14238.8	18169.6	18597.5	18019.1	13521.7	7230.1	2986.5	1676.2
77.5°	5483.0	5728.0	7061.9	9647.0	12713.1	12072.7	10231.3	7581.2	3172.4	1431.3	1035.8
80°	2425.8	2576.3	3479.3	5182.0	7345.2	6943.8	5474.2	3237.3	1735.2	908.9	723.0
82.5°	1301.4	1398.8	1714.6	2051.0	3225.5	3373.0	2735.6	1865.1	932.5	519.4	413.1
85°	572.5	628.6	779.1	743.7	1059.4	1041.7	1050.6	1280.8	445.6	239.0	268.5
87.5°	0.0	0.0	0.0	0.0	3.0	3.0	32.5	171.2	44.3	70.8	62.0
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°	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6
2.5°	6642.8	6589.7	6574.9	6557.2	6524.8	6468.7	6427.4	6380.2	6359.5	6335.9	6338.8
5°	6477.5	6412.6	6350.7	6271.0	6170.6	6058.5	5981.8	5893.2	5846.0	5801.8	5813.6
7.5°	6335.9	6235.6	6108.7	5940.5	5760.4	5559.8	5397.5	5270.6	5185.0	5126.0	5155.5
10°	6247.4	6129.3	5908.0	5633.5	5329.6	5022.7	4789.5	4571.2	4435.4	4329.2	4323.3
12.5°	6229.7	6076.2	5754.5	5356.2	4916.4	4506.2	4163.9	3868.8	3688.8	3556.0	3606.2
15°	6247.4	6052.6	5621.7	5099.4	4544.6	3989.8	3564.9	3225.5	3010.1	2889.1	2880.2
17.5°	6268.0	6029.0	5471.2	4822.0	4155.1	3520.6	3027.8	2667.7	2446.4	2325.4	2328.4
20°	6285.7	5993.6	5294.2	4518.1	3759.6	3083.8	2573.3	2231.0	2033.3	1944.7	1959.5
22.5°	6315.2	5958.2	5105.3	4193.4	3355.3	2661.8	2213.3	1935.9	1817.8	1758.8	1761.8
25°	6371.3	5937.5	4910.5	3839.3	2956.9	2325.4	1965.4	1779.5	1705.7	1670.3	1667.3
27.5°	6486.4	5955.2	4706.9	3497.0	2596.9	2068.7	1806.0	1685.0	1634.9	1611.3	1608.3
30°	6678.2	6026.0	4529.9	3148.8	2287.1	1868.0	1696.9	1623.1	1593.6	1572.9	1570.0
32.5°	6970.4	6158.8	4338.0	2824.2	2036.2	1720.5	1611.3	1572.9	1552.3	1540.4	1540.4
35°	7413.0	6400.8	4149.2	2540.9	1841.5	1605.4	1543.4	1528.6	1510.9	1505.0	1510.9
37.5°	8050.5	6787.4	3978.0	2293.0	1702.8	1516.8	1469.6	1475.5	1460.8	1469.6	1478.5
40°	8859.0	7303.8	3833.4	2089.3	1599.5	1451.9	1404.7	1425.4	1416.5	1425.4	1440.1
42.5°	9883.1	7944.2	3724.2	1930.0	1525.7	1398.8	1354.5	1375.2	1369.3	1381.1	1395.8
45°	11025.1	8788.2	3674.1	1817.8	1472.6	1360.4	1313.2	1328.0	1322.1	1330.9	1345.7
47.5°	12120.0	9555.5	3718.3	1752.9	1428.3	1328.0	1277.8	1283.7	1280.8	1277.8	1286.7
50°	13064.3	10166.4	3845.2	1732.3	1398.8	1295.5	1248.3	1251.2	1242.4	1224.7	1230.6
52.5°	13834.5	10656.2	3921.9	1732.3	1384.0	1260.1	1215.8	1218.8	1201.1	1177.5	1180.4
55°	14342.1	10854.0	3860.0	1729.3	1378.1	1230.6	1183.4	1186.3	1168.6	1139.1	1142.1
57.5°	14486.7	10662.1	3600.3	1696.9	1372.2	1207.0	1150.9	1156.8	1145.0	1112.5	1112.5
60°	14082.4	9959.8	3125.2	1623.1	1357.5	1192.2	1127.3	1136.2	1130.3	1097.8	1097.8
62.5°	13023.0	8711.5	2558.6	1510.9	1316.2	1174.5	1106.6	1124.3	1139.1	1121.4	1118.4
65°	11039.9	6979.2	2080.5	1387.0	1263.0	1145.0	1077.1	1121.4	1153.9	1177.5	1177.5
67.5°	8283.6	4996.1	1696.9	1257.1	1183.4	1086.0	1038.8	1080.1	1103.7	1118.4	1127.3
70°	5049.2	2939.2	1336.8	1106.6	1068.3	997.5	962.0	920.7	888.3	882.4	885.3
72.5°	2470.0	1682.1	1086.0	941.4	911.9	847.0	767.3	749.6	734.8	726.0	723.0
75°	1360.4	1171.6	897.1	782.0	728.9	649.2	631.5	602.0	596.1	584.3	587.3
77.5°	962.0	923.7	740.7	634.5	554.8	513.5	522.3	501.7	501.7	492.8	489.9
80°	723.0	726.0	569.6	463.3	410.2	395.4	404.3	404.3	398.4	395.4	392.5
82.5°	457.4	516.4	383.6	298.1	292.2	295.1	292.2	289.2	295.1	286.3	283.3
85°	315.8	371.8	233.1	177.1	177.1	174.1	180.0	177.1	183.0	174.1	174.1
87.5°	70.8	165.3	85.6	53.1	56.1	53.1	56.1	59.0	64.9	67.9	67.9
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)