

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: P642243

Luminaire Tested: GWS-SA6C-740-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642243  
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-SA6C-740-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

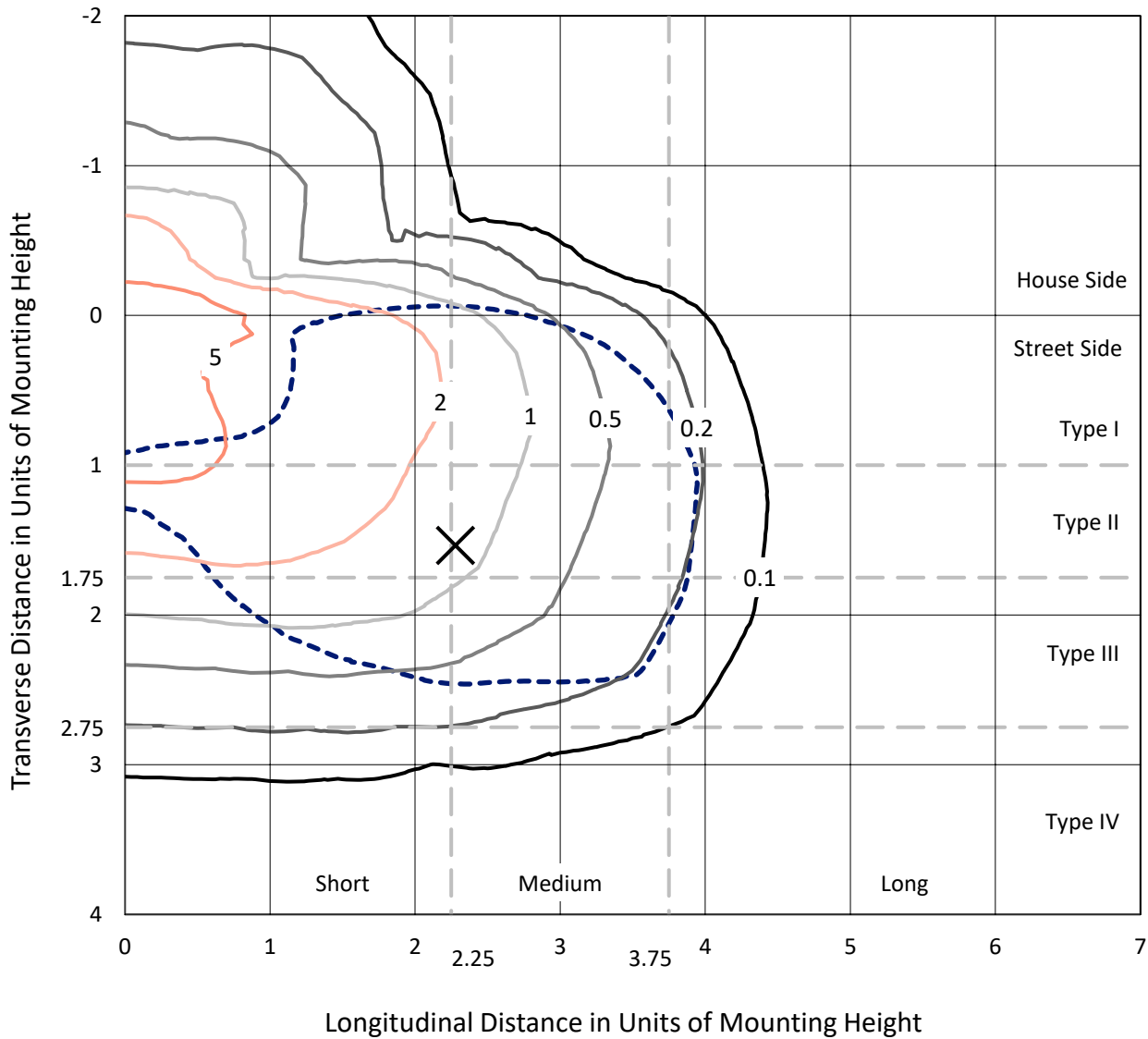
Lumens per Lamp: N/A  
Luminaire Lumens: 28865.9 lumens  
Efficiency: N/A  
Efficacy: 152.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): 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

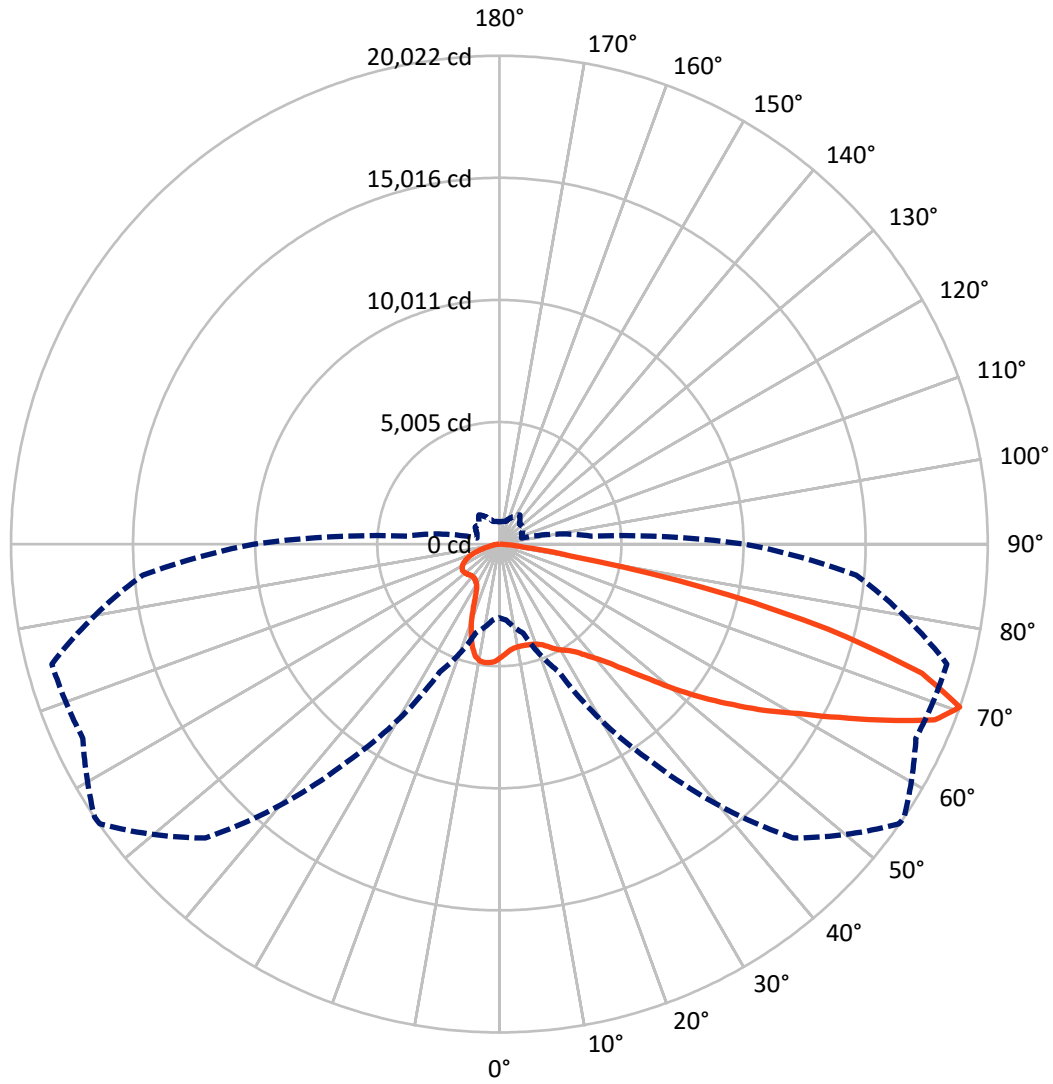
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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
<b>House Side</b>	Lumens	5549.5	0.0	5549.5
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	23316.4	0.0	23316.4
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	28865.9	0.0	28865.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	431.2	1.5
10°-20°	1168.3	4.0
20°-30°	1931.5	6.7
30°-40°	2887.9	10.0
40°-50°	4297.5	14.9
50°-60°	6109.8	21.2
60°-70°	7567.2	26.2
70°-80°	4178.4	14.5
80°-90°	294.3	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°	28865.9	100.0
0°-180°	28865.9	100.0

**Coefficient of Utilization**



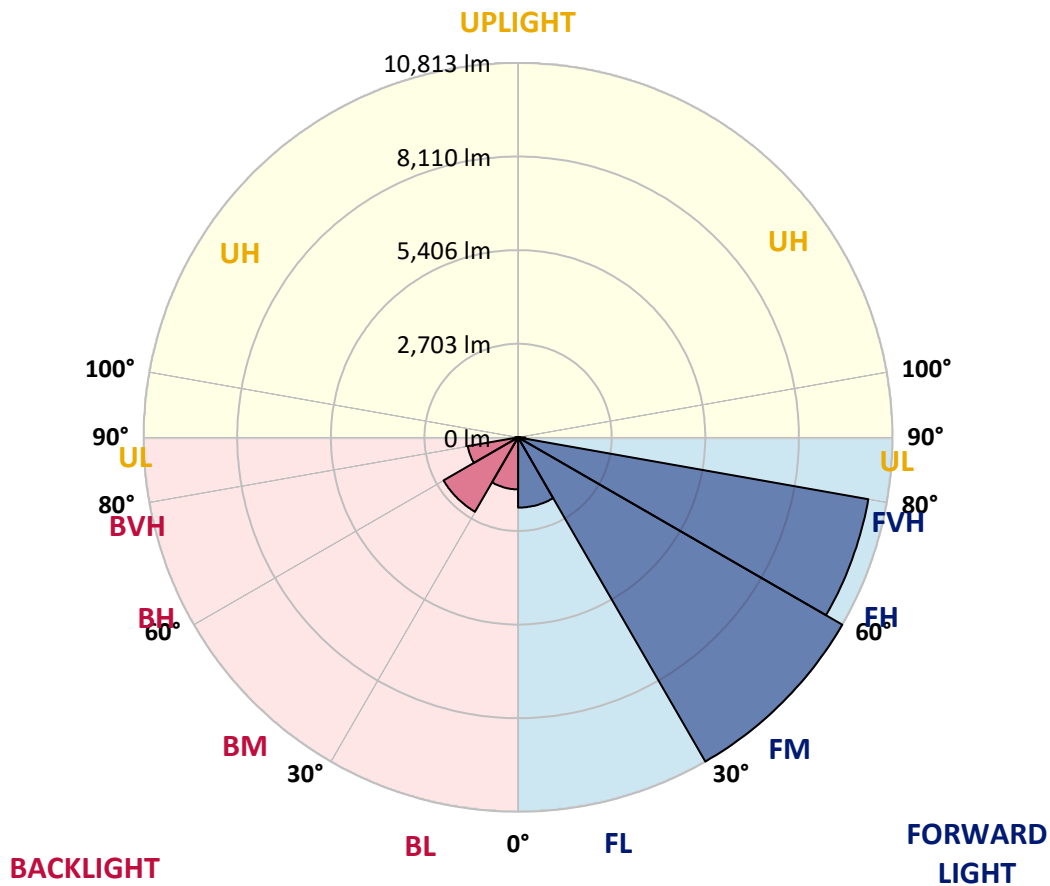
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2028.7	7.0			
FM (30°-60°)	10812.7	37.5			
FH (60°-80°)	10270.5	35.6			G4/12000
FVH (80°-90°)	204.5	0.7			G2/225
BL (0°-30°)	1502.3	5.2	B3/2500		
BM (30°-60°)	2482.4	8.6	B2/2500		
BH (60°-80°)	1475.0	5.1	B3/2500		G3/2500
BVH (80°-90°)	89.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4
2.5°	4360.2	4335.7	4364.2	4378.5	4415.1	4468.1	4514.9	4516.9	4541.3	4600.4	4657.4
5°	4162.7	4150.5	4158.7	4201.4	4240.1	4307.2	4378.5	4384.6	4453.8	4569.8	4683.8
7.5°	4010.1	3993.8	4024.3	4079.3	4128.1	4203.4	4297.1	4305.2	4402.9	4578.0	4753.0
10°	3790.2	3778.0	3835.0	3908.3	4014.1	4138.3	4262.5	4272.6	4400.9	4630.9	4875.2
12.5°	3694.5	3694.5	3719.0	3788.2	3904.2	4069.1	4256.4	4272.6	4433.5	4712.3	5031.9
15°	3843.1	3853.3	3833.0	3828.9	3875.7	4032.4	4264.5	4288.9	4494.5	4795.8	5186.6
17.5°	4142.4	4152.5	4099.6	4016.2	3969.3	4067.1	4295.0	4321.5	4559.7	4887.4	5353.5
20°	4561.7	4573.9	4457.9	4329.6	4168.8	4166.8	4354.1	4378.5	4643.1	4987.1	5530.6
22.5°	5052.3	5060.4	4913.8	4710.3	4464.0	4352.0	4455.8	4480.3	4751.0	5125.5	5722.0
25°	5620.2	5644.6	5467.5	5172.4	4838.5	4606.5	4624.8	4653.3	4944.4	5310.8	5947.9
27.5°	6226.8	6257.3	6053.8	5728.1	5268.0	4887.4	4842.6	4867.0	5150.0	5424.8	6068.0
30°	6847.6	6870.0	6666.5	6294.0	5730.1	5204.9	5025.8	5040.1	5239.5	5479.7	6190.1
32.5°	7537.7	7519.4	7324.0	6894.4	6263.4	5585.6	5196.8	5192.7	5339.3	5589.7	6365.2
35°	8185.0	8211.5	8003.8	7529.5	6849.7	6055.8	5453.3	5437.0	5551.0	5768.8	6611.5
37.5°	8968.7	8960.5	8712.2	8199.2	7437.9	6505.7	5813.6	5785.1	5825.8	6047.7	6955.5
40°	9528.5	9585.5	9424.6	8946.3	8126.0	7059.3	6234.9	6171.8	6182.0	6391.7	7415.6
42.5°	9986.5	10039.4	10055.7	9750.3	8913.7	7743.3	6760.1	6697.0	6703.1	7000.3	7981.4
45°	10338.6	10409.9	10639.9	10550.3	9801.2	8533.1	7470.5	7405.4	7409.4	7739.2	8665.4
47.5°	10483.1	10560.5	11026.6	11240.4	10743.7	9477.6	8353.9	8258.3	8272.5	8636.9	9447.0
50°	10436.3	10540.1	11171.2	11771.7	11533.5	10438.4	9410.4	9343.2	9288.3	9817.5	10295.9
52.5°	10033.3	10147.3	11156.9	12109.6	12178.8	11346.2	10501.5	10462.8	10450.6	11071.4	11244.4
55°	8846.6	9037.9	10666.3	12199.1	12683.6	12201.2	11684.1	11619.0	11682.1	12414.9	12203.2
57.5°	8189.1	8331.6	9705.6	12099.4	13096.8	13015.4	12864.7	12870.9	12942.1	13874.4	13365.5
60°	7814.5	7981.4	9172.2	11826.6	13493.7	14004.7	14100.3	14100.3	14228.6	15447.9	14546.1
62.5°	7317.8	7486.8	8673.5	11301.4	13860.1	15169.0	15653.5	15647.4	15698.3	17135.4	15700.3
65°	6310.2	6467.0	7672.0	10473.0	14039.3	16451.4	17418.3	17400.0	17298.2	18637.6	16463.6
67.5°	4582.0	4730.6	5876.7	8897.4	13394.0	17485.5	19236.1	19244.2	18635.6	19584.1	16504.3
70°	3020.8	3122.6	3778.0	5779.0	10892.3	17039.7	19997.4	20021.8	18841.2	18993.8	14688.6
72.5°	1884.9	1956.2	2359.2	3446.2	6436.4	13487.6	18043.2	18110.4	16950.1	16691.6	12068.8
75°	1251.9	1300.7	1569.4	2009.1	2978.0	7299.5	13715.6	13931.4	13585.3	13084.6	8408.9
77.5°	753.2	793.9	999.5	1276.3	1319.0	2851.8	8005.9	8563.6	8612.5	6831.3	3521.5
80°	344.0	390.8	551.6	728.7	702.3	993.4	2823.3	2953.6	3484.9	2169.9	1111.4
82.5°	203.6	223.9	366.4	362.3	299.2	482.4	1015.7	1042.2	885.5	793.9	474.3
85°	81.4	95.7	154.7	136.4	109.9	156.7	382.7	401.0	384.7	346.0	175.1
87.5°	0.0	0.0	0.0	0.0	2.0	4.1	34.6	36.6	52.9	95.7	52.9
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°	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4
2.5°	4694.0	4681.8	4742.9	4789.7	4810.0	4830.4	4812.1	4806.0	4806.0	4765.2	4744.9
5°	4744.9	4751.0	4834.5	4873.1	4873.1	4856.8	4808.0	4773.4	4761.2	4708.3	4694.0
7.5°	4840.6	4867.0	4944.4	4942.3	4885.3	4795.8	4673.6	4580.0	4494.5	4457.9	4435.5
10°	4997.3	5031.9	5084.8	4999.3	4840.6	4604.4	4345.9	4142.4	4020.2	3922.5	3922.5
12.5°	5176.4	5209.0	5198.8	5001.4	4673.6	4231.9	3859.4	3625.3	3454.3	3364.8	3364.8
15°	5355.6	5382.0	5272.1	4907.7	4325.6	3737.3	3330.2	3049.3	2900.7	2817.2	2817.2
17.5°	5536.7	5534.7	5302.6	4692.0	3871.6	3189.7	2790.8	2572.9	2522.1	2507.8	2505.8
20°	5711.8	5665.0	5264.0	4331.7	3344.4	2638.1	2385.7	2399.9	2475.2	2507.8	2511.9
22.5°	5909.2	5793.2	5150.0	3871.6	2746.0	2255.4	2271.7	2389.7	2499.7	2548.5	2554.6
25°	6110.8	5903.1	4958.6	3332.2	2245.2	2114.9	2241.2	2373.5	2497.6	2560.7	2566.8
27.5°	6192.2	5903.1	4632.9	2707.3	1978.6	2055.9	2194.3	2322.6	2452.9	2526.1	2540.4
30°	6259.4	5852.2	4177.0	2143.4	1868.6	1998.9	2119.0	2237.1	2365.3	2454.9	2471.2
32.5°	6353.0	5807.5	3625.3	1801.5	1817.8	1944.0	2027.4	2127.2	2243.2	2302.2	2296.1
35°	6462.9	5738.2	2959.7	1638.6	1775.0	1897.1	1956.2	2015.2	1962.3	1960.2	1966.4
37.5°	6619.6	5677.2	2379.6	1565.3	1746.5	1864.6	1913.4	1787.2	1713.9	1683.4	1671.2
40°	6845.6	5652.8	1876.8	1522.6	1742.4	1862.5	1827.9	1632.5	1532.8	1426.9	1424.9
42.5°	7130.6	5634.4	1551.1	1502.2	1756.7	1909.4	1709.9	1530.7	1325.2	1278.3	1274.3
45°	7497.0	5605.9	1388.3	1498.2	1791.3	1946.0	1697.7	1390.3	1249.8	1229.5	1229.5
47.5°	7938.7	5561.2	1315.0	1498.2	1830.0	1929.7	1661.0	1359.8	1215.2	1237.6	1251.9
50°	8445.5	5504.2	1276.3	1494.1	1868.6	1929.7	1583.7	1353.6	1207.1	1323.1	1369.9
52.5°	8987.0	5439.0	1249.8	1477.8	1895.1	1931.7	1587.7	1374.0	1215.2	1343.5	1382.1
55°	9585.5	5428.8	1213.2	1443.2	1903.2	1878.8	1597.9	1418.8	1227.4	1217.3	1219.3
57.5°	10340.7	5551.0	1186.7	1392.3	1870.7	1770.9	1618.3	1451.4	1213.2	1215.2	1229.5
60°	11130.5	5781.0	1209.1	1343.5	1803.5	1669.2	1632.5	1435.1	1144.0	1111.4	1115.5
62.5°	11802.2	5956.1	1227.4	1321.1	1705.8	1579.6	1618.3	1398.4	1105.3	1097.2	1115.5
65°	12083.1	5811.5	1182.7	1274.3	1563.3	1469.7	1587.7	1351.6	1072.7	1042.2	1044.2
67.5°	11771.7	5133.7	1095.1	1170.4	1402.5	1329.2	1538.9	1290.5	1028.0	991.3	983.2
70°	10055.7	3771.9	944.5	1005.6	1207.1	1164.3	1463.6	1211.2	956.7	930.3	911.9
72.5°	8103.6	2670.7	783.7	800.0	946.5	981.1	1333.3	1111.4	875.3	800.0	773.5
75°	5640.5	1677.3	653.4	637.1	683.9	749.1	1040.2	922.1	755.2	675.8	651.4
77.5°	2426.4	861.0	510.9	502.8	456.0	519.1	797.9	769.4	633.1	541.5	527.2
80°	812.2	498.7	368.4	354.2	303.3	364.4	561.8	614.7	496.7	401.0	376.6
82.5°	407.1	289.0	234.1	211.7	203.6	230.0	331.8	382.7	344.0	276.8	234.1
85°	199.5	164.9	128.2	126.2	105.8	99.7	138.4	162.8	154.7	114.0	107.9
87.5°	73.3	65.1	40.7	32.6	20.4	14.2	8.1	8.1	6.1	6.1	6.1
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)