

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: P639510

Luminaire Tested: GWS-SA5C-722-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639510  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-722-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17861.4 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

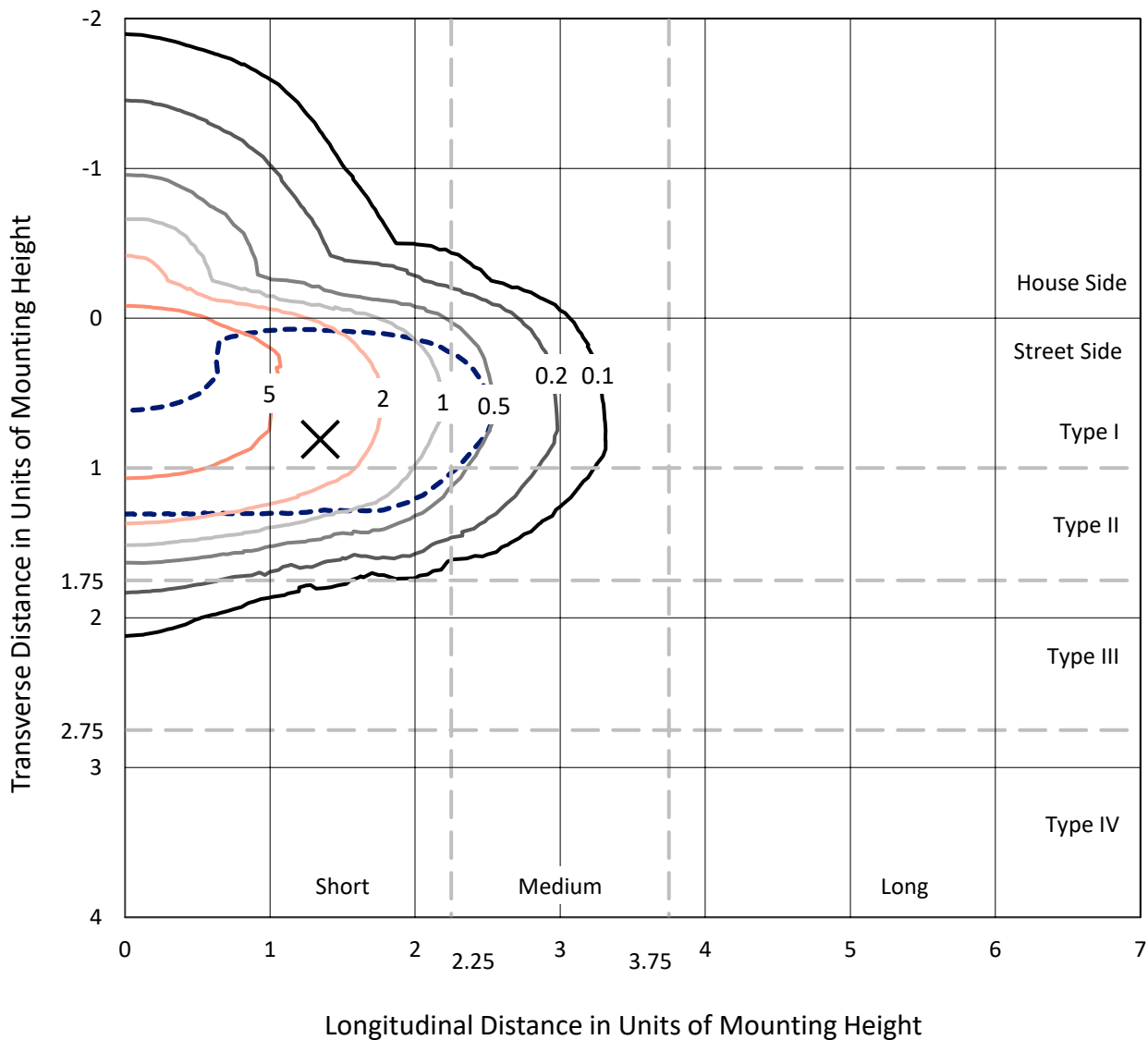
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

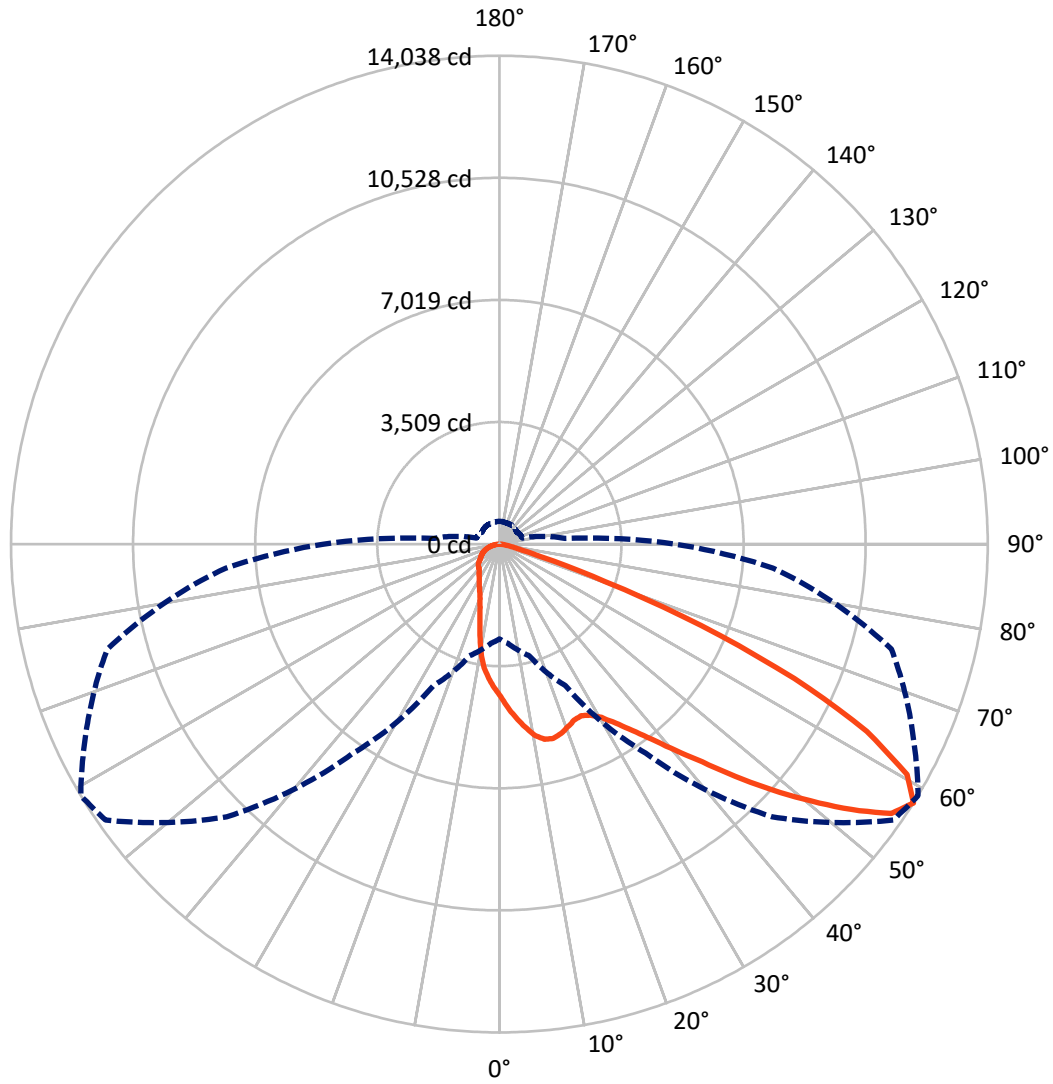
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2772.0	0.0	2772.0
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	15089.4	0.0	15089.4
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	17861.4	0.0	17861.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	407.1	2.3
10°-20°	1031.6	5.8
20°-30°	1672.3	9.4
30°-40°	2690.1	15.1
40°-50°	4177.5	23.4
50°-60°	4499.7	25.2
60°-70°	2611.5	14.6
70°-80°	681.7	3.8
80°-90°	89.8	0.5
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°	17861.4	100.0
0°-180°	17861.4	100.0

**Coefficient of Utilization**



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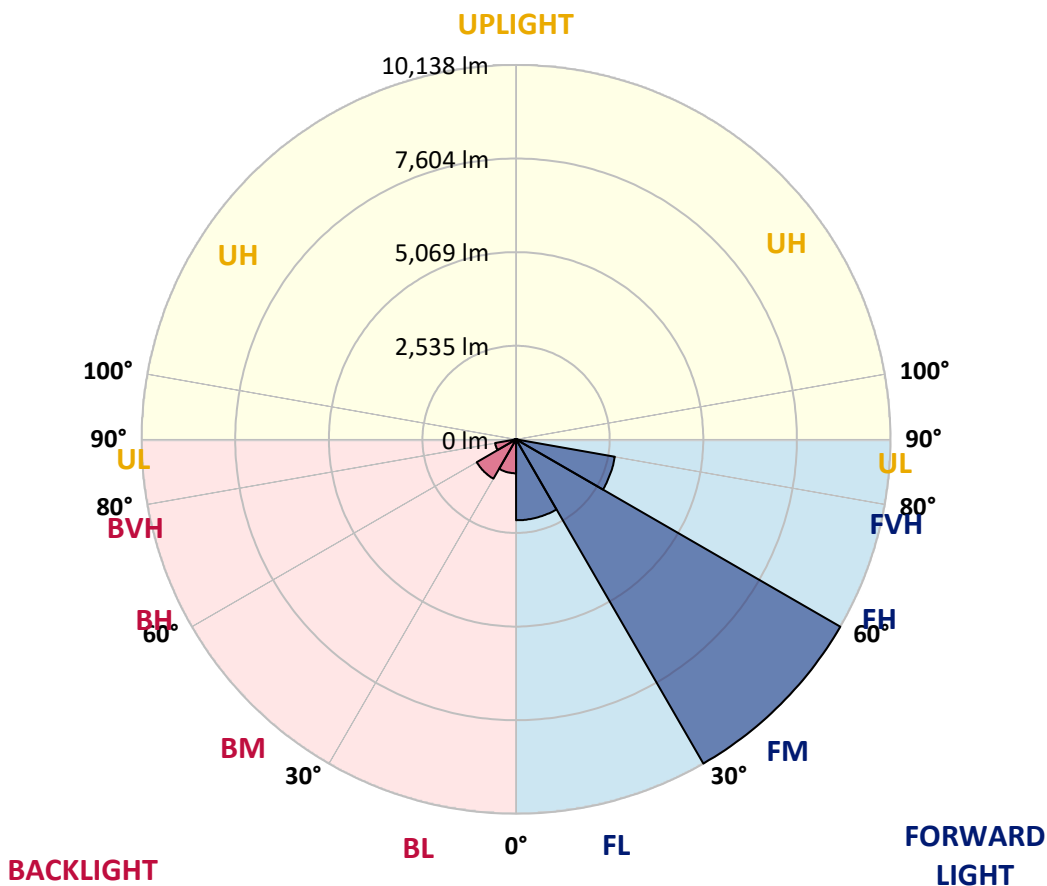
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2191.4	12.3			
FM (30°-60°)	10138.3	56.8			
FH (60°-80°)	2716.6	15.2			G2/5000
FVH (80°-90°)	43.0	0.2			G1/100
BL (0°-30°)	919.6	5.1	B2/1000		
BM (30°-60°)	1229.0	6.9	B2/2500		
BH (60°-80°)	576.6	3.2	B2/1000		G2/1000
BVH (80°-90°)	46.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6
2.5°	4973.1	4931.6	4960.5	4909.0	4887.6	4831.0	4758.1	4709.0	4633.6	4535.5	4450.0
5°	5467.3	5438.3	5444.6	5389.3	5340.3	5245.9	5096.3	5013.3	4885.1	4687.7	4504.1
7.5°	5452.2	5486.1	5505.0	5552.8	5566.6	5557.8	5423.2	5307.6	5166.7	4870.0	4593.3
10°	4887.6	4951.7	5009.6	5173.0	5371.7	5623.2	5654.6	5585.5	5443.4	5102.6	4700.2
12.5°	4272.7	4321.7	4373.3	4569.5	4873.8	5376.7	5717.5	5760.2	5703.6	5332.7	4820.9
15°	3970.9	3993.6	4042.6	4172.1	4414.8	4973.1	5608.1	5795.4	5897.3	5576.6	4956.7
17.5°	3958.4	3968.4	3992.3	4061.5	4230.0	4661.2	5410.7	5725.0	6049.4	5834.4	5115.2
20°	4218.6	4192.2	4177.1	4175.9	4258.9	4556.9	5219.5	5611.9	6121.1	6098.5	5284.9
22.5°	4579.5	4588.3	4555.6	4475.2	4465.1	4631.1	5124.0	5497.4	6142.5	6332.4	5442.1
25°	5091.3	5135.3	5038.5	4885.1	4809.6	4846.1	5183.1	5462.2	6140.0	6527.3	5540.2
27.5°	5688.6	5722.5	5624.4	5423.2	5267.3	5179.3	5359.1	5566.6	6161.3	6695.8	5599.3
30°	6368.8	6380.1	6245.6	6034.3	5806.8	5618.1	5652.1	5781.6	6270.7	6917.1	5668.4
32.5°	7200.0	7247.8	7044.1	6709.6	6391.5	6150.0	6045.7	6128.7	6507.1	7178.6	5775.3
35°	8254.9	8271.3	8012.3	7533.2	7083.0	6748.6	6529.8	6573.8	6866.8	7544.5	5936.3
37.5°	9249.6	9265.9	8990.5	8545.4	7901.6	7443.9	7127.0	7106.9	7327.0	8061.3	6199.1
40°	9880.8	9927.3	9804.1	9524.9	8910.1	8292.7	7862.6	7793.5	7930.5	8693.8	6565.0
42.5°	10220.3	10240.4	10237.9	10274.4	9908.5	9294.8	8692.5	8554.2	8646.0	9376.6	6934.7
45°	10222.8	10273.1	10407.6	10758.5	10774.8	10392.6	9741.2	9524.9	9440.7	10064.4	7320.7
47.5°	9765.1	9819.2	10188.9	10879.2	11388.4	11475.2	10997.4	10563.6	10209.0	10656.6	7637.6
50°	8379.4	8515.2	9219.4	10440.3	11509.1	12342.8	12195.7	11607.2	10891.8	11114.3	7836.2
52.5°	7176.1	7171.1	7604.9	9200.5	11004.9	12725.1	13355.0	12681.1	11567.0	11404.8	7886.5
55°	5254.7	5283.7	5727.5	7036.5	9659.5	12355.4	13992.5	13669.4	12341.6	11559.4	7866.4
57.5°	2724.8	2868.2	3323.4	4490.2	7339.5	11082.9	13822.8	14037.8	13128.7	11668.8	7892.8
60°	1376.9	1349.2	1512.7	2143.9	4252.6	8656.1	12776.6	13461.9	13270.8	11754.3	7909.2
62.5°	919.2	911.6	866.4	993.4	1737.8	5126.5	10891.8	11852.4	12283.7	11553.2	7700.4
65°	795.9	780.9	697.9	692.8	843.7	2126.3	7983.3	9317.5	10152.4	10659.1	7201.2
67.5°	716.7	694.1	609.8	568.4	606.1	934.3	4499.0	6249.4	7496.7	9014.4	6107.3
70°	640.0	628.7	544.5	484.1	480.3	569.6	1657.3	3225.3	4587.1	6150.0	4465.1
72.5°	573.4	553.3	481.6	423.7	394.8	403.6	719.2	1242.3	2374.0	3836.4	2670.8
75°	496.7	481.6	418.7	360.9	325.7	295.5	438.8	574.6	1082.6	1823.3	1261.2
77.5°	383.5	373.5	330.7	286.7	266.6	220.0	266.6	362.1	500.5	768.3	656.4
80°	222.6	228.9	246.5	223.8	196.2	157.2	173.5	208.7	300.5	416.2	372.2
82.5°	111.9	119.5	159.7	129.5	116.9	91.8	103.1	123.2	157.2	230.1	145.9
85°	8.8	8.8	28.9	32.7	40.2	32.7	41.5	50.3	71.7	91.8	49.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.8	6.3	11.3	21.4	13.8
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°	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6
2.5°	4392.2	4328.0	4251.3	4188.5	4091.6	4040.1	3974.7	3894.2	3861.5	3846.4	3837.6
5°	4401.0	4287.8	4124.3	3973.4	3806.2	3674.2	3527.1	3373.7	3285.6	3264.3	3249.2
7.5°	4433.7	4275.2	4014.9	3766.0	3455.4	3167.4	2887.0	2609.1	2467.1	2413.0	2408.0
10°	4478.9	4270.2	3904.3	3490.6	2966.2	2511.1	2182.9	1965.3	1873.6	1843.4	1833.3
12.5°	4535.5	4266.4	3758.4	3108.3	2401.7	1971.6	1784.3	1749.1	1761.6	1759.1	1759.1
15°	4607.2	4271.4	3582.4	2675.8	1942.7	1711.3	1715.1	1756.6	1795.6	1801.9	1801.9
17.5°	4685.1	4266.4	3327.1	2242.0	1667.3	1649.7	1707.6	1765.4	1800.6	1805.7	1805.7
20°	4769.4	4242.5	3005.2	1833.3	1546.6	1610.8	1673.6	1718.9	1740.3	1745.3	1745.3
22.5°	4819.7	4174.6	2655.7	1551.7	1469.9	1549.1	1590.6	1637.2	1639.7	1599.4	1598.2
25°	4812.1	4047.6	2257.1	1370.6	1388.2	1457.3	1510.2	1477.5	1437.2	1414.6	1410.8
27.5°	4764.4	3856.5	1850.9	1233.5	1291.4	1369.3	1353.0	1325.3	1315.3	1290.1	1287.6
30°	4704.0	3621.4	1486.3	1126.6	1190.8	1262.4	1237.3	1234.8	1224.7	1197.1	1197.1
32.5°	4646.2	3378.7	1210.9	1047.4	1126.6	1131.7	1166.9	1169.4	1164.4	1116.6	1111.6
35°	4629.8	3136.0	1024.8	984.6	1063.8	1061.3	1111.6	1110.3	1023.5	956.9	955.6
37.5°	4678.9	2889.5	914.1	933.0	977.0	1009.7	1049.9	977.0	948.1	907.9	905.3
40°	4783.2	2662.0	857.6	902.8	921.7	969.5	906.6	911.6	904.1	873.9	870.1
42.5°	4921.5	2468.3	826.1	892.8	890.3	902.8	833.7	853.8	865.1	842.5	838.7
45°	5054.8	2299.8	809.8	855.0	867.6	794.7	780.9	799.7	817.3	808.5	804.7
47.5°	5152.9	2154.0	801.0	803.5	838.7	758.2	735.6	744.4	765.8	769.5	768.3
50°	5183.1	2029.5	790.9	760.7	753.2	721.8	704.2	701.6	726.8	744.4	746.9
52.5°	5125.2	1918.8	764.5	723.0	686.6	691.6	685.3	672.7	697.9	721.8	724.3
55°	5039.7	1855.9	723.0	686.6	643.8	663.9	666.4	655.1	671.5	687.8	687.8
57.5°	5046.0	1892.4	682.8	652.6	606.1	632.5	646.3	641.3	641.3	653.9	655.1
60°	5087.5	1945.2	656.4	609.8	568.4	596.0	627.5	622.4	611.1	627.5	627.5
62.5°	4968.1	1874.8	638.8	568.4	528.1	560.8	598.5	596.0	583.4	609.8	612.4
65°	4616.0	1686.2	618.6	516.8	487.9	525.6	558.3	567.1	555.8	591.0	597.3
67.5°	3869.1	1418.4	579.7	467.8	447.6	482.8	514.3	526.9	518.1	559.6	564.6
70°	2884.5	1148.0	518.1	413.7	398.6	430.0	459.0	464.0	465.2	514.3	519.3
72.5°	1839.6	892.8	436.3	353.3	342.0	365.9	387.3	407.4	416.2	462.7	461.5
75°	1026.1	663.9	350.8	299.3	279.1	298.0	323.2	347.0	372.2	440.1	447.6
77.5°	591.0	466.5	277.9	240.2	216.3	236.4	257.8	291.7	367.2	426.3	418.7
80°	333.2	303.0	210.0	176.0	160.9	176.0	192.4	256.5	289.2	314.4	318.1
82.5°	155.9	169.8	143.3	108.1	108.1	118.2	133.3	198.7	218.8	178.6	155.9
85°	56.6	76.7	70.4	55.3	49.0	47.8	83.0	113.2	70.4	62.9	54.1
87.5°	15.1	21.4	20.1	13.8	7.5	6.3	0.0	0.0	0.0	0.0	0.0
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)