

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: P641278

Luminaire Tested: GWS-SA5F-750-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641278  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-750-U-SL3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

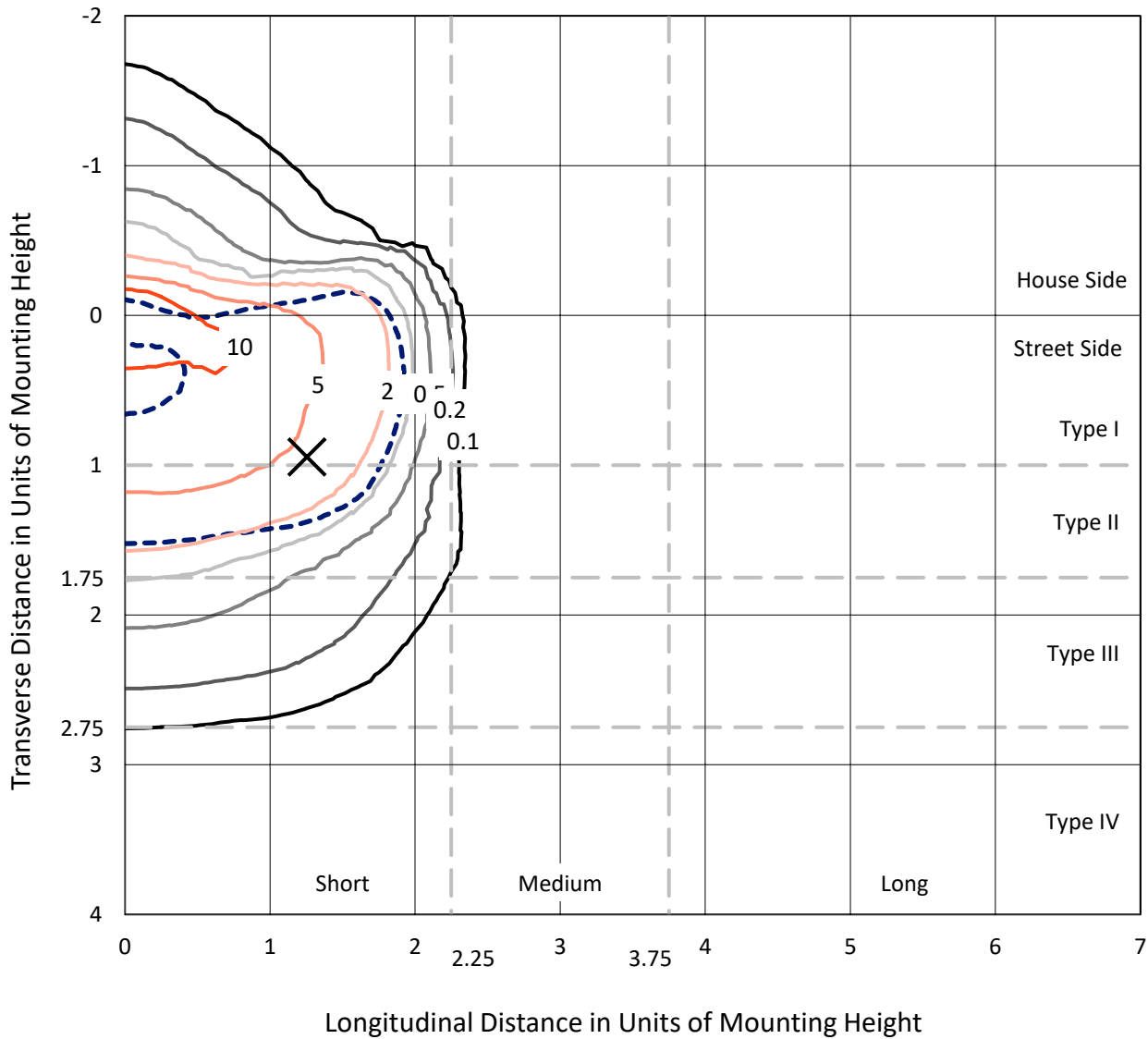
Lumens per Lamp: N/A  
Luminaire Lumens: 24972 lumens  
Efficiency: N/A  
Efficacy: 80.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

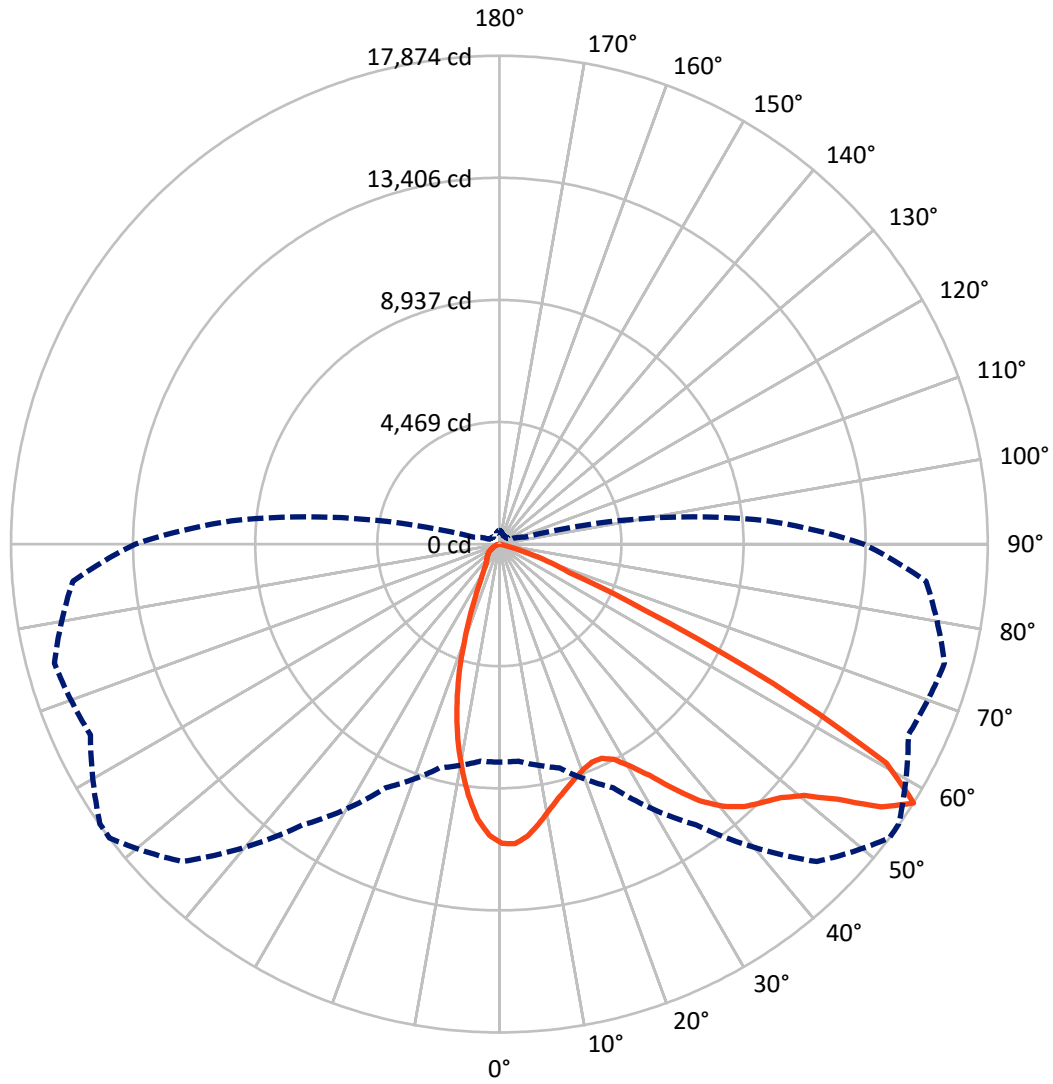
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4125.0	0.0	4125.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	20847.0	0.0	20847.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	24972.0	0.0	24972.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	937.2	3.8
10°-20°	2057.5	8.2
20°-30°	2680.4	10.7
30°-40°	3888.0	15.6
40°-50°	5610.1	22.5
50°-60°	6784.9	27.2
60°-70°	2765.3	11.1
70°-80°	248.5	1.0
80°-90°	0.0	0.0
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°	24972.0	100.0
0°-180°	24972.0	100.0

**Coefficient of Utilization**



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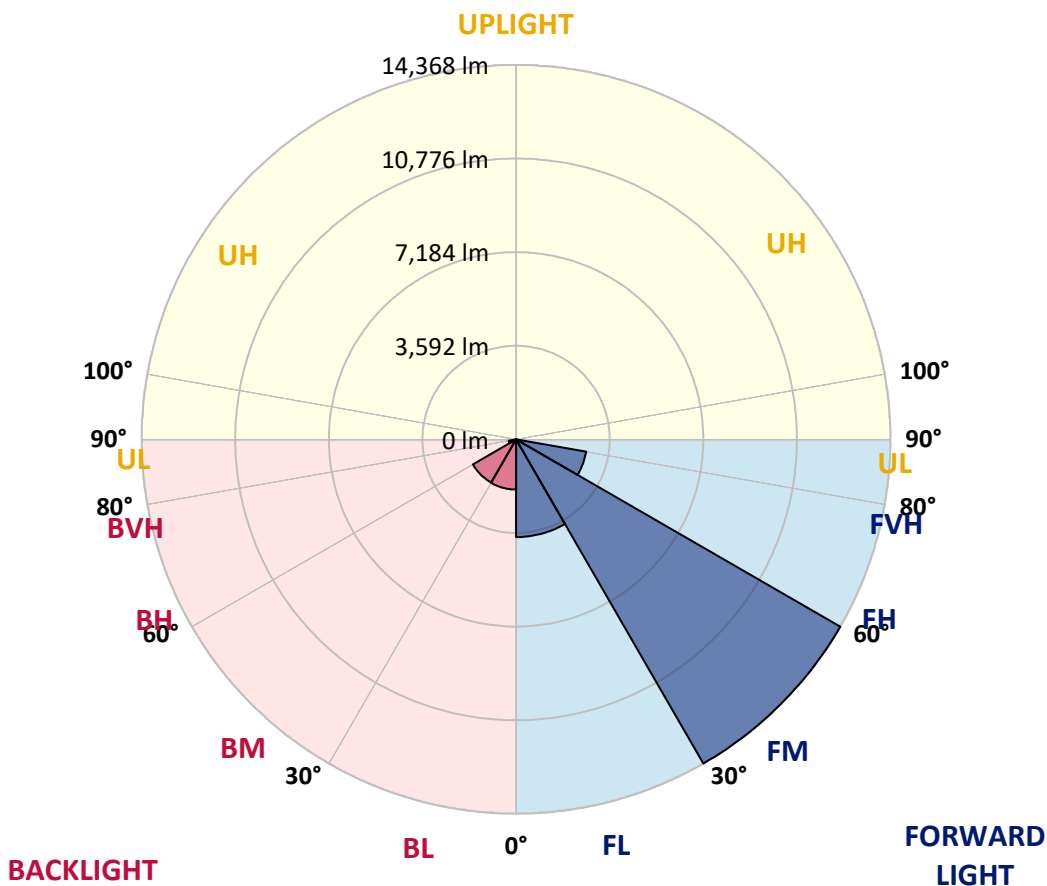
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3750.0	15.0			
FM (30°-60°)	14368.4	57.5			
FH (60°-80°)	2728.6	10.9			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1925.2	7.7	B3/2500		
BM (30°-60°)	1914.6	7.7	B2/2500		
BH (60°-80°)	285.2	1.1	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10954.1	10954.1	10954.1	10954.1	10954.1	10954.1	10954.1	10954.1	10954.1	10954.1	10954.1
2.5°	10801.1	10825.6	10868.4	10923.5	10960.3	10978.6	10978.6	11030.7	10997.0	10969.4	10938.8
5°	10338.9	10363.4	10421.6	10510.3	10599.1	10663.4	10736.8	10791.9	10813.4	10813.4	10761.3
7.5°	9687.0	9720.7	9757.4	9879.8	10072.7	10216.5	10342.0	10421.6	10537.9	10574.6	10501.2
10°	8986.1	9019.8	9102.4	9270.8	9491.1	9705.4	9919.6	10020.6	10219.6	10323.6	10241.0
12.5°	8392.4	8407.7	8517.8	8719.9	9001.4	9295.3	9555.4	9659.5	9941.1	10097.2	9999.2
15°	7902.7	7911.8	8022.0	8245.4	8569.9	8931.0	9258.5	9365.7	9711.5	9947.2	9800.3
17.5°	7532.3	7535.4	7630.3	7872.0	8211.8	8612.7	9001.4	9133.0	9579.9	9864.5	9644.2
20°	7345.6	7336.4	7403.8	7615.0	7936.3	8337.3	8796.4	8958.6	9506.4	9852.3	9524.8
22.5°	7348.7	7327.2	7354.8	7504.8	7777.2	8153.6	8667.8	8851.5	9512.6	9904.3	9423.8
25°	7523.1	7492.5	7498.6	7578.2	7771.0	8113.8	8686.2	8882.1	9635.0	10078.8	9387.1
27.5°	7817.0	7783.3	7783.3	7823.1	7927.1	8239.3	8915.7	9139.2	9962.5	10418.5	9463.6
30°	8196.5	8162.8	8150.6	8190.4	8276.1	8563.8	9426.9	9659.5	10522.6	10975.6	9708.4
32.5°	8631.1	8591.3	8612.7	8667.8	8750.5	9148.3	10084.9	10394.0	11223.5	11725.4	10149.2
35°	9090.2	9056.5	9154.5	9273.8	9402.4	9959.4	10993.9	11263.3	12083.5	12658.9	10822.5
37.5°	9527.9	9512.6	9717.6	9968.6	10234.9	10932.7	11918.3	12126.4	12821.2	13675.1	11645.9
40°	9965.5	9962.5	10314.5	10755.2	11180.6	11903.0	12619.1	12790.5	13271.1	14464.7	12435.5
42.5°	10455.3	10455.3	10941.9	11529.5	12095.8	12723.2	13133.3	13209.9	13473.1	14920.8	13029.3
45°	10923.5	10951.1	11514.2	12196.8	12867.1	13362.9	13488.4	13494.5	13555.7	15190.1	13522.0
47.5°	11293.9	11318.4	11991.7	12778.3	13500.6	13849.5	13867.9	13840.4	13773.0	15447.2	13901.6
50°	11593.8	11630.6	12334.5	13167.0	13935.2	14317.8	14458.6	14431.1	14259.7	15722.7	14167.8
52.5°	11740.7	11792.8	12453.9	13359.8	14418.8	15119.7	15511.5	15575.8	14988.1	15875.7	14421.9
55°	10565.4	10642.0	11251.0	12490.6	14688.2	16359.3	16974.5	16962.2	15777.8	16331.7	15040.1
57.5°	7979.2	7973.0	8478.1	9833.9	12545.7	16429.7	17874.3	17849.8	16515.4	16861.2	15673.7
60°	5432.7	5396.0	5530.6	6185.6	8771.9	13384.3	16267.5	16598.0	15992.0	15575.8	13307.8
62.5°	4471.6	4438.0	4395.1	4214.5	5037.9	8337.3	11238.8	11740.7	11661.2	10825.6	8346.5
65°	3660.6	3688.1	3807.5	3731.0	3504.5	4275.8	5833.6	6130.5	5604.1	4716.5	2916.8
67.5°	2699.5	2711.8	2867.8	3271.9	3149.4	2846.4	2745.4	2794.4	1637.5	752.9	486.6
70°	1594.6	1603.8	1747.6	2289.4	2555.7	2185.3	1854.8	1827.2	648.9	202.0	220.4
72.5°	902.9	884.5	912.1	1089.6	1392.6	1160.0	954.9	869.2	195.9	113.2	113.2
75°	428.5	416.3	358.1	336.7	306.1	195.9	122.4	104.1	49.0	45.9	45.9
77.5°	3.1	9.2	6.1	9.2	9.2	6.1	3.1	3.1	9.2	9.2	12.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10954.1	10954.1	10954.1	10954.1	10954.1	10954.1	10954.1	10954.1	10954.1	10954.1	10954.1
2.5°	10883.7	10791.9	10770.5	10764.4	10678.7	10586.9	10492.0	10455.3	10400.2	10366.5	10394.0
5°	10678.7	10547.1	10430.8	10323.6	10133.9	9925.8	9745.2	9628.9	9518.7	9445.2	9463.6
7.5°	10387.9	10216.5	9950.2	9677.8	9328.9	9016.7	8667.8	8453.6	8254.6	8144.4	8196.5
10°	10078.8	9852.3	9426.9	8964.7	8416.8	7927.1	7428.2	7021.2	6785.5	6562.1	6586.6
12.5°	9775.8	9475.8	8839.2	8138.3	7446.6	6724.3	5971.4	5408.2	5022.6	4744.0	4701.2
15°	9494.2	9108.6	8266.9	7342.6	6399.9	5438.8	4477.8	3672.8	3225.9	2950.5	2932.1
17.5°	9243.2	8765.8	7673.1	6510.0	5328.6	4098.2	2993.3	2390.4	2133.3	2013.9	2001.7
20°	9001.4	8419.9	7067.1	5665.3	4159.5	2877.0	2066.0	1787.4	1704.8	1655.8	1661.9
22.5°	8768.8	8043.4	6430.5	4728.7	3118.8	2020.0	1600.7	1493.6	1484.4	1490.5	1493.6
25°	8572.9	7697.6	5775.5	3825.8	2225.1	1539.5	1337.5	1306.9	1334.5	1374.2	1380.4
27.5°	8471.9	7416.0	5135.8	2916.8	1609.9	1251.8	1160.0	1172.2	1221.2	1264.1	1270.2
30°	8499.5	7204.8	4474.7	2114.9	1239.6	1055.9	1025.3	1049.8	1098.8	1138.6	1144.7
32.5°	8695.4	7097.7	3798.3	1539.5	1019.2	921.3	909.0	927.4	970.2	1000.8	1003.9
35°	9084.1	7122.2	3155.6	1178.4	875.4	820.3	817.2	829.4	850.9	872.3	875.4
37.5°	9656.4	7321.1	2522.0	979.4	792.7	752.9	740.7	740.7	756.0	765.2	771.3
40°	10271.6	7621.1	2020.0	866.2	734.6	691.7	667.2	658.0	670.3	682.5	685.6
42.5°	10779.7	7921.0	1640.5	786.6	688.7	630.5	599.9	593.8	609.1	630.5	636.6
45°	11168.4	8153.6	1368.1	722.3	636.6	572.3	538.7	538.7	566.2	603.0	609.1
47.5°	11523.4	8340.3	1166.1	664.2	587.6	520.3	486.6	492.8	538.7	587.6	596.8
50°	11765.2	8490.3	1016.1	612.1	547.9	477.5	446.9	459.1	514.2	572.3	581.5
52.5°	12025.4	8673.9	918.2	566.2	511.1	443.8	416.3	425.4	486.6	550.9	563.2
55°	12744.6	9289.1	915.1	505.0	446.9	397.9	385.6	388.7	449.9	523.4	538.7
57.5°	13332.3	9830.9	976.4	425.4	373.4	348.9	342.8	345.9	400.9	483.6	502.0
60°	11030.7	7639.4	808.0	352.0	312.2	306.1	296.9	303.0	355.0	428.5	443.8
62.5°	6528.4	4367.6	385.6	269.3	266.3	260.2	251.0	263.2	312.2	376.5	385.6
65°	2231.2	1294.7	244.9	220.4	226.5	217.3	208.1	220.4	263.2	299.9	303.0
67.5°	428.5	342.8	195.9	183.6	186.7	168.3	165.3	177.5	202.0	208.1	205.1
70°	223.4	198.9	150.0	150.0	143.9	119.4	119.4	131.6	131.6	122.4	119.4
72.5°	116.3	110.2	97.9	110.2	91.8	73.5	73.5	79.6	73.5	61.2	61.2
75°	45.9	45.9	42.8	55.1	39.8	33.7	30.6	36.7	27.5	21.4	21.4
77.5°	12.2	12.2	12.2	15.3	9.2	9.2	6.1	6.1	3.1	0.0	0.0
80°	0.0	3.1	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)