

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: P643647

Luminaire Tested: GWS-SA6F-735-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643647  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGF-735-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

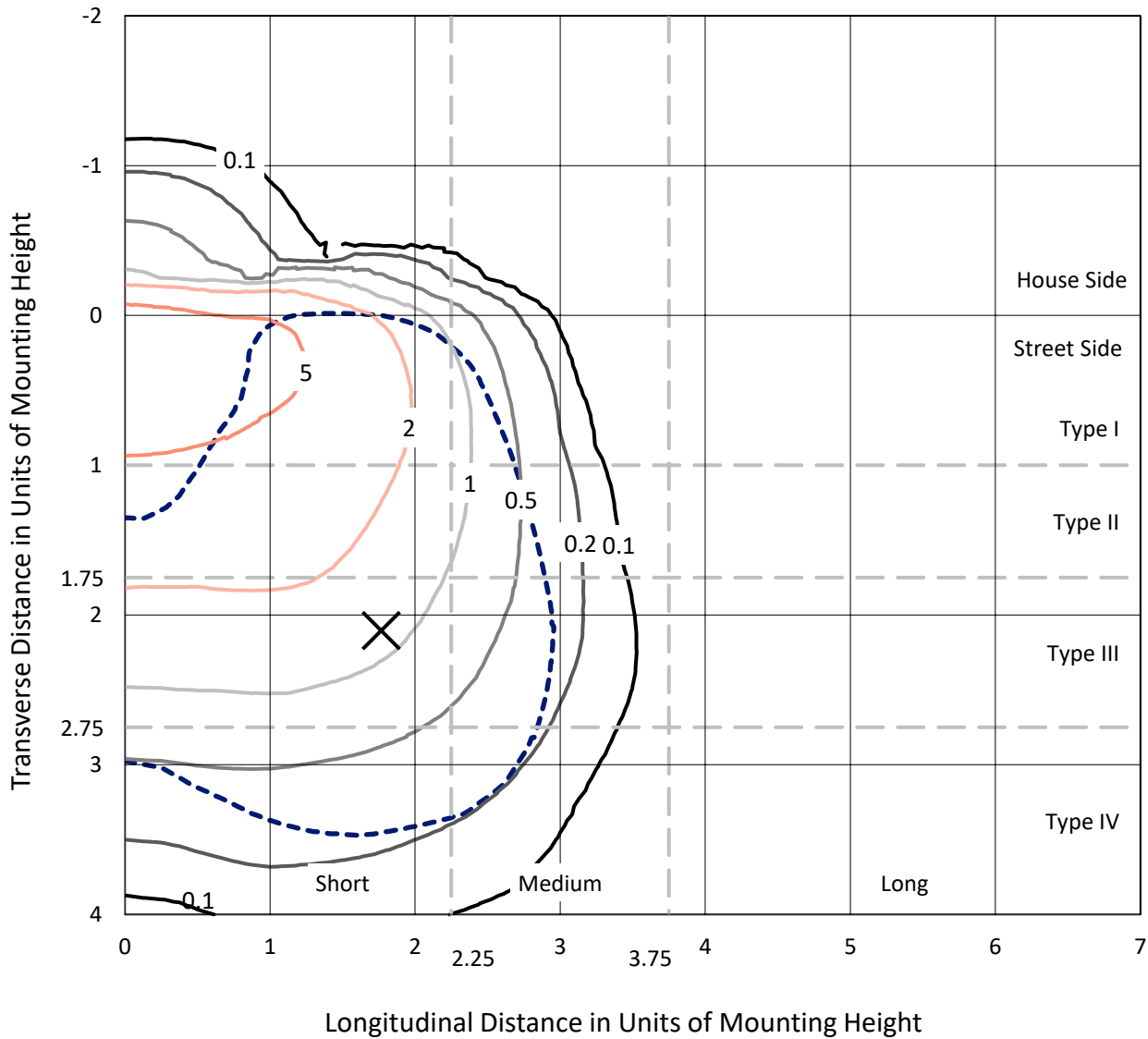
Lumens per Lamp: N/A  
Luminaire Lumens: 38677 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

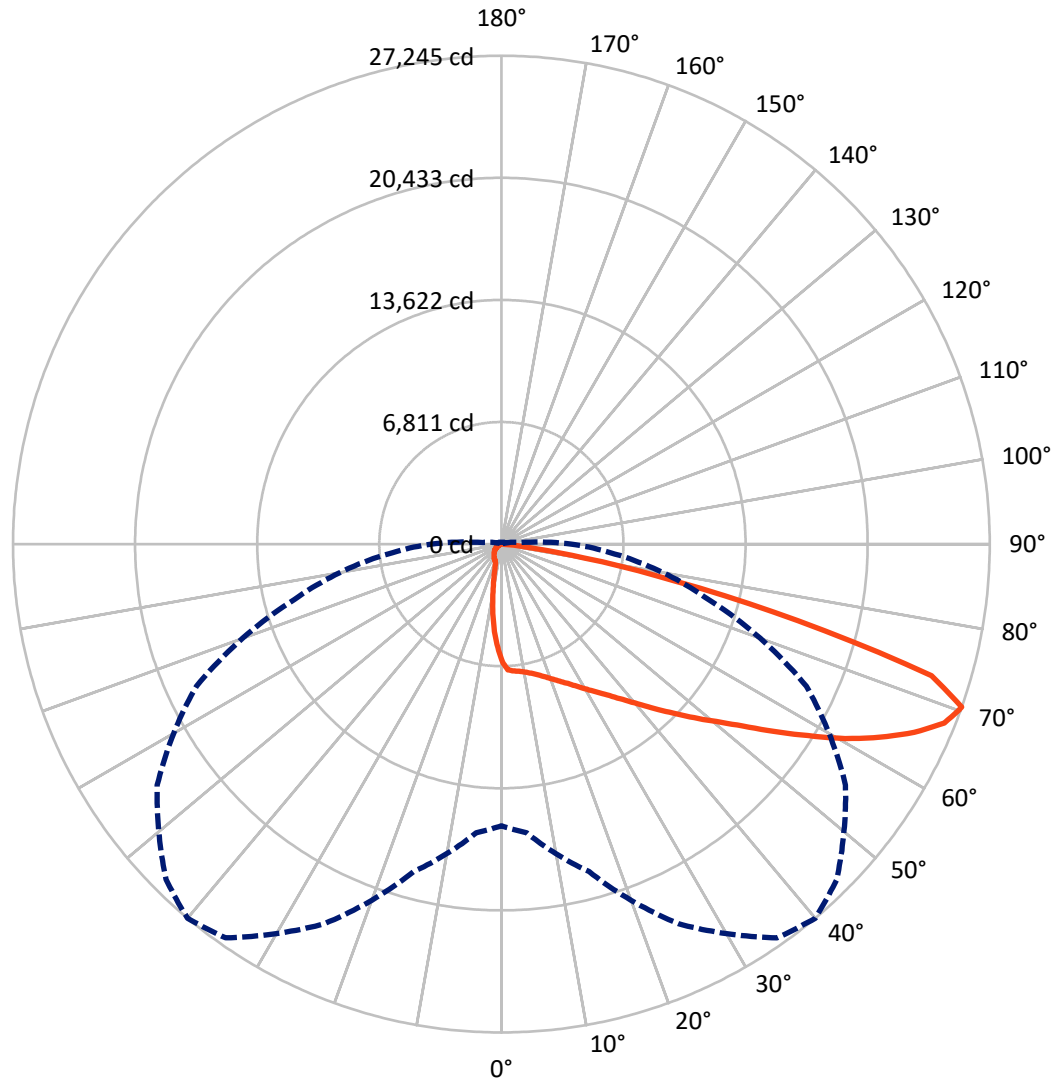
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 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	3162.8	0.0	3162.8
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	35514.2	0.0	35514.2
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	38677.0	0.0	38677.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	554.7	1.4
10°-20°	1406.9	3.6
20°-30°	2354.6	6.1
30°-40°	3698.2	9.6
40°-50°	5849.7	15.1
50°-60°	8533.3	22.1
60°-70°	10578.2	27.4
70°-80°	5352.0	13.8
80°-90°	349.4	0.9
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°	38677.0	100.0
0°-180°	38677.0	100.0

**Coefficient of Utilization**



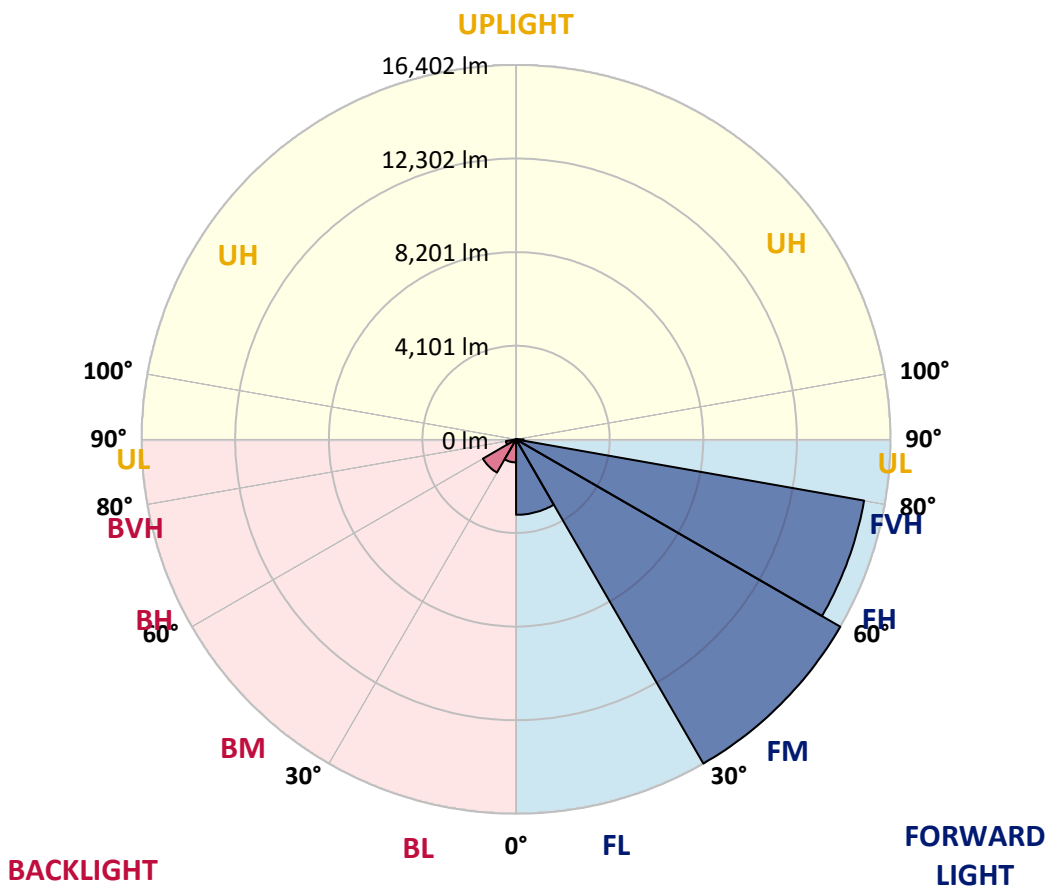
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3306.2	8.5			
FM (30°-60°)	16402.5	42.4			
FH (60°-80°)	15479.2	40.0			G5
FVH (80°-90°)	326.3	0.8			G3/500
BL (0°-30°)	1010.0	2.6	B3/2500		
BM (30°-60°)	1678.8	4.3	B2/2500		
BH (60°-80°)	450.9	1.2	B1/500		G1/500
BVH (80°-90°)	23.1	0.1			G1/100
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°	6563.0	6563.0	6563.0	6563.0	6563.0	6563.0	6563.0	6563.0	6563.0	6563.0	6563.0
2.5°	7055.7	7080.3	7076.8	7087.4	7062.7	7024.0	7017.0	6964.2	6869.2	6749.5	6615.8
5°	7200.0	7228.1	7207.0	7196.5	7150.7	7108.5	7097.9	7041.6	6932.5	6770.6	6538.4
7.5°	7323.1	7330.2	7316.1	7291.5	7224.6	7168.3	7129.6	7052.2	6922.0	6760.1	6492.6
10°	7344.3	7340.7	7347.8	7351.3	7309.1	7259.8	7228.1	7122.6	6957.2	6784.7	6496.2
12.5°	7319.6	7319.6	7365.4	7418.2	7418.2	7393.5	7361.8	7266.8	7073.3	6869.2	6566.5
15°	7351.3	7361.8	7449.8	7548.4	7580.0	7555.4	7541.3	7442.8	7242.2	7017.0	6693.2
17.5°	7463.9	7474.5	7615.2	7763.0	7801.7	7773.6	7745.4	7646.9	7432.2	7185.9	6837.5
20°	7629.3	7657.4	7836.9	8026.9	8062.1	8026.9	7970.6	7833.4	7618.7	7368.9	6974.8
22.5°	7931.9	7949.5	8143.1	8343.7	8361.3	8305.0	8220.5	8030.5	7805.2	7562.4	7129.6
25°	8333.1	8357.7	8551.3	8744.8	8699.1	8614.6	8498.5	8283.8	8026.9	7791.2	7326.7
27.5°	8811.7	8839.8	9029.9	9198.8	9079.1	8980.6	8850.4	8583.0	8322.5	8107.9	7580.0
30°	9329.0	9353.6	9522.5	9673.9	9515.5	9399.4	9244.5	8970.1	8706.1	8544.2	7939.0
32.5°	9828.7	9825.2	9987.1	10110.2	9948.3	9856.9	9716.1	9438.1	9226.9	9156.6	8473.9
35°	10293.2	10293.2	10426.9	10550.1	10434.0	10384.7	10254.5	10032.8	9913.2	9997.6	9188.2
37.5°	10761.2	10736.6	10863.3	11000.5	10990.0	10993.5	10919.6	10814.0	10821.1	11120.2	10170.0
40°	11148.3	11137.8	11285.6	11465.1	11605.8	11718.4	11672.7	11711.4	11933.1	12492.6	11426.3
42.5°	11458.0	11482.7	11672.7	11957.7	12313.1	12541.9	12573.6	12731.9	13302.0	14167.7	12844.5
45°	11813.4	11817.0	12080.9	12517.3	13083.8	13446.3	13573.0	13981.2	14790.6	15906.1	14399.9
47.5°	12249.8	12207.6	12503.2	13115.5	13935.4	14470.3	14695.5	15205.8	16458.6	17602.3	15666.8
50°	12731.9	12654.5	12988.8	13822.8	14889.1	15557.7	16015.2	16761.2	18112.5	18995.8	16609.9
52.5°	13291.4	13217.5	13597.6	14635.7	16032.8	16845.7	17433.4	18186.4	19530.7	20058.6	17173.0
55°	14002.3	13928.4	14329.6	15610.5	17384.1	18439.8	19055.6	19689.1	20850.4	20843.3	17581.2
57.5°	14790.6	14688.5	15244.5	16842.2	19069.7	20167.7	20794.1	21103.7	21853.3	21452.1	17855.6
60°	15695.0	15603.5	16374.1	18309.6	21015.8	22032.8	22426.9	22300.2	22676.7	21811.1	17760.6
62.5°	16511.4	16469.1	17426.3	19865.0	22870.3	23728.9	23838.0	23285.5	23282.0	21818.1	17120.2
65°	17359.5	17440.4	18862.1	21656.2	24735.4	25312.5	25126.0	24263.8	23524.8	20955.9	15226.9
67.5°	17676.2	17912.0	19808.7	23275.0	26206.3	26656.8	26329.5	24753.0	22514.9	18056.2	11595.3
70°	15719.6	16163.0	18914.9	23366.5	26815.1	27244.5	26459.7	23436.9	18770.6	11961.2	6351.9
72.5°	11954.2	12471.5	15761.8	19133.1	24116.0	25094.3	23753.6	19094.4	12098.5	5239.9	2132.5
75°	6689.7	7249.2	11739.5	14407.0	16191.1	17085.0	16592.3	12249.8	5359.5	1368.9	636.9
77.5°	2262.7	2449.3	5461.6	8913.7	10687.3	9885.0	8368.3	6084.4	1970.7	520.8	337.8
80°	1340.8	1411.1	2034.0	4437.5	5623.4	4662.7	3680.9	2248.7	1002.9	278.0	235.8
82.5°	401.2	475.1	1122.6	1646.9	2202.9	1372.4	1161.3	1284.5	520.8	151.3	197.1
85°	0.0	0.0	239.3	510.3	577.1	225.2	225.2	728.4	95.0	63.3	144.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	17.6	10.6	14.1	31.7
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°	6563.0	6563.0	6563.0	6563.0	6563.0	6563.0	6563.0	6563.0	6563.0	6563.0	6563.0
2.5°	6520.8	6397.6	6253.3	6116.1	5985.9	5817.0	5736.0	5637.5	5553.1	5507.3	5531.9
5°	6390.6	6197.0	5901.4	5602.3	5299.7	5014.6	4757.8	4585.3	4430.5	4349.5	4367.1
7.5°	6278.0	6017.6	5556.6	5067.4	4581.8	4092.7	3695.0	3385.3	3146.0	3047.5	3029.9
10°	6228.7	5901.4	5250.4	4546.6	3800.6	3142.5	2579.5	2238.1	1995.3	1875.7	1896.8
12.5°	6253.3	5841.6	4990.0	4036.3	3068.6	2301.5	1763.0	1442.8	1270.4	1200.0	1182.4
15°	6323.7	5827.5	4757.8	3515.5	2368.3	1608.2	1217.6	1087.4	1052.2	1045.2	1045.2
17.5°	6404.7	5831.1	4518.5	2987.7	1798.2	1193.0	1041.6	1017.0	1006.4	999.4	1002.9
20°	6485.6	5831.1	4244.0	2452.8	1351.3	1031.1	992.4	974.8	964.2	960.7	960.7
22.5°	6584.1	5831.1	3937.8	1956.6	1083.9	978.3	946.6	936.1	925.5	922.0	918.5
25°	6703.8	5834.6	3600.0	1530.8	985.3	932.5	907.9	897.4	886.8	879.8	879.8
27.5°	6876.2	5862.7	3227.0	1193.0	929.0	890.3	869.2	858.6	848.1	837.5	837.5
30°	7126.1	5933.1	2808.2	985.3	876.2	844.6	823.5	816.4	805.9	795.3	791.8
32.5°	7499.1	6056.3	2375.4	883.3	827.0	795.3	770.7	763.6	753.1	742.5	739.0
35°	8019.9	6281.5	1953.1	819.9	763.6	732.0	717.9	714.4	700.3	689.7	689.7
37.5°	8783.5	6647.5	1548.4	756.6	710.8	686.2	668.6	661.6	647.5	636.9	633.4
40°	9716.1	7122.6	1203.5	707.3	661.6	636.9	619.4	608.8	591.2	577.1	570.1
42.5°	10905.5	7703.2	950.1	654.5	615.8	591.2	577.1	556.0	531.4	510.3	506.7
45°	12144.2	8301.4	784.7	605.3	573.6	552.5	534.9	506.7	471.6	446.9	439.9
47.5°	13094.4	8674.5	686.2	552.5	527.9	510.3	489.1	454.0	411.7	383.6	376.5
50°	13773.6	8730.8	612.3	503.2	489.1	471.6	439.9	397.7	351.9	323.8	316.7
52.5°	14107.9	8477.4	552.5	457.5	446.9	429.3	390.6	344.9	295.6	267.4	260.4
55°	14259.2	7998.8	496.2	418.8	404.7	383.6	341.3	292.1	242.8	218.2	211.1
57.5°	14199.4	7291.5	446.9	380.1	362.5	337.8	292.1	239.3	200.6	176.0	172.4
60°	13756.0	6299.1	397.7	341.3	320.2	292.1	246.3	197.1	161.9	144.3	140.8
62.5°	12798.8	5067.4	348.4	295.6	281.5	253.4	211.1	161.9	133.7	123.2	119.6
65°	10838.7	3582.4	299.1	249.9	242.8	214.7	176.0	133.7	116.1	109.1	105.6
67.5°	7791.2	2178.3	253.4	214.7	207.6	183.0	147.8	116.1	105.6	102.1	102.1
70°	3916.7	1031.1	200.6	176.0	176.0	151.3	126.7	105.6	102.1	98.5	98.5
72.5°	1330.2	439.9	151.3	137.2	144.3	130.2	109.1	98.5	98.5	98.5	98.5
75°	454.0	232.3	105.6	98.5	105.6	105.6	95.0	95.0	98.5	98.5	98.5
77.5°	295.6	154.8	73.9	66.9	80.9	80.9	80.9	88.0	95.0	95.0	95.0
80°	242.8	84.5	49.3	45.7	59.8	59.8	66.9	80.9	88.0	88.0	88.0
82.5°	207.6	52.8	28.2	31.7	42.2	45.7	56.3	66.9	77.4	80.9	80.9
85°	140.8	28.2	21.1	24.6	28.2	35.2	45.7	56.3	63.3	70.4	70.4
87.5°	38.7	10.6	14.1	17.6	17.6	24.6	35.2	42.2	49.3	52.8	52.8
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)