

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: P640732

Luminaire Tested: GWS-SA5E-740-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640732  
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-SA5E-740-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

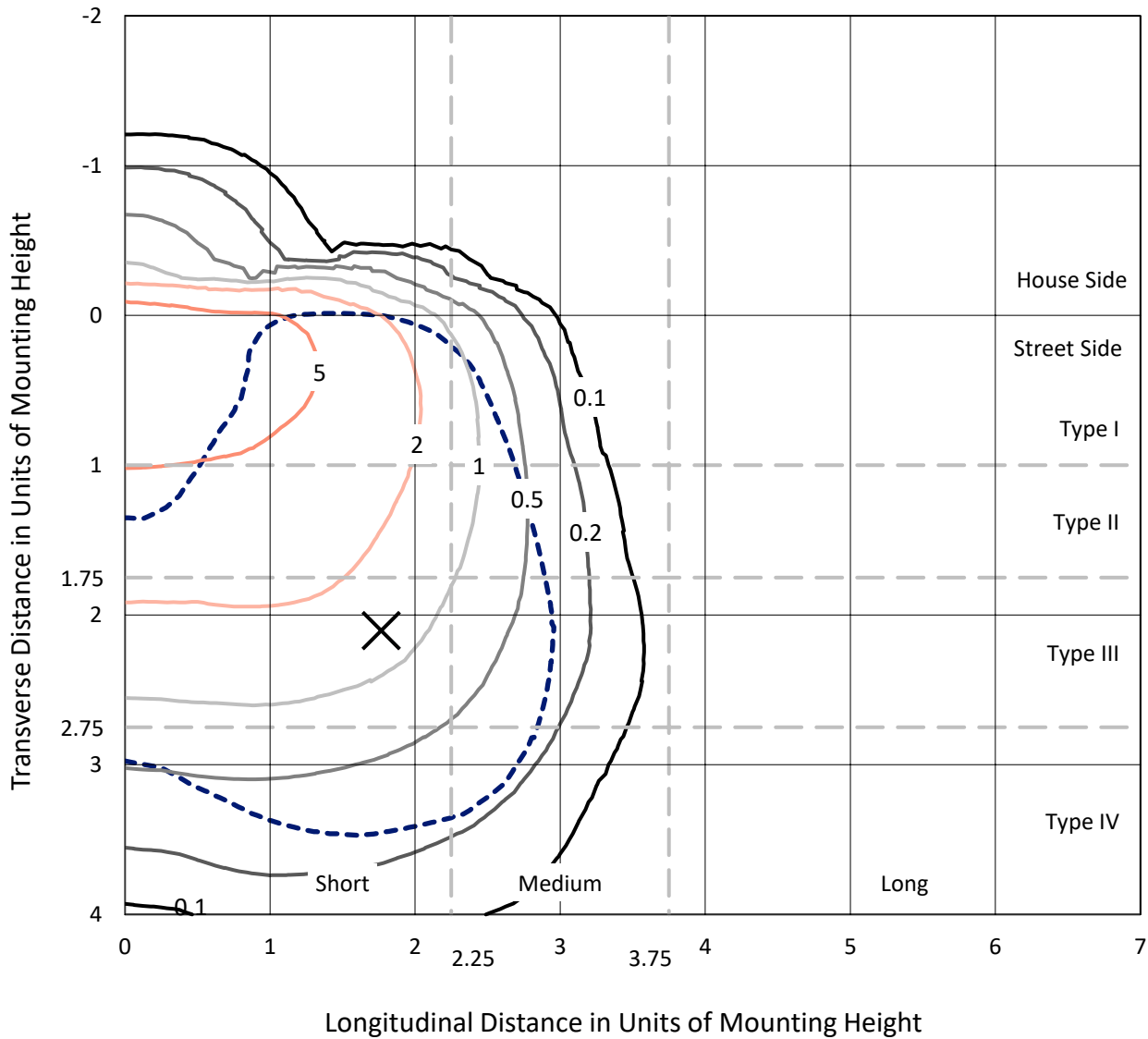
Lumens per Lamp: N/A  
Luminaire Lumens: 29578.8 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

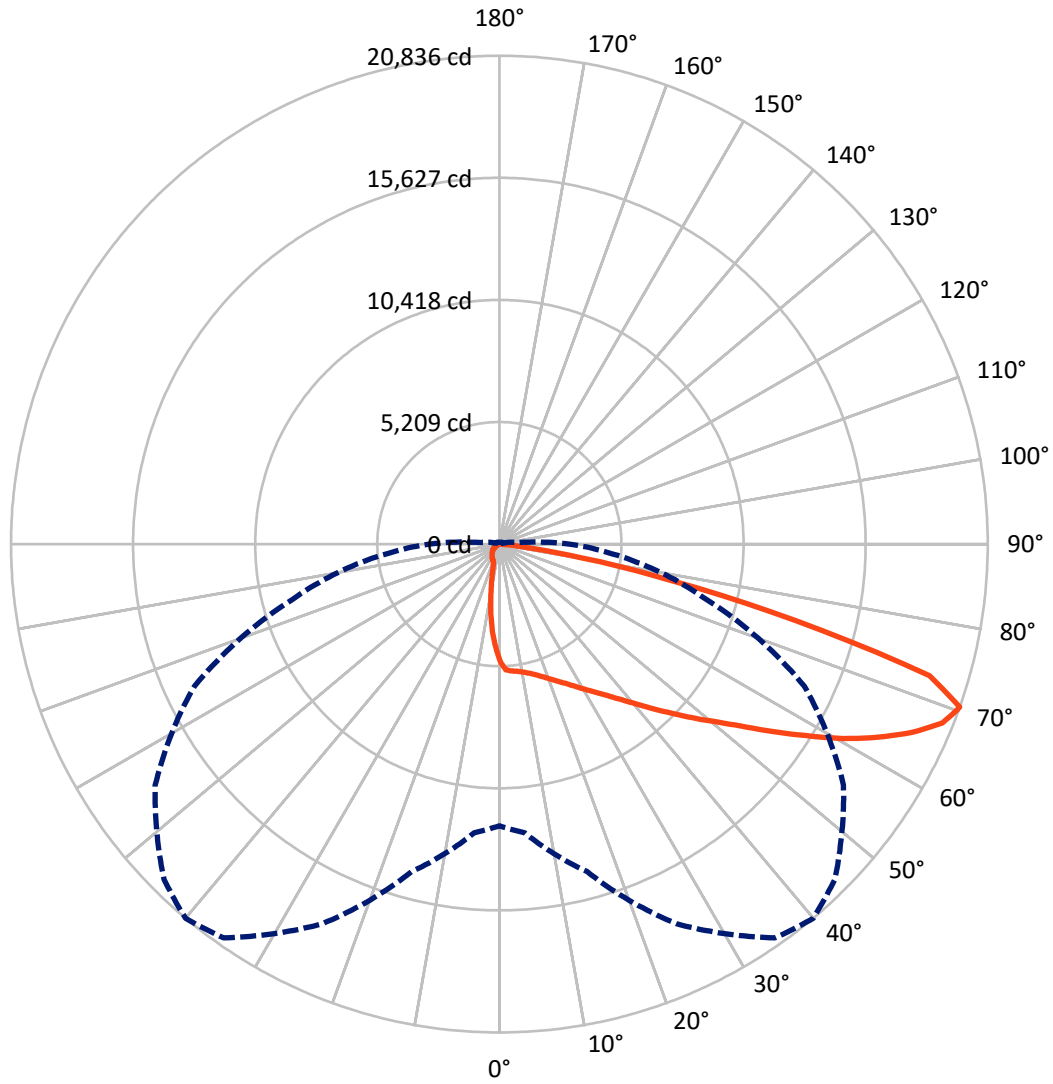
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	2418.8	0.0	2418.8
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	27160.0	0.0	27160.0
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	29578.8	0.0	29578.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	424.2	1.4
10°-20°	1075.9	3.6
20°-30°	1800.7	6.1
30°-40°	2828.3	9.6
40°-50°	4473.7	15.1
50°-60°	6525.9	22.1
60°-70°	8089.8	27.4
70°-80°	4093.0	13.8
80°-90°	267.2	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°	29578.8	100.0
0°-180°	29578.8	100.0

**Coefficient of Utilization**



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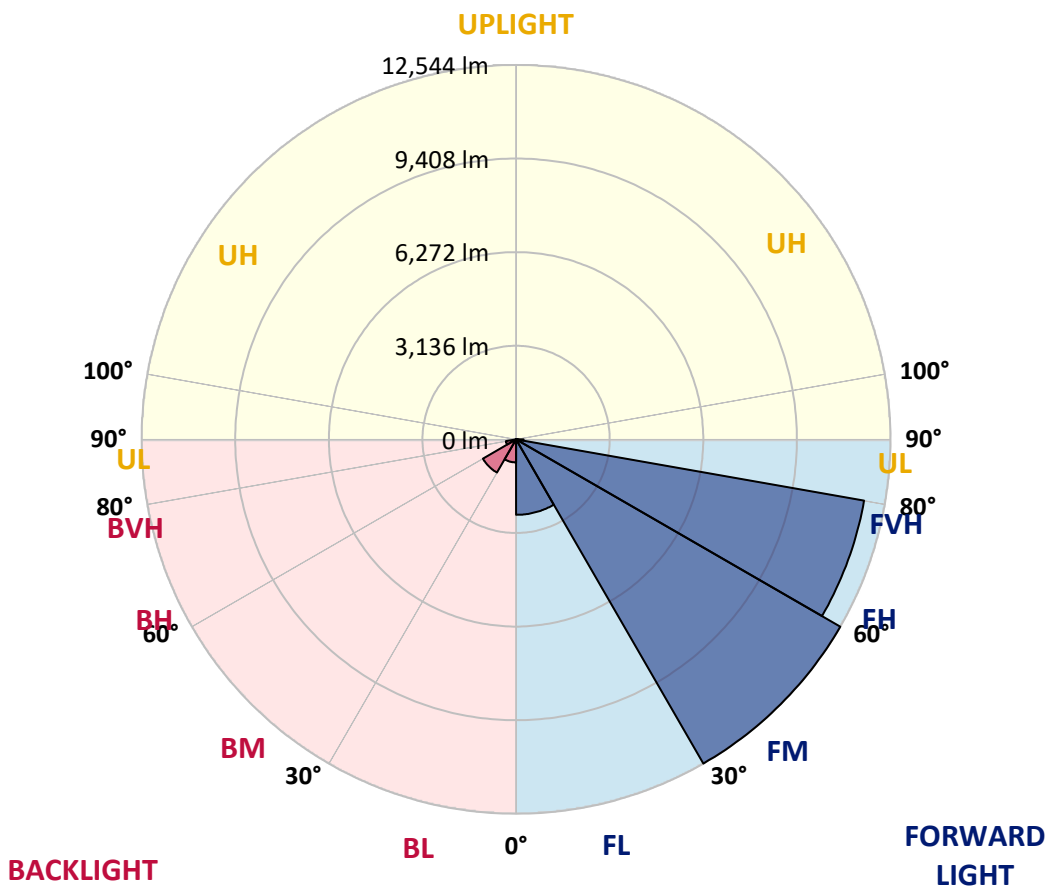
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2528.5	8.5			
FM (30°-60°)	12544.0	42.4			
FH (60°-80°)	11838.0	40.0			G4/12000
FVH (80°-90°)	249.6	0.8			G3/500
BL (0°-30°)	772.4	2.6	B2/1000		
BM (30°-60°)	1283.9	4.3	B2/2500		
BH (60°-80°)	344.9	1.2	B1/500		G1/500
BVH (80°-90°)	17.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5019.2	5019.2	5019.2	5019.2	5019.2	5019.2	5019.2	5019.2	5019.2	5019.2	5019.2
2.5°	5395.9	5414.8	5412.1	5420.2	5401.3	5371.7	5366.3	5326.0	5253.3	5161.8	5059.5
5°	5506.3	5527.8	5511.7	5503.6	5468.6	5436.3	5428.2	5385.2	5301.7	5178.0	5000.3
7.5°	5600.5	5605.9	5595.1	5576.3	5525.1	5482.1	5452.5	5393.3	5293.7	5169.9	4965.3
10°	5616.6	5613.9	5619.3	5622.0	5589.7	5552.0	5527.8	5447.1	5320.6	5188.7	4968.0
12.5°	5597.8	5597.8	5632.8	5673.1	5673.1	5654.3	5630.1	5557.4	5409.4	5253.3	5021.9
15°	5622.0	5630.1	5697.4	5772.7	5796.9	5778.1	5767.3	5692.0	5538.6	5366.3	5118.7
17.5°	5708.1	5716.2	5823.8	5936.9	5966.5	5945.0	5923.4	5848.1	5683.9	5495.5	5229.1
20°	5834.6	5856.1	5993.4	6138.7	6165.6	6138.7	6095.7	5990.7	5826.5	5635.5	5334.0
22.5°	6066.1	6079.5	6227.5	6380.9	6394.4	6351.3	6286.7	6141.4	5969.2	5783.5	5452.5
25°	6372.9	6391.7	6539.7	6687.7	6652.8	6588.2	6499.4	6335.2	6138.7	5958.4	5603.2
27.5°	6738.9	6760.4	6905.7	7034.9	6943.4	6868.1	6768.5	6563.9	6364.8	6200.6	5796.9
30°	7134.5	7153.3	7282.5	7398.2	7277.1	7188.3	7069.9	6860.0	6658.1	6534.3	6071.4
32.5°	7516.6	7513.9	7637.7	7731.9	7608.1	7538.2	7430.5	7217.9	7056.4	7002.6	6480.5
35°	7871.9	7871.9	7974.2	8068.3	7979.5	7941.9	7842.3	7672.7	7581.2	7645.8	7026.8
37.5°	8229.8	8211.0	8307.9	8412.8	8404.8	8407.4	8350.9	8270.2	8275.6	8504.3	7777.7
40°	8525.9	8517.8	8630.8	8768.1	8875.7	8961.8	8926.9	8956.5	9126.0	9553.9	8738.5
42.5°	8762.7	8781.5	8926.9	9144.8	9416.7	9591.6	9615.8	9736.9	10172.9	10834.9	9823.0
45°	9034.5	9037.2	9239.0	9572.8	10006.0	10283.2	10380.1	10692.3	11311.3	12164.4	11012.6
47.5°	9368.2	9335.9	9562.0	10030.3	10657.3	11066.4	11238.6	11628.9	12586.9	13461.6	11981.4
50°	9736.9	9677.7	9933.4	10571.2	11386.6	11898.0	12247.8	12818.4	13851.8	14527.3	12702.7
52.5°	10164.8	10108.3	10399.0	11192.9	12261.3	12883.0	13332.4	13908.3	14936.4	15340.1	13133.3
55°	10708.5	10651.9	10958.7	11938.4	13294.7	14102.1	14573.1	15057.5	15945.6	15940.2	13445.4
57.5°	11311.3	11233.2	11658.5	12880.3	14583.8	15423.5	15902.6	16139.4	16712.6	16405.8	13655.4
60°	12002.9	11933.0	12522.4	14002.5	16072.1	16849.9	17151.3	17054.4	17342.4	16680.3	13582.7
62.5°	12627.3	12595.0	13327.0	15192.1	17490.4	18147.1	18230.5	17808.0	17805.3	16685.7	13092.9
65°	13275.9	13337.8	14425.1	16561.9	18916.7	19358.1	19215.5	18556.1	17991.0	16026.4	11645.0
67.5°	13518.1	13698.4	15149.0	17799.9	20041.7	20386.2	20135.9	18930.2	17218.6	13808.8	8867.6
70°	12021.8	12360.9	14465.4	17869.9	20507.3	20835.6	20235.5	17923.7	14355.1	9147.5	4857.7
72.5°	9142.2	9537.8	12054.1	14632.3	18443.1	19191.3	18165.9	14602.7	9252.5	4007.3	1630.9
75°	5116.1	5544.0	8978.0	11017.9	12382.4	13066.0	12689.2	9368.2	4098.8	1046.9	487.1
77.5°	1730.5	1873.1	4176.8	6816.9	8173.3	7559.7	6399.8	4653.2	1507.1	398.3	258.4
80°	1025.4	1079.2	1555.5	3393.7	4300.6	3565.9	2815.0	1719.7	767.0	212.6	180.3
82.5°	306.8	363.3	858.5	1259.5	1684.7	1049.6	888.1	982.3	398.3	115.7	150.7
85°	0.0	0.0	183.0	390.2	441.4	172.2	172.2	557.1	72.7	48.4	110.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	13.5	8.1	10.8	24.2
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°	5019.2	5019.2	5019.2	5019.2	5019.2	5019.2	5019.2	5019.2	5019.2	5019.2	5019.2
2.5°	4986.9	4892.7	4782.3	4677.4	4577.8	4448.6	4386.7	4311.4	4246.8	4211.8	4230.6
5°	4887.3	4739.3	4513.2	4284.5	4053.0	3835.0	3638.6	3506.7	3388.3	3326.4	3339.8
7.5°	4801.2	4602.0	4249.5	3875.4	3504.0	3129.9	2825.8	2589.0	2406.0	2330.6	2317.2
10°	4763.5	4513.2	4015.3	3477.1	2906.5	2403.3	1972.7	1711.6	1525.9	1434.4	1450.6
12.5°	4782.3	4467.5	3816.2	3086.9	2346.8	1760.1	1348.3	1103.4	971.5	917.7	904.3
15°	4836.2	4456.7	3638.6	2688.6	1811.2	1229.9	931.2	831.6	804.7	799.3	799.3
17.5°	4898.1	4459.4	3455.6	2284.9	1375.2	912.3	796.6	777.8	769.7	764.3	767.0
20°	4960.0	4459.4	3245.6	1875.8	1033.4	788.5	758.9	745.5	737.4	734.7	734.7
22.5°	5035.3	4459.4	3011.5	1496.3	828.9	748.2	723.9	715.9	707.8	705.1	702.4
25°	5126.8	4462.1	2753.1	1170.7	753.5	713.2	694.3	686.3	678.2	672.8	672.8
27.5°	5258.7	4483.6	2467.9	912.3	710.5	680.9	664.7	656.7	648.6	640.5	640.5
30°	5449.8	4537.4	2147.6	753.5	670.1	645.9	629.8	624.4	616.3	608.2	605.5
32.5°	5735.0	4631.6	1816.6	675.5	632.4	608.2	589.4	584.0	575.9	567.9	565.2
35°	6133.3	4803.9	1493.6	627.1	584.0	559.8	549.0	546.3	535.6	527.5	527.5
37.5°	6717.3	5083.8	1184.1	578.6	543.6	524.8	511.3	506.0	495.2	487.1	484.4
40°	7430.5	5447.1	920.4	540.9	506.0	487.1	473.7	465.6	452.1	441.4	436.0
42.5°	8340.2	5891.1	726.6	500.6	471.0	452.1	441.4	425.2	406.4	390.2	387.5
45°	9287.5	6348.6	600.1	462.9	438.7	422.5	409.1	387.5	360.6	341.8	336.4
47.5°	10014.1	6633.9	524.8	422.5	403.7	390.2	374.1	347.2	314.9	293.3	288.0
50°	10533.5	6677.0	468.3	384.8	374.1	360.6	336.4	304.1	269.1	247.6	242.2
52.5°	10789.2	6483.2	422.5	349.9	341.8	328.3	298.7	263.7	226.1	204.5	199.2
55°	10904.9	6117.2	379.5	320.3	309.5	293.3	261.1	223.4	185.7	166.9	161.5
57.5°	10859.2	5576.3	341.8	290.7	277.2	258.4	223.4	183.0	153.4	134.6	131.9
60°	10520.1	4817.3	304.1	261.1	244.9	223.4	188.4	150.7	123.8	110.3	107.6
62.5°	9788.0	3875.4	266.4	226.1	215.3	193.8	161.5	123.8	102.3	94.2	91.5
65°	8289.0	2739.7	228.8	191.1	185.7	164.2	134.6	102.3	88.8	83.4	80.7
67.5°	5958.4	1665.9	193.8	164.2	158.8	139.9	113.0	88.8	80.7	78.0	78.0
70°	2995.4	788.5	153.4	134.6	134.6	115.7	96.9	80.7	78.0	75.4	75.4
72.5°	1017.3	336.4	115.7	105.0	110.3	99.6	83.4	75.4	75.4	75.4	75.4
75°	347.2	177.6	80.7	75.4	80.7	80.7	72.7	72.7	75.4	75.4	75.4
77.5°	226.1	118.4	56.5	51.1	61.9	61.9	61.9	67.3	72.7	72.7	72.7
80°	185.7	64.6	37.7	35.0	45.8	45.8	51.1	61.9	67.3	67.3	67.3
82.5°	158.8	40.4	21.5	24.2	32.3	35.0	43.1	51.1	59.2	61.9	61.9
85°	107.6	21.5	16.1	18.8	21.5	26.9	35.0	43.1	48.4	53.8	53.8
87.5°	29.6	8.1	10.8	13.5	13.5	18.8	26.9	32.3	37.7	40.4	40.4
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)