

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: P642327

Luminaire Tested: GWS-SA6C-760-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642327  
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-SA6C-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

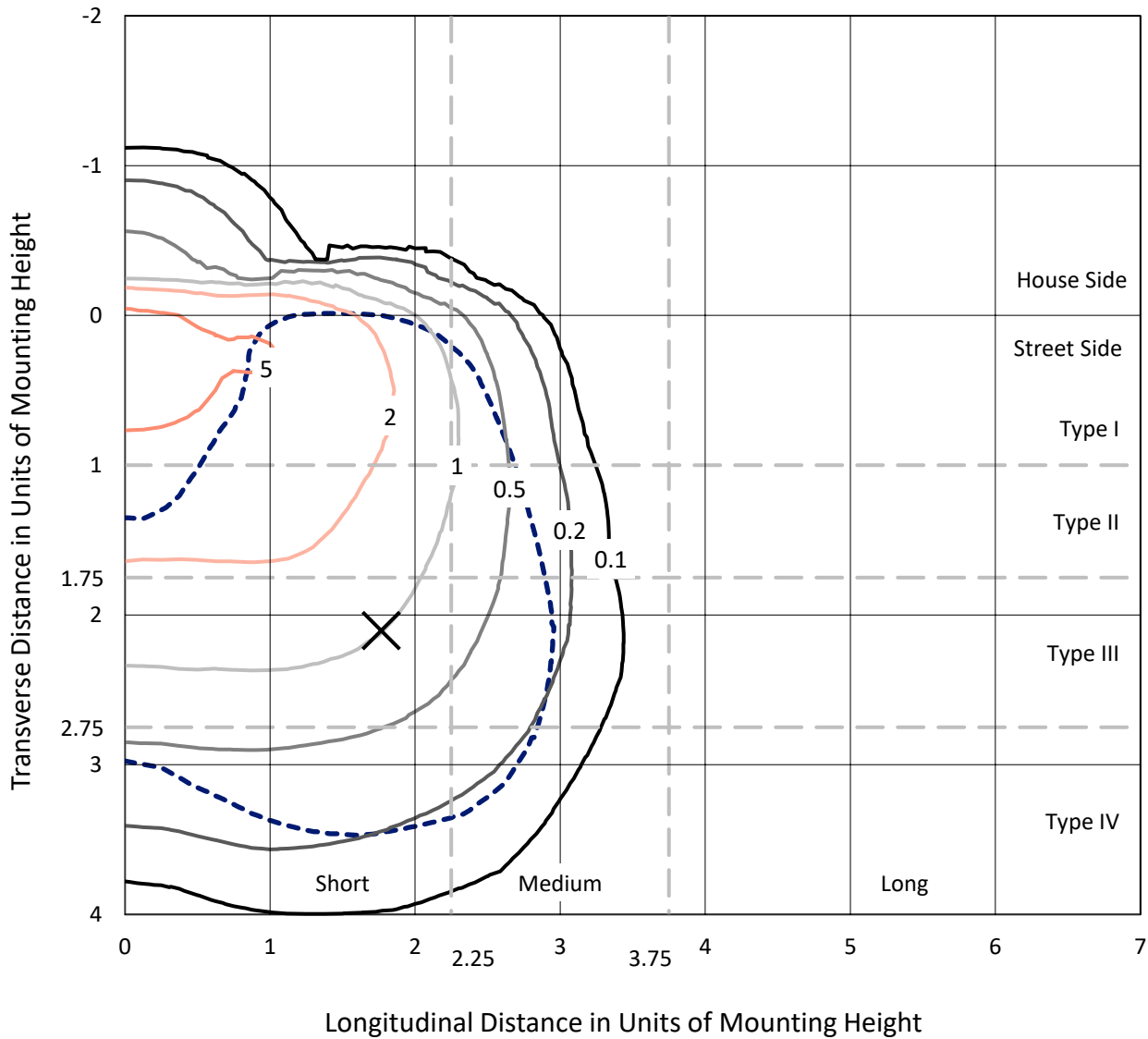
Lumens per Lamp: N/A  
Luminaire Lumens: 22571.6 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

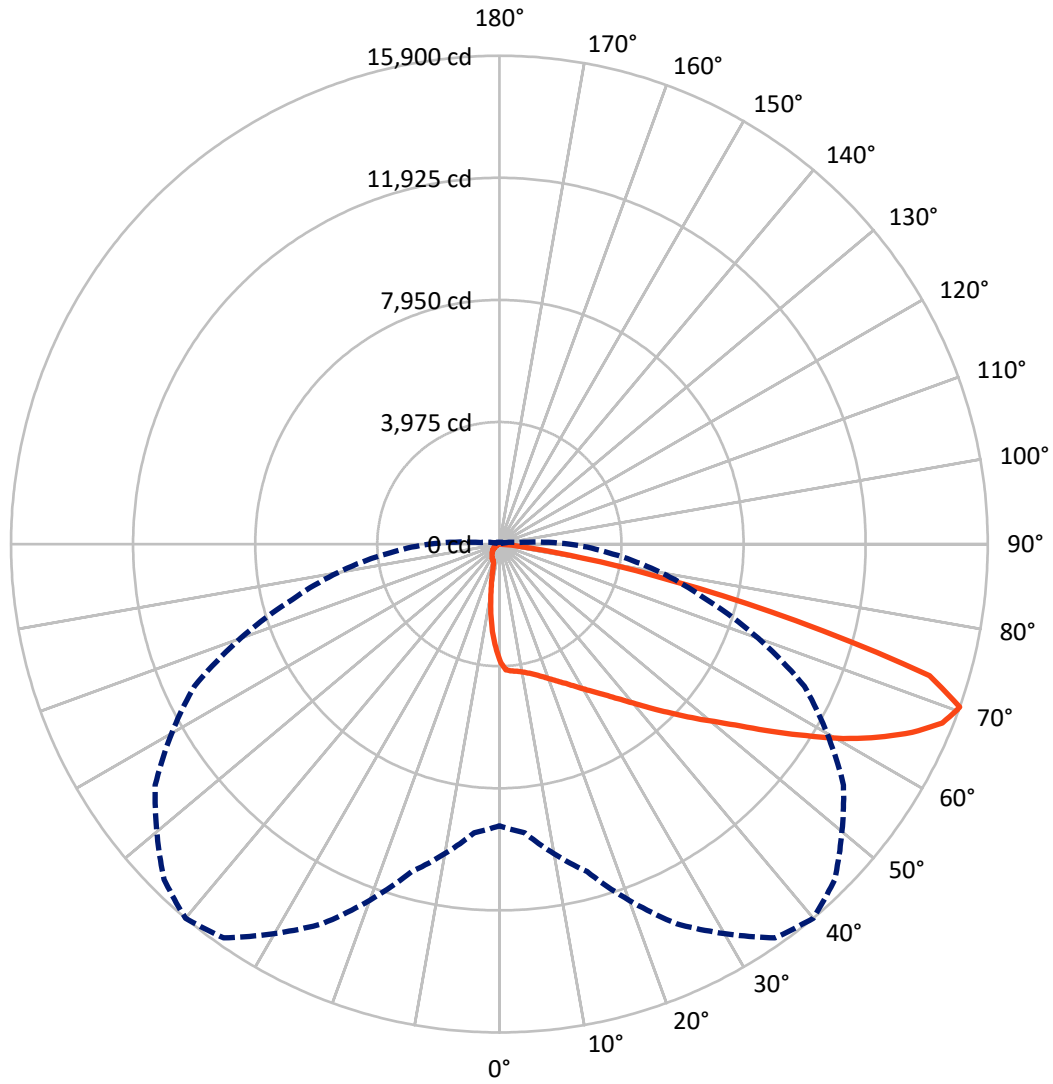
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	1845.8	0.0	1845.8
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	20725.8	0.0	20725.8
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	22571.6	0.0	22571.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.7	1.4
10°-20°	821.0	3.6
20°-30°	1374.1	6.1
30°-40°	2158.3	9.6
40°-50°	3413.9	15.1
50°-60°	4980.0	22.1
60°-70°	6173.4	27.4
70°-80°	3123.4	13.8
80°-90°	203.9	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°	22571.6	100.0
0°-180°	22571.6	100.0

**Coefficient of Utilization**



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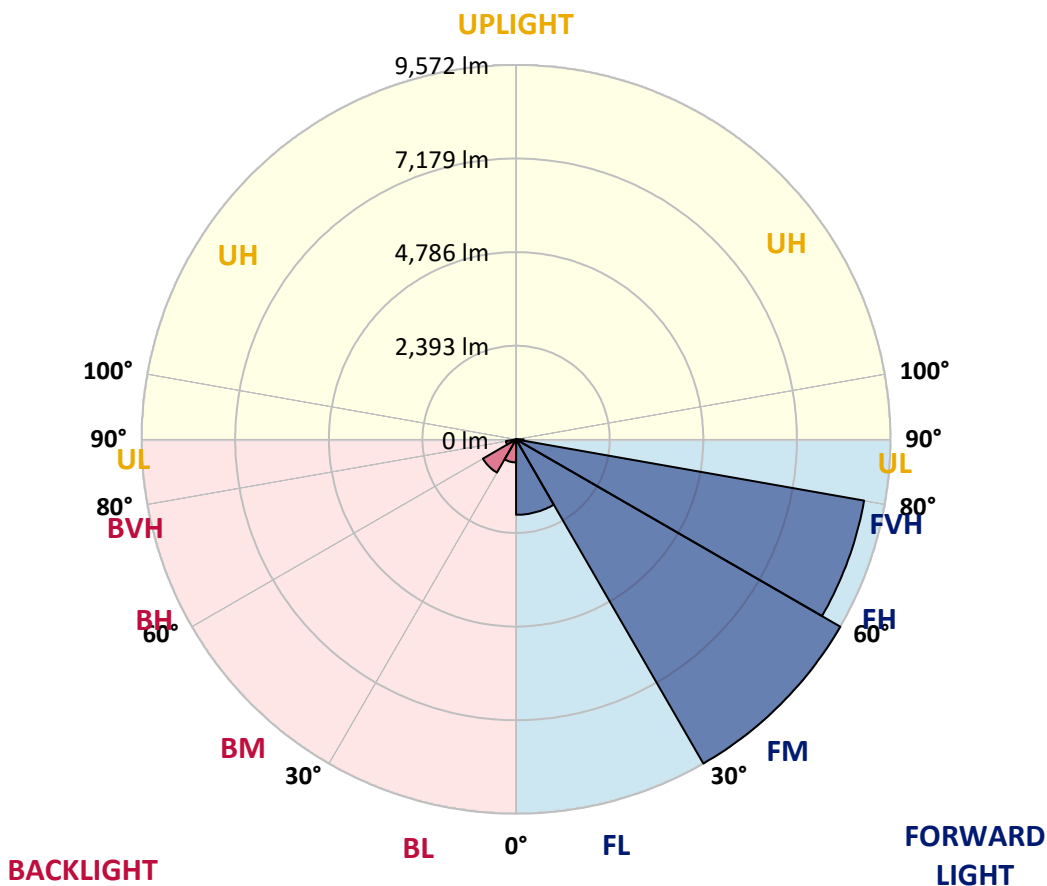
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1929.5	8.5			
FM (30°-60°)	9572.4	42.4			
FH (60°-80°)	9033.6	40.0			G4/12000
FVH (80°-90°)	190.4	0.8			G2/225
BL (0°-30°)	589.4	2.6	B2/1000		
BM (30°-60°)	979.7	4.3	B1/1000		
BH (60°-80°)	263.2	1.2	B1/500		G1/500
BVH (80°-90°)	13.5	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°	3830.1	3830.1	3830.1	3830.1	3830.1	3830.1	3830.1	3830.1	3830.1	3830.1	3830.1
2.5°	4117.6	4132.0	4130.0	4136.1	4121.8	4099.2	4095.1	4064.3	4008.8	3939.0	3860.9
5°	4201.8	4218.3	4206.0	4199.8	4173.1	4148.5	4142.3	4109.4	4045.8	3951.3	3815.8
7.5°	4273.7	4277.8	4269.6	4255.2	4216.2	4183.4	4160.8	4115.6	4039.6	3945.1	3789.1
10°	4286.0	4284.0	4288.1	4290.2	4265.5	4236.8	4218.3	4156.7	4060.1	3959.5	3791.1
12.5°	4271.7	4271.7	4298.4	4329.2	4329.2	4314.8	4296.3	4240.9	4127.9	4008.8	3832.2
15°	4290.2	4296.3	4347.7	4405.2	4423.6	4409.3	4401.1	4343.6	4226.5	4095.1	3906.1
17.5°	4355.9	4362.0	4444.2	4530.4	4553.0	4536.6	4520.2	4462.7	4337.4	4193.6	3990.3
20°	4452.4	4468.8	4573.6	4684.5	4705.0	4684.5	4651.6	4571.5	4446.2	4300.4	4070.4
22.5°	4629.0	4639.3	4752.2	4869.3	4879.6	4846.7	4797.4	4686.5	4555.1	4413.4	4160.8
25°	4863.1	4877.5	4990.5	5103.4	5076.7	5027.4	4959.7	4834.4	4684.5	4546.9	4275.8
27.5°	5142.4	5158.9	5269.8	5368.3	5298.5	5241.0	5165.0	5008.9	4857.0	4731.7	4423.6
30°	5444.3	5458.7	5557.3	5645.6	5553.2	5485.4	5395.0	5234.9	5080.8	4986.4	4633.1
32.5°	5736.0	5733.9	5828.4	5900.2	5805.8	5752.4	5670.2	5508.0	5384.8	5343.7	4945.3
35°	6007.0	6007.0	6085.1	6157.0	6089.2	6060.4	5984.4	5855.1	5785.2	5834.5	5362.2
37.5°	6280.2	6265.8	6339.7	6419.8	6413.7	6415.7	6372.6	6311.0	6315.1	6489.7	5935.2
40°	6506.1	6499.9	6586.2	6690.9	6773.1	6838.8	6812.1	6834.7	6964.1	7290.6	6668.3
42.5°	6686.8	6701.2	6812.1	6978.4	7185.9	7319.3	7337.8	7430.2	7762.9	8268.2	7496.0
45°	6894.2	6896.3	7050.3	7305.0	7635.6	7847.1	7921.1	8159.3	8631.7	9282.7	8403.7
47.5°	7148.9	7124.2	7296.8	7654.1	8132.6	8444.8	8576.2	8874.0	9605.1	10272.6	9143.0
50°	7430.2	7385.1	7580.2	8066.9	8689.2	9079.4	9346.3	9781.7	10570.3	11085.8	9693.4
52.5°	7756.8	7713.7	7935.5	8541.3	9356.6	9831.0	10174.0	10613.5	11398.0	11706.0	10022.0
55°	8171.6	8128.5	8362.6	9110.2	10145.2	10761.3	11120.7	11490.4	12168.1	12164.0	10260.2
57.5°	8631.7	8572.1	8896.6	9829.0	11128.9	11769.7	12135.2	12316.0	12753.4	12519.3	10420.4
60°	9159.5	9106.1	9555.8	10685.3	12264.6	12858.1	13088.2	13014.2	13234.0	12728.8	10365.0
62.5°	9635.9	9611.3	10169.9	11593.1	13346.9	13848.0	13911.7	13589.3	13587.2	12732.9	9991.2
65°	10130.8	10178.1	11007.8	12638.4	14435.4	14772.2	14663.3	14160.2	13728.9	12229.7	8886.3
67.5°	10315.7	10453.3	11560.2	13583.1	15293.8	15556.7	15365.7	14445.6	13139.5	10537.5	6766.9
70°	9173.8	9432.6	11038.6	13636.5	15649.1	15899.7	15441.7	13677.6	10954.4	6980.5	3706.9
72.5°	6976.4	7278.3	9198.5	11165.9	14073.9	14644.9	13862.4	11143.3	7060.6	3057.9	1244.5
75°	3904.1	4230.6	6851.1	8407.8	9449.0	9970.7	9683.1	7148.9	3127.8	798.9	371.7
77.5°	1320.5	1429.4	3187.3	5202.0	6237.1	5768.8	4883.7	3550.8	1150.1	303.9	197.2
80°	782.5	823.5	1187.0	2589.7	3281.8	2721.1	2148.2	1312.3	585.3	162.2	137.6
82.5°	234.1	277.2	655.1	961.1	1285.6	800.9	677.7	749.6	303.9	88.3	115.0
85°	0.0	0.0	139.7	297.8	336.8	131.4	131.4	425.1	55.4	37.0	84.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	10.3	6.2	8.2	18.5
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°	3830.1	3830.1	3830.1	3830.1	3830.1	3830.1	3830.1	3830.1	3830.1	3830.1	3830.1
2.5°	3805.5	3733.6	3649.4	3569.3	3493.3	3394.7	3347.5	3290.0	3240.7	3214.0	3228.4
5°	3729.5	3616.5	3444.0	3269.5	3092.9	2926.5	2776.6	2676.0	2585.6	2538.4	2548.6
7.5°	3663.8	3511.8	3242.8	2957.3	2673.9	2388.4	2156.4	1975.6	1836.0	1778.5	1768.2
10°	3635.0	3444.0	3064.1	2653.4	2218.0	1833.9	1505.4	1306.1	1164.4	1094.6	1106.9
12.5°	3649.4	3409.1	2912.1	2355.6	1790.8	1343.1	1028.9	842.0	741.4	700.3	690.0
15°	3690.5	3400.9	2776.6	2051.6	1382.1	938.5	710.6	634.6	614.1	609.9	609.9
17.5°	3737.7	3403.0	2636.9	1743.6	1049.4	696.2	607.9	593.5	587.4	583.2	585.3
20°	3784.9	3403.0	2476.7	1431.4	788.6	601.7	579.1	568.9	562.7	560.7	560.7
22.5°	3842.5	3403.0	2298.1	1141.9	632.5	570.9	552.4	546.3	540.1	538.1	536.0
25°	3912.3	3405.0	2100.9	893.4	575.0	544.2	529.9	523.7	517.5	513.4	513.4
27.5°	4012.9	3421.4	1883.2	696.2	542.2	519.6	507.3	501.1	494.9	488.8	488.8
30°	4158.7	3462.5	1638.8	575.0	511.4	492.9	480.6	476.5	470.3	464.1	462.1
32.5°	4376.4	3534.4	1386.2	515.5	482.6	464.1	449.8	445.7	439.5	433.3	431.3
35°	4680.4	3665.8	1139.8	478.5	445.7	427.2	419.0	416.9	408.7	402.5	402.5
37.5°	5126.0	3879.4	903.6	441.5	414.8	400.5	390.2	386.1	377.9	371.7	369.7
40°	5670.2	4156.7	702.4	412.8	386.1	371.7	361.4	355.3	345.0	336.8	332.7
42.5°	6364.4	4495.5	554.5	382.0	359.4	345.0	336.8	324.5	310.1	297.8	295.7
45°	7087.3	4844.7	458.0	353.2	334.8	322.4	312.2	295.7	275.2	260.8	256.7
47.5°	7641.8	5062.3	400.5	322.4	308.1	297.8	285.5	264.9	240.3	223.9	219.7
50°	8038.1	5095.2	357.3	293.7	285.5	275.2	256.7	232.1	205.4	188.9	184.8
52.5°	8233.2	4947.3	322.4	267.0	260.8	250.6	228.0	201.3	172.5	156.1	152.0
55°	8321.5	4668.0	289.6	244.4	236.2	223.9	199.2	170.5	141.7	127.3	123.2
57.5°	8286.6	4255.2	260.8	221.8	211.5	197.2	170.5	139.7	117.1	102.7	100.6
60°	8027.9	3676.1	232.1	199.2	186.9	170.5	143.8	115.0	94.5	84.2	82.1
62.5°	7469.3	2957.3	203.3	172.5	164.3	147.9	123.2	94.5	78.0	71.9	69.8
65°	6325.4	2090.7	174.6	145.8	141.7	125.3	102.7	78.0	67.8	63.7	61.6
67.5°	4546.9	1271.2	147.9	125.3	121.2	106.8	86.3	67.8	61.6	59.6	59.6
70°	2285.8	601.7	117.1	102.7	102.7	88.3	73.9	61.6	59.6	57.5	57.5
72.5°	776.3	256.7	88.3	80.1	84.2	76.0	63.7	57.5	57.5	57.5	57.5
75°	264.9	135.5	61.6	57.5	61.6	61.6	55.4	55.4	57.5	57.5	57.5
77.5°	172.5	90.4	43.1	39.0	47.2	47.2	47.2	51.3	55.4	55.4	55.4
80°	141.7	49.3	28.8	26.7	34.9	34.9	39.0	47.2	51.3	51.3	51.3
82.5°	121.2	30.8	16.4	18.5	24.6	26.7	32.9	39.0	45.2	47.2	47.2
85°	82.1	16.4	12.3	14.4	16.4	20.5	26.7	32.9	37.0	41.1	41.1
87.5°	22.6	6.2	8.2	10.3	10.3	14.4	20.5	24.6	28.8	30.8	30.8
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)