

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: P643150

Luminaire Tested: GWS-SA6E-735-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643150  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-735-U-SL3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

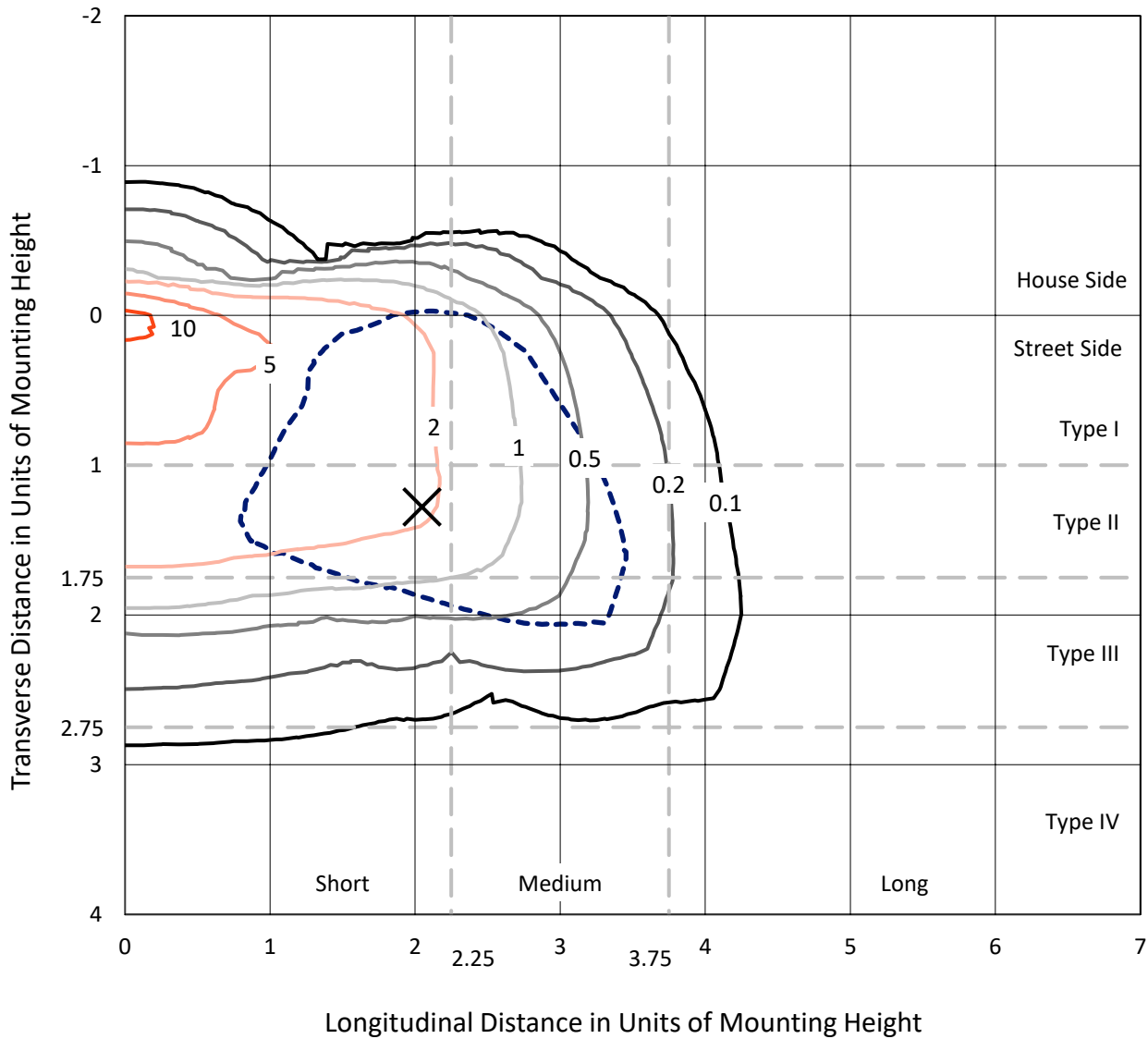
Lumens per Lamp: N/A  
Luminaire Lumens: 35758.9 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): 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

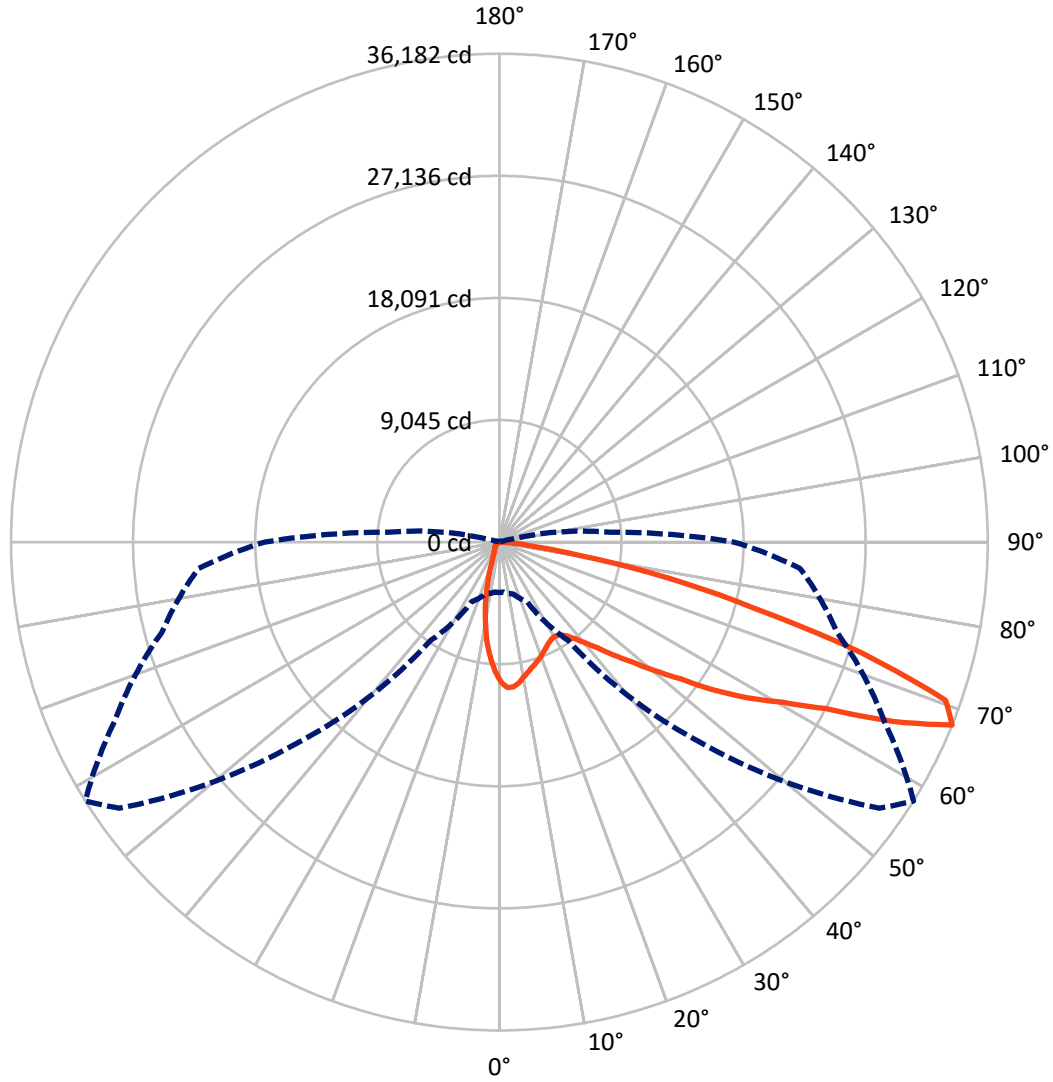
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3493.4	0.0	3493.4
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	32265.5	0.0	32265.5
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	35758.9	0.0	35758.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	838.2	2.3
10°-20°	1744.7	4.9
20°-30°	2352.9	6.6
30°-40°	3306.3	9.2
40°-50°	5106.3	14.3
50°-60°	8165.6	22.8
60°-70°	9668.7	27.0
70°-80°	4277.2	12.0
80°-90°	299.0	0.8
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°	35758.9	100.0
0°-180°	35758.9	100.0

**Coefficient of Utilization**



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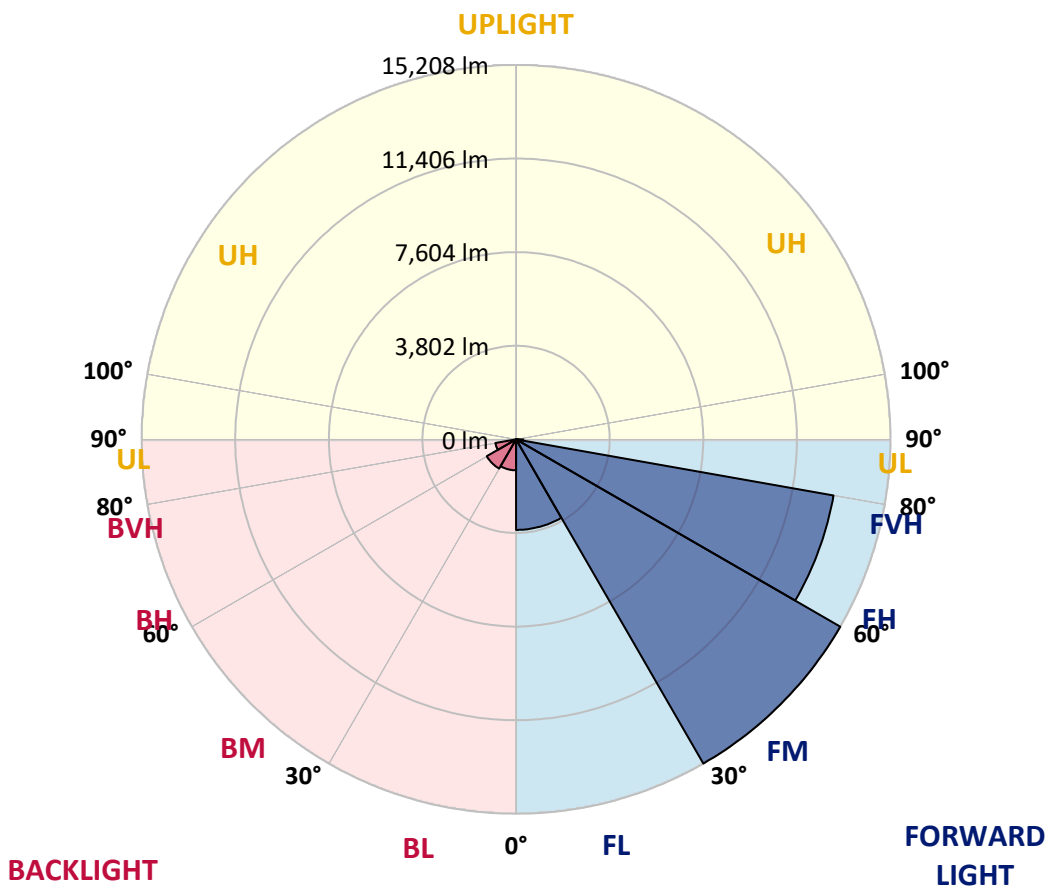
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3678.7	10.3			
FM (30°-60°)	15207.5	42.5			
FH (60°-80°)	13093.0	36.6			G5
FVH (80°-90°)	286.3	0.8			G3/500
BL (0°-30°)	1257.1	3.5	B3/2500		
BM (30°-60°)	1370.7	3.8	B2/2500		
BH (60°-80°)	852.8	2.4	B2/1000		G2/1000
BVH (80°-90°)	12.7	0.0			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10314.5	10314.5	10314.5	10314.5	10314.5	10314.5	10314.5	10314.5	10314.5	10314.5	10314.5
2.5°	10849.4	10868.4	10893.7	10925.4	10919.0	10890.6	10855.8	10776.6	10726.0	10567.7	10374.7
5°	10501.3	10498.1	10561.4	10621.5	10729.2	10786.1	10865.2	10792.5	10767.1	10577.2	10263.9
7.5°	9820.8	9855.6	9928.4	10023.4	10178.5	10346.2	10536.1	10513.9	10589.9	10463.3	10074.0
10°	9153.0	9134.0	9248.0	9390.4	9627.8	9843.0	10118.3	10115.2	10314.5	10301.9	9858.8
12.5°	8567.5	8564.3	8653.0	8814.4	9092.9	9393.5	9767.0	9776.5	10023.4	10124.6	9675.2
15°	8073.8	8080.1	8165.5	8333.3	8621.3	8988.4	9422.0	9501.2	9779.7	9985.4	9494.8
17.5°	7722.5	7725.6	7776.3	7921.8	8203.5	8596.0	9118.2	9225.8	9583.4	9880.9	9349.2
20°	7561.0	7548.4	7557.9	7630.7	7849.1	8206.7	8808.0	8947.3	9403.0	9808.2	9216.3
22.5°	7583.2	7564.2	7519.9	7510.4	7608.5	7880.7	8478.9	8649.8	9206.8	9763.8	9096.0
25°	7779.4	7738.3	7675.0	7580.0	7542.1	7678.1	8190.9	8368.1	9023.2	9767.0	9004.3
27.5°	8080.1	8035.8	7956.7	7830.1	7681.3	7624.3	7994.6	8162.4	8893.5	9839.8	8960.0
30°	8463.1	8428.2	8352.3	8200.4	8001.0	7766.8	7953.5	8092.8	8830.2	9988.6	8978.9
32.5°	8915.6	8890.3	8827.0	8687.8	8459.9	8102.3	8092.8	8200.4	8880.8	10203.8	9051.7
35°	9352.4	9361.9	9365.1	9289.1	9045.4	8611.8	8475.7	8513.7	9089.7	10526.6	9216.3
37.5°	9824.0	9801.8	9915.8	9969.6	9735.4	9273.3	9067.6	9070.7	9488.5	11004.5	9526.5
40°	10181.6	10187.9	10434.8	10656.4	10558.2	10112.0	9817.6	9814.5	10102.5	11659.6	10026.5
42.5°	10517.1	10558.2	10922.2	11302.0	11438.1	11042.5	10830.4	10751.3	10963.4	12545.8	10776.6
45°	10874.7	10934.9	11444.4	11985.6	12343.3	12109.1	11941.3	11973.0	11998.3	13577.6	11786.2
47.5°	11292.5	11330.5	11960.3	12723.1	13390.9	13330.7	13340.2	13302.3	13289.6	14878.4	13121.8
50°	11798.9	11887.5	12612.3	13523.8	14435.3	14834.1	14967.0	14982.8	14777.1	16296.3	14504.9
52.5°	12875.0	12982.6	13602.9	14400.5	15574.7	16413.4	16954.6	16847.0	16530.5	17669.9	16020.9
55°	14144.1	14226.4	14824.6	15650.6	16967.3	18144.6	19429.6	19385.3	18609.9	19116.2	17267.9
57.5°	14264.4	14356.2	15283.5	16549.5	18755.4	20284.1	21635.5	21778.0	20641.7	20141.7	18382.0
60°	12913.0	13099.7	14365.7	16068.4	19439.1	23161.0	24053.6	24082.0	22132.4	21183.0	19742.9
62.5°	10349.4	10438.0	11713.4	13935.2	18385.1	24838.5	27747.0	27145.7	24047.2	22793.9	21898.2
65°	5424.7	5785.5	6896.4	9355.6	14910.0	24252.9	32190.6	32026.0	27490.7	25101.2	23575.7
67.5°	3722.0	3718.8	3981.5	4877.2	8890.3	20882.3	34371.3	36181.6	31472.2	25892.4	22360.3
70°	2832.6	2842.1	3076.3	3658.7	4605.0	13900.4	31978.6	35073.9	32212.8	23509.2	18084.5
72.5°	1880.0	1899.0	2288.3	2956.1	3677.7	6814.1	24851.1	28063.5	27104.6	18882.0	12729.4
75°	1123.6	1139.4	1417.9	2149.0	3269.4	3813.8	15789.9	19401.1	18657.3	13014.2	6823.6
77.5°	462.1	474.7	727.9	1338.8	2392.7	2962.4	8732.1	12694.6	11175.4	5174.7	1864.2
80°	193.1	199.4	351.3	936.8	1724.9	1857.8	4044.8	5965.9	4579.7	1114.1	569.7
82.5°	69.6	72.8	129.8	515.9	1072.9	1398.9	2041.4	2357.9	1291.3	364.0	307.0
85°	3.2	3.2	31.6	174.1	408.3	395.6	1167.9	1129.9	427.3	151.9	183.6
87.5°	0.0	0.0	3.2	3.2	6.3	15.8	110.8	196.2	91.8	38.0	79.1
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°	10314.5	10314.5	10314.5	10314.5	10314.5	10314.5	10314.5	10314.5	10314.5	10314.5	10314.5
2.5°	10248.1	10080.3	9896.8	9725.9	9453.7	9292.3	9092.9	9004.3	8877.7	8846.0	8865.0
5°	10039.2	9751.2	9311.3	8912.5	8396.6	7982.0	7564.2	7387.0	7159.1	7007.2	6943.9
7.5°	9744.9	9368.2	8681.4	7956.7	7247.7	6491.3	5915.3	5535.5	5190.5	5000.6	4962.6
10°	9447.4	8956.8	7972.5	6934.4	5836.2	4931.0	4152.4	3576.4	3108.0	2895.9	2731.3
12.5°	9140.4	8529.5	7250.9	5896.3	4620.8	3386.5	2424.3	1864.2	1528.7	1395.7	1417.9
15°	8858.7	8118.1	6535.6	4858.2	3253.6	2044.6	1338.8	1129.9	1050.8	1025.4	1022.3
17.5°	8589.7	7728.8	5823.5	3848.6	2145.8	1253.3	1025.4	974.8	952.6	940.0	940.0
20°	8346.0	7355.3	5127.2	2899.1	1386.2	993.8	927.3	902.0	883.0	873.5	873.5
22.5°	8118.1	6994.5	4446.7	2050.9	1022.3	892.5	851.4	826.0	803.9	791.2	791.2
25°	7912.4	6668.5	3797.9	1411.6	879.9	816.6	772.2	743.8	705.8	683.6	683.6
27.5°	7763.6	6377.4	3174.4	1028.6	794.4	734.3	683.6	645.6	604.5	579.2	572.9
30°	7675.0	6130.5	2544.6	845.0	715.3	655.1	598.2	550.7	503.2	477.9	474.7
32.5°	7624.3	5902.6	1968.6	737.4	648.8	579.2	515.9	465.2	417.8	389.3	386.1
35°	7643.3	5725.4	1474.9	664.6	585.5	512.7	443.1	392.5	351.3	326.0	319.7
37.5°	7807.9	5646.3	1107.7	607.7	531.7	455.8	383.0	335.5	297.5	278.5	275.3
40°	8127.6	5662.1	870.4	563.4	487.4	398.8	329.2	284.8	256.4	240.5	237.4
42.5°	8624.5	5795.0	718.4	525.4	439.9	348.1	284.8	250.0	221.5	205.7	202.6
45°	9365.1	6070.4	626.7	481.1	389.3	300.7	246.9	215.2	189.9	170.9	167.7
47.5°	10438.0	6548.3	566.5	439.9	345.0	259.5	212.1	180.4	158.2	142.4	139.3
50°	11580.5	7121.1	515.9	398.8	307.0	224.7	180.4	148.8	129.8	113.9	110.8
52.5°	12799.0	7738.3	477.9	360.8	272.2	193.1	151.9	123.4	104.4	88.6	85.5
55°	13970.1	8358.6	433.6	335.5	231.0	164.6	126.6	101.3	82.3	69.6	69.6
57.5°	15109.4	8928.3	386.1	294.3	189.9	139.3	104.4	82.3	66.5	57.0	53.8
60°	16470.4	9716.4	332.3	250.0	158.2	117.1	85.5	66.5	53.8	44.3	44.3
62.5°	18492.8	10536.1	284.8	208.9	132.9	98.1	69.6	53.8	44.3	38.0	34.8
65°	19154.2	10093.0	240.5	170.9	107.6	79.1	57.0	47.5	38.0	34.8	31.6
67.5°	17388.2	8273.2	199.4	139.3	88.6	66.5	50.6	41.1	34.8	31.6	28.5
70°	13568.1	5871.0	155.1	104.4	72.8	53.8	44.3	38.0	31.6	28.5	28.5
72.5°	9229.0	3471.9	123.4	79.1	60.1	47.5	38.0	34.8	31.6	28.5	25.3
75°	4544.9	1234.3	94.9	60.1	47.5	41.1	34.8	31.6	28.5	25.3	25.3
77.5°	1224.8	341.8	72.8	47.5	38.0	31.6	31.6	31.6	28.5	22.2	22.2
80°	414.6	142.4	53.8	34.8	31.6	25.3	22.2	28.5	25.3	22.2	19.0
82.5°	227.9	69.6	38.0	28.5	22.2	19.0	19.0	19.0	19.0	15.8	15.8
85°	145.6	38.0	25.3	22.2	22.2	15.8	12.7	12.7	9.5	9.5	9.5
87.5°	66.5	22.2	22.2	19.0	19.0	15.8	9.5	6.3	3.2	3.2	3.2
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)