

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: P643228

Luminaire Tested: GWS-SA6E-740-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643228  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-740-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

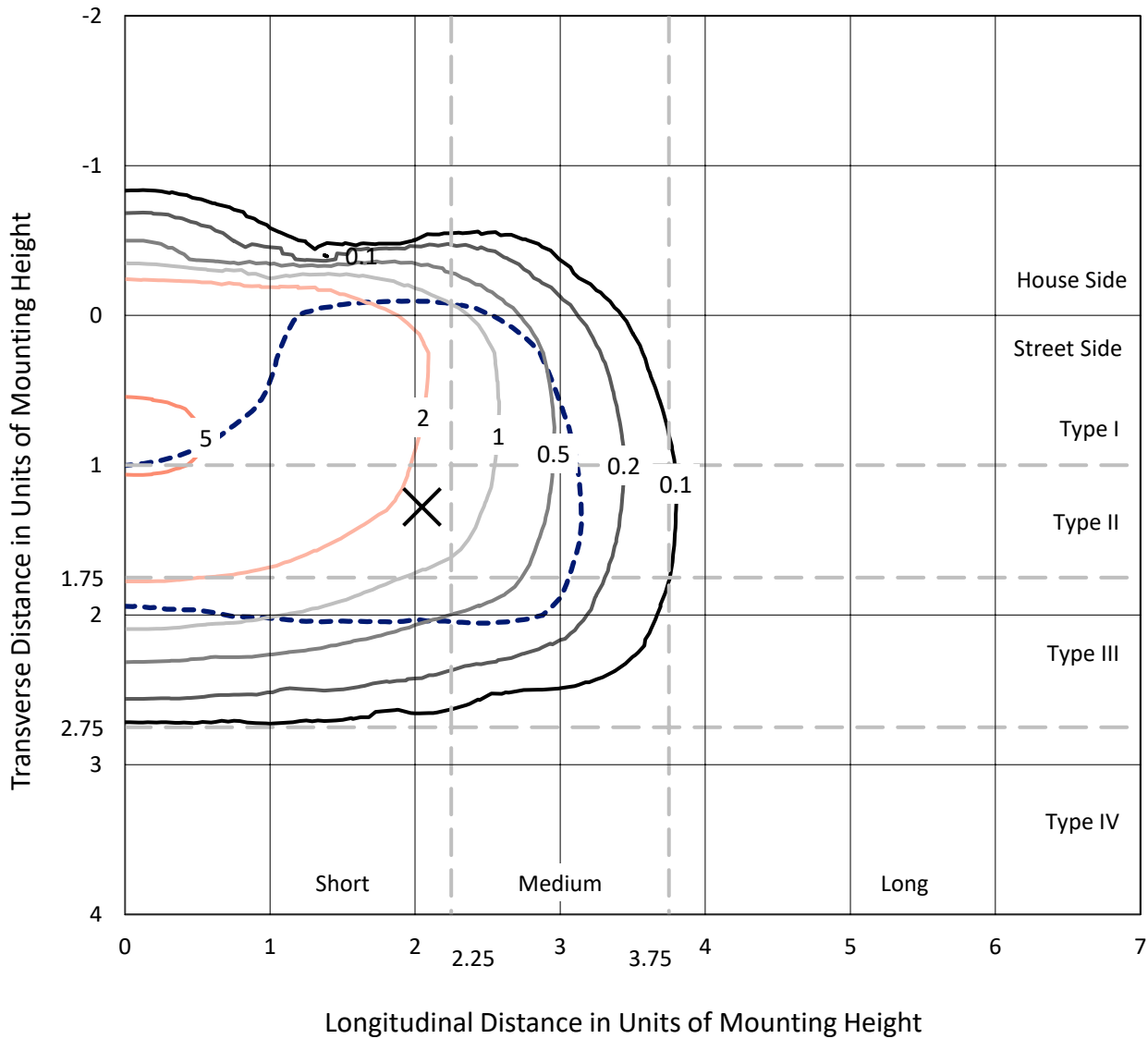
Lumens per Lamp: N/A  
Luminaire Lumens: 32863.8 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): 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

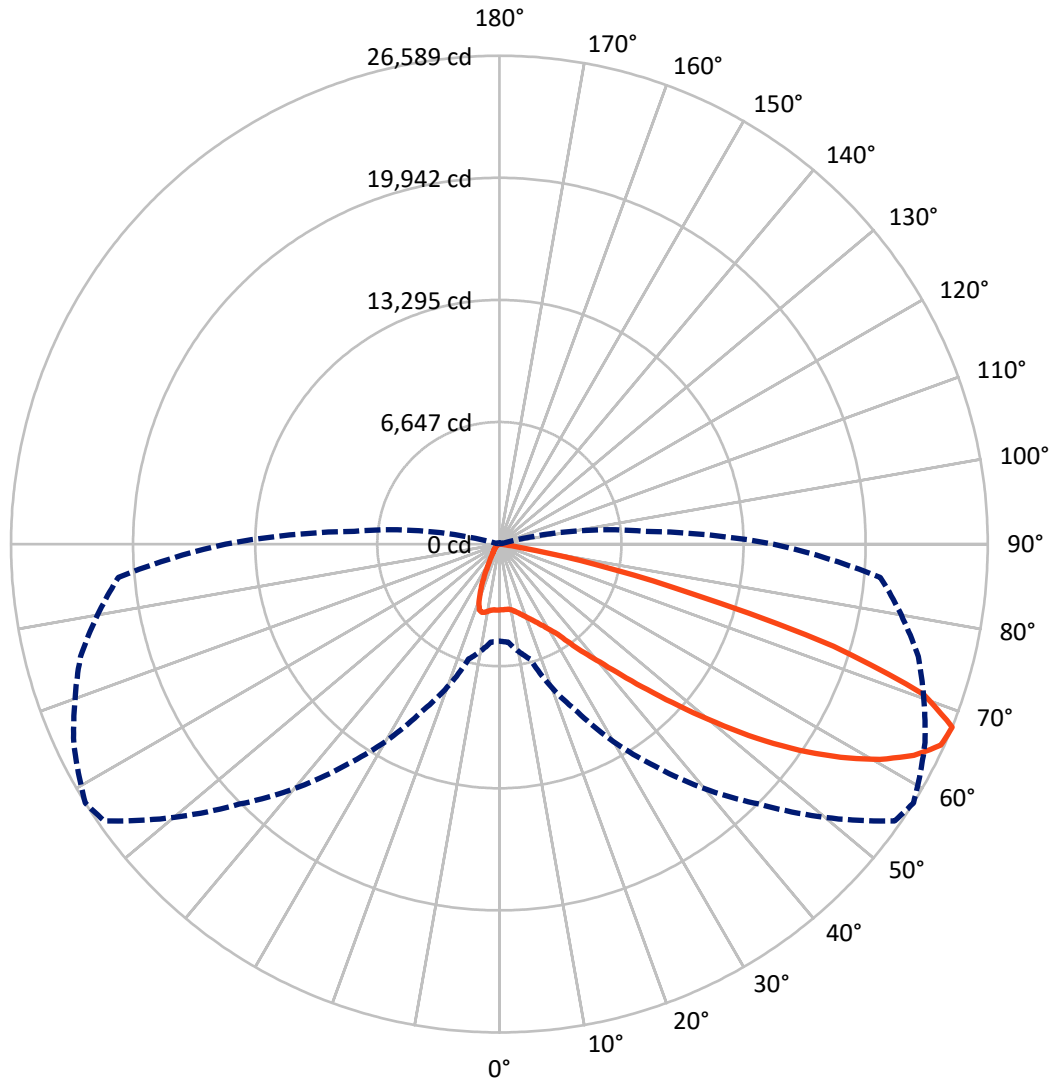
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 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	3585.3	0.0	3585.3
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	29278.4	0.0	29278.4
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	32863.8	0.0	32863.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.4	1.0
10°-20°	944.5	2.9
20°-30°	1648.7	5.0
30°-40°	2944.4	9.0
40°-50°	5381.8	16.4
50°-60°	8950.5	27.2
60°-70°	9721.8	29.6
70°-80°	2854.4	8.7
80°-90°	81.3	0.2
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°	32863.8	100.0
0°-180°	32863.8	100.0

**Coefficient of Utilization**



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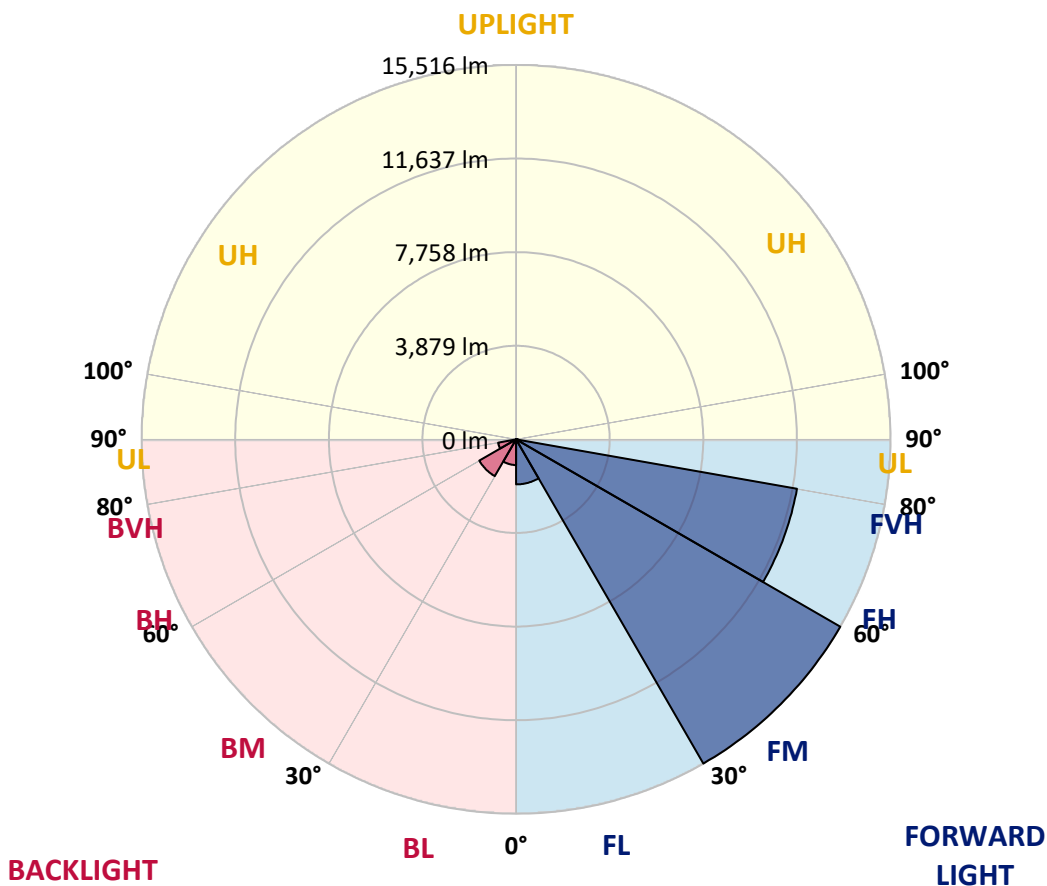
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1866.1	5.7			
FM (30°-60°)	15515.7	47.2			
FH (60°-80°)	11819.3	36.0			G4/12000
FVH (80°-90°)	77.3	0.2			G1/100
BL (0°-30°)	1063.5	3.2	B3/2500		
BM (30°-60°)	1761.0	5.4	B2/2500		
BH (60°-80°)	756.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.0	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3581.2	3581.2	3581.2	3581.2	3581.2	3581.2	3581.2	3581.2	3581.2	3581.2	3581.2
2.5°	3513.8	3507.4	3507.4	3533.0	3536.2	3549.1	3578.0	3581.2	3597.2	3590.8	3568.3
5°	3330.9	3334.1	3353.3	3398.3	3436.8	3484.9	3555.5	3571.5	3606.8	3626.1	3613.3
7.5°	3160.8	3164.0	3192.9	3263.5	3337.3	3433.6	3549.1	3581.2	3651.8	3703.1	3706.3
10°	3096.6	3093.4	3122.3	3202.5	3298.8	3433.6	3600.4	3642.1	3748.0	3837.9	3853.9
12.5°	3115.9	3112.7	3141.5	3215.4	3321.2	3491.3	3690.3	3748.0	3882.8	4020.8	4049.7
15°	3192.9	3189.7	3208.9	3269.9	3385.4	3561.9	3805.8	3892.4	4062.5	4229.4	4274.3
17.5°	3423.9	3407.9	3388.6	3395.1	3462.4	3645.4	3953.4	4059.3	4271.1	4470.0	4508.6
20°	3834.7	3793.0	3741.6	3674.2	3642.1	3767.3	4123.5	4245.4	4502.1	4730.0	4736.4
22.5°	4454.0	4438.0	4319.2	4123.5	3985.5	3988.7	4322.4	4463.6	4778.1	5028.4	4993.1
25°	5317.2	5307.6	5124.7	4803.8	4444.4	4322.4	4575.9	4720.3	5105.4	5371.8	5259.4
27.5°	6389.0	6321.6	6106.6	5673.4	5137.5	4755.6	4896.8	5025.2	5452.0	5702.3	5490.5
30°	7322.8	7326.0	7123.8	6671.4	6068.1	5407.1	5288.3	5400.6	5769.7	6032.8	5776.1
32.5°	8221.3	8250.2	8028.8	7621.2	6960.2	6257.4	5849.9	5869.1	6177.2	6462.8	6151.5
35°	9055.6	9078.1	8924.1	8577.5	7961.4	7146.3	6632.9	6623.2	6790.1	7082.1	6674.6
37.5°	9989.4	10011.9	9861.1	9549.8	8972.2	8163.5	7521.7	7508.9	7576.3	7813.8	7348.5
40°	10984.2	11025.9	10859.0	10595.9	10044.0	9360.5	8555.0	8439.5	8372.1	8651.3	8221.3
42.5°	11991.8	12056.0	11998.2	11735.1	11263.4	10698.6	9896.4	9716.7	9572.3	9922.0	9466.4
45°	13243.3	13320.3	13294.6	13092.5	12726.6	12267.8	11510.5	11301.9	11234.5	11558.6	11016.3
47.5°	14446.6	14530.1	14623.1	14578.2	14318.3	14106.5	13265.7	13147.0	13127.8	13474.3	12633.6
50°	15341.9	15418.9	15775.1	16031.8	16208.3	16163.4	15435.0	15258.5	15229.6	15451.0	14340.7
52.5°	15983.7	16057.5	16548.5	17350.7	17998.9	18351.9	17617.1	17578.6	17421.3	17344.3	15938.8
55°	16481.1	16583.8	17100.4	18313.4	19619.4	20402.4	19943.5	19805.6	19401.2	18958.4	17421.3
57.5°	16580.6	16622.3	17350.7	18987.3	20877.3	22144.9	22144.9	21904.2	21124.4	20511.5	19134.9
60°	15688.5	15816.8	16802.0	18932.7	21416.4	23284.0	23970.8	23803.9	22751.4	21997.3	20784.3
62.5°	13708.6	13853.0	15053.1	17626.7	20877.3	23518.3	25353.8	25328.1	24140.8	23226.3	22151.3
65°	10512.5	10618.4	11664.5	14745.1	18599.0	22616.6	26342.2	26412.8	25238.3	24038.1	22623.0
67.5°	5281.9	5355.7	6485.3	10072.8	14741.9	20020.6	26274.8	26589.2	25572.0	23608.1	20822.8
70°	1845.1	1918.9	2451.6	4322.4	8972.2	15287.4	24002.8	24516.3	23611.3	20152.1	15361.2
72.5°	632.2	667.5	1017.2	1604.5	3491.3	9062.0	18252.4	19025.8	17405.3	13528.9	8827.8
75°	359.4	381.9	545.5	869.6	1463.3	2981.1	10355.2	10830.2	10146.7	7374.1	3632.5
77.5°	243.9	263.1	340.1	494.2	808.7	959.5	4223.0	5317.2	4636.9	2406.7	927.4
80°	144.4	157.2	208.6	292.0	414.0	372.2	904.9	1203.4	1549.9	718.8	279.2
82.5°	67.4	77.0	134.8	192.5	208.6	157.2	266.3	324.1	436.4	353.0	115.5
85°	0.0	0.0	44.9	80.2	77.0	44.9	73.8	80.2	118.7	176.5	44.9
87.5°	0.0	0.0	0.0	0.0	0.0	3.2	6.4	9.6	19.3	35.3	19.3
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°	3581.2	3581.2	3581.2	3581.2	3581.2	3581.2	3581.2	3581.2	3581.2	3581.2	3581.2
2.5°	3594.0	3571.5	3597.2	3584.4	3597.2	3594.0	3568.3	3552.3	3552.3	3523.4	3513.8
5°	3638.9	3616.5	3622.9	3594.0	3587.6	3571.5	3539.5	3526.6	3526.6	3497.7	3488.1
7.5°	3738.4	3703.1	3696.7	3638.9	3613.3	3568.3	3510.6	3488.1	3484.9	3456.0	3446.4
10°	3895.6	3853.9	3825.1	3751.2	3677.4	3587.6	3465.7	3363.0	3305.2	3228.2	3221.8
12.5°	4088.2	4036.8	3991.9	3879.6	3757.7	3555.5	3196.1	2820.7	2589.6	2406.7	2419.5
15°	4303.2	4255.0	4184.5	4014.4	3764.1	3237.8	2486.9	1909.3	1626.9	1476.1	1469.7
17.5°	4537.4	4466.8	4351.3	4120.3	3561.9	2474.1	1617.3	1142.4	994.8	943.4	930.6
20°	4755.6	4669.0	4524.6	4142.7	2977.9	1675.1	1010.8	885.7	860.0	844.0	844.0
22.5°	4986.7	4877.6	4662.6	3969.5	2214.2	1071.8	860.0	831.1	811.9	789.4	786.2
25°	5220.9	5079.7	4787.7	3517.0	1450.4	844.0	805.4	773.4	738.1	702.8	693.1
27.5°	5419.9	5237.0	4884.0	2843.1	930.6	760.5	734.8	680.3	632.2	593.7	587.2
30°	5657.4	5423.1	4925.7	2079.4	731.6	670.7	632.2	574.4	516.6	478.1	465.3
32.5°	5975.0	5718.3	4861.5	1354.2	648.2	590.4	529.5	462.1	404.3	362.6	356.2
35°	6469.2	6164.4	4566.3	863.2	587.2	510.2	436.4	365.8	317.7	285.6	279.2
37.5°	7072.5	6790.1	4081.8	648.2	526.3	442.8	356.2	288.8	253.5	231.0	224.6
40°	7967.8	7573.1	3481.7	568.0	465.3	375.4	292.0	237.5	211.8	192.5	186.1
42.5°	9129.4	8497.3	2791.8	516.6	407.5	314.5	237.5	195.7	173.3	160.4	157.2
45°	10486.8	9399.0	2063.3	465.3	353.0	259.9	195.7	160.4	144.4	134.8	131.6
47.5°	11876.3	10188.4	1424.8	410.7	301.6	215.0	163.7	138.0	125.1	112.3	109.1
50°	13358.8	10855.8	972.3	356.2	256.7	176.5	141.2	125.1	109.1	99.5	96.3
52.5°	14446.6	11102.9	677.1	308.1	218.2	150.8	125.1	112.3	99.5	86.6	83.4
55°	15451.0	11096.5	513.4	259.9	186.1	131.6	112.3	99.5	86.6	77.0	73.8
57.5°	16452.2	11009.9	404.3	221.4	160.4	118.7	99.5	86.6	80.2	67.4	64.2
60°	17100.4	10682.5	314.5	186.1	138.0	102.7	86.6	77.0	67.4	57.8	54.6
62.5°	17443.8	10226.9	240.7	147.6	112.3	89.9	77.0	67.4	57.8	48.1	44.9
65°	16978.5	9418.2	189.3	115.5	86.6	77.0	64.2	54.6	44.9	35.3	32.1
67.5°	14915.1	7942.1	147.6	93.1	67.4	57.8	54.6	44.9	32.1	25.7	22.5
70°	10541.4	5439.1	115.5	70.6	51.3	44.9	41.7	35.3	25.7	19.3	16.0
72.5°	5785.7	2743.6	83.4	51.3	38.5	35.3	32.1	28.9	22.5	16.0	16.0
75°	2227.0	754.1	61.0	35.3	25.7	25.7	22.5	22.5	19.3	12.8	12.8
77.5°	580.8	224.6	38.5	22.5	16.0	16.0	16.0	12.8	12.8	9.6	9.6
80°	186.1	73.8	22.5	16.0	12.8	9.6	9.6	6.4	9.6	6.4	6.4
82.5°	61.0	25.7	12.8	12.8	9.6	6.4	6.4	3.2	3.2	0.0	0.0
85°	22.5	12.8	9.6	6.4	6.4	6.4	3.2	0.0	0.0	0.0	0.0
87.5°	12.8	6.4	6.4	6.4	6.4	3.2	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)