

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: P640808

Luminaire Tested: GWS-SA5E-750-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640808  
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-SA5E-750-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

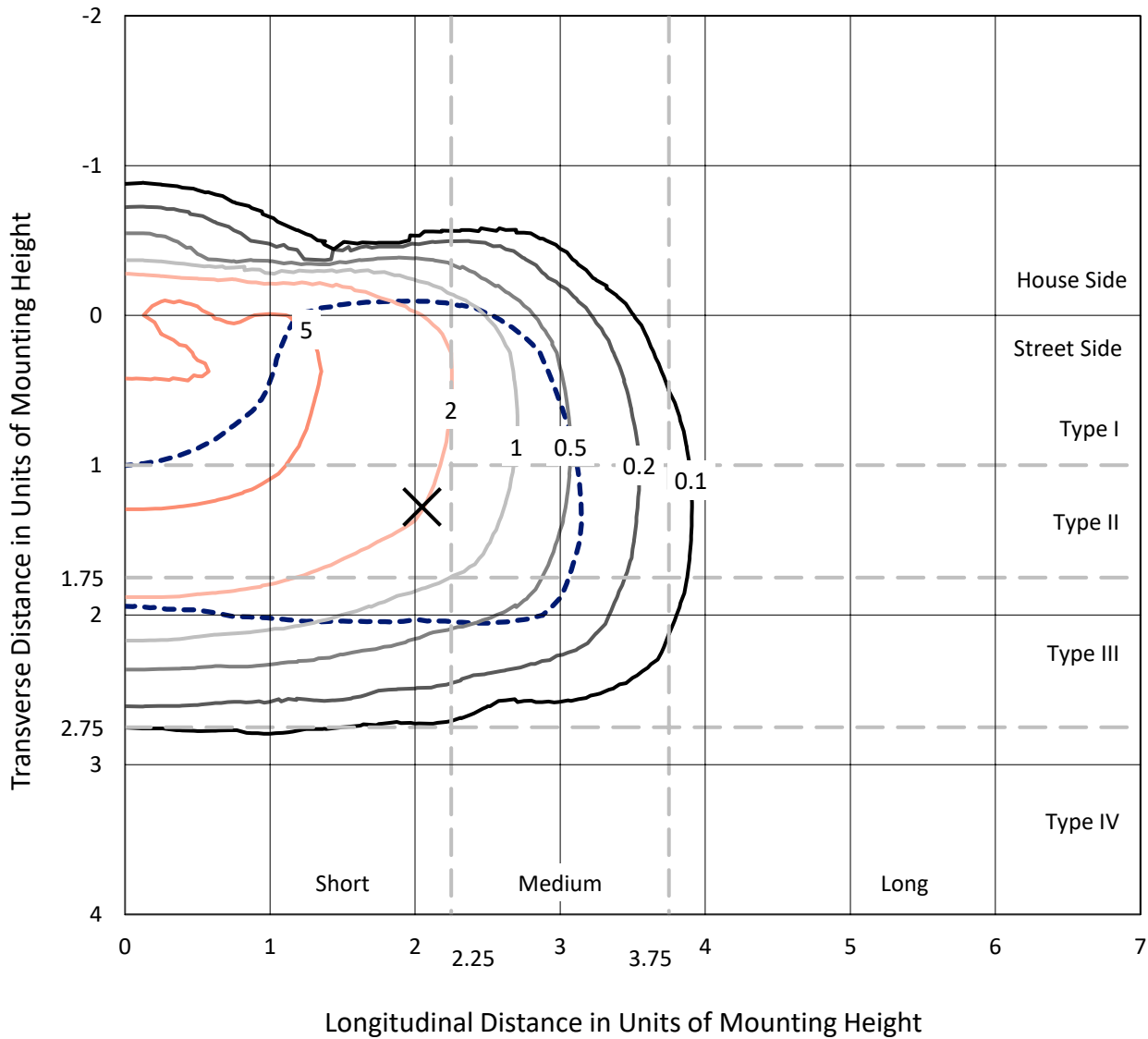
Lumens per Lamp: N/A  
Luminaire Lumens: 28191.9 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

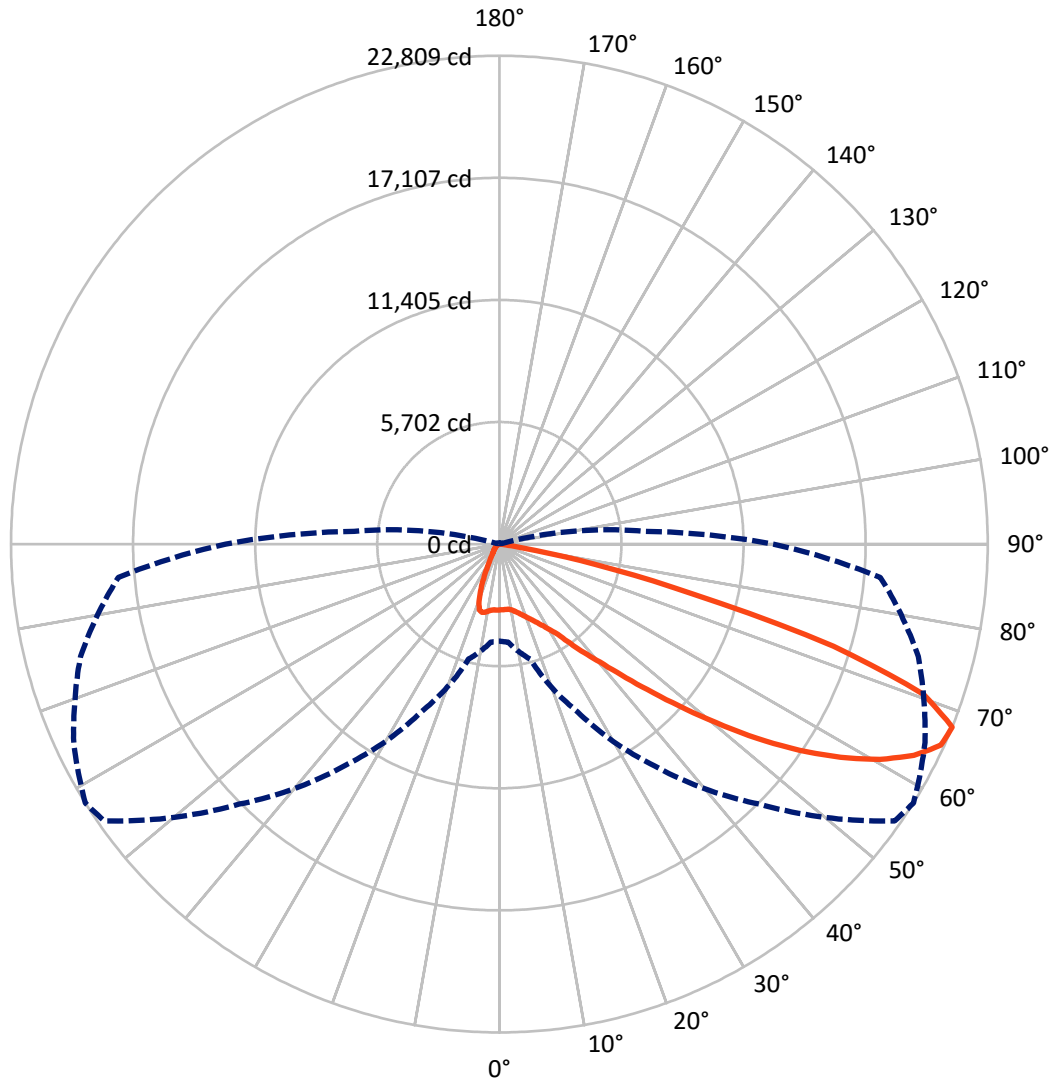
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P640808  
CATALOG NUMBER: GWS-SA5E-750-U-T3-W-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P640808

CATALOG NUMBER: GWS-SA5E-750-U-T3-W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3075.7	0.0	3075.7
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	25116.2	0.0	25116.2
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	28191.9	0.0	28191.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.6	1.0
10°-20°	810.3	2.9
20°-30°	1414.3	5.0
30°-40°	2525.8	9.0
40°-50°	4616.7	16.4
50°-60°	7678.1	27.2
60°-70°	8339.7	29.6
70°-80°	2448.6	8.7
80°-90°	69.7	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°	28191.9	100.0
0°-180°	28191.9	100.0

**Coefficient of Utilization**



REPORT NUMBER: P640808

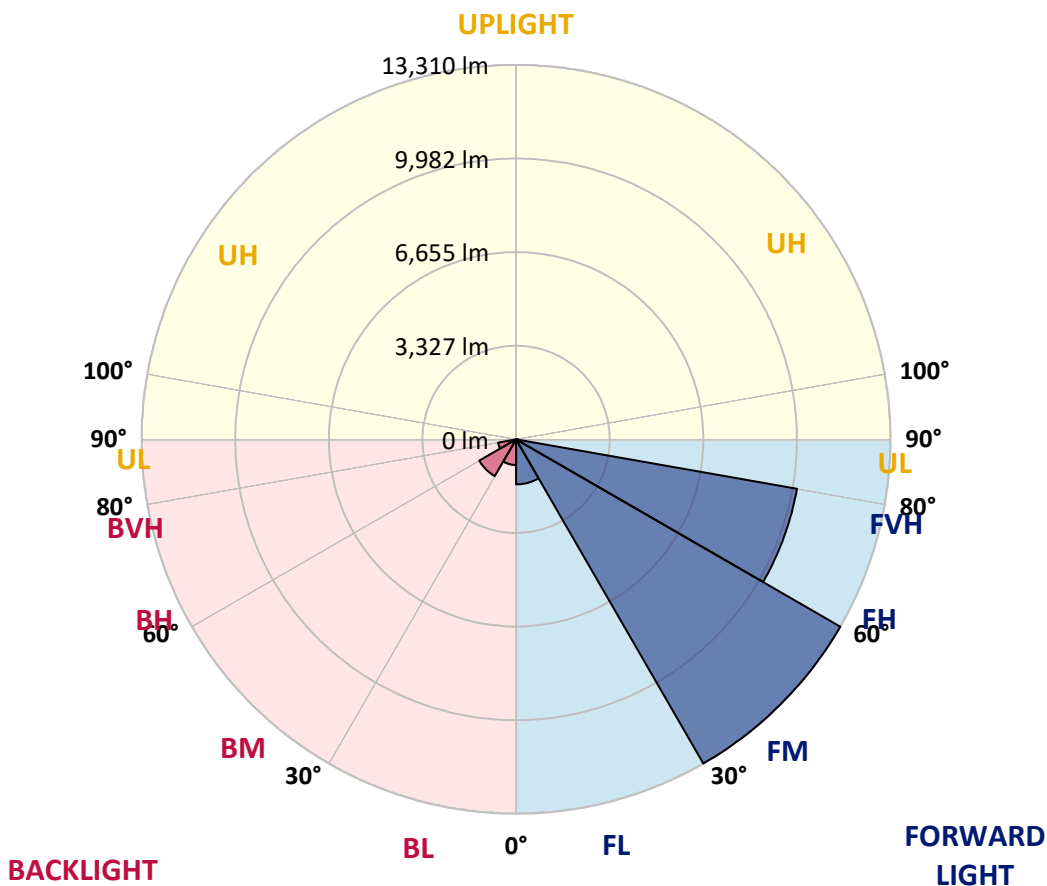
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1600.9	5.7			
FM (30°-60°)	13310.0	47.2			
FH (60°-80°)	10139.1	36.0			G4/12000
FVH (80°-90°)	66.3	0.2			G1/100
BL (0°-30°)	912.3	3.2	B2/1000		
BM (30°-60°)	1510.7	5.4	B2/2500		
BH (60°-80°)	649.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Short





REPORT NUMBER: P640808

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1
2.5°	3014.3	3008.8	3008.8	3030.8	3033.5	3044.5	3069.3	3072.1	3085.8	3080.3	3061.1
5°	2857.4	2860.1	2876.6	2915.2	2948.2	2989.5	3050.1	3063.8	3094.1	3110.6	3099.6
7.5°	2711.5	2714.2	2739.0	2799.6	2862.9	2945.4	3044.5	3072.1	3132.6	3176.7	3179.4
10°	2656.4	2653.7	2678.4	2747.2	2829.8	2945.4	3088.6	3124.4	3215.2	3292.3	3306.1
12.5°	2672.9	2670.2	2694.9	2758.3	2849.1	2995.0	3165.7	3215.2	3330.8	3449.2	3474.0
15°	2739.0	2736.2	2752.8	2805.1	2904.2	3055.6	3264.8	3339.1	3485.0	3628.1	3666.7
17.5°	2937.2	2923.4	2906.9	2912.4	2970.2	3127.1	3391.4	3482.2	3663.9	3834.6	3867.6
20°	3289.5	3253.8	3209.7	3151.9	3124.4	3231.7	3537.3	3641.9	3862.1	4057.6	4063.1
22.5°	3820.8	3807.1	3705.2	3537.3	3418.9	3421.7	3708.0	3829.1	4098.9	4313.6	4283.3
25°	4561.3	4553.1	4396.2	4120.9	3812.6	3708.0	3925.4	4049.3	4379.6	4608.1	4511.8
27.5°	5480.7	5422.9	5238.5	4866.9	4407.2	4079.6	4200.7	4310.8	4676.9	4891.6	4710.0
30°	6281.8	6284.5	6111.1	5723.0	5205.5	4638.4	4536.5	4632.9	4949.5	5175.2	4955.0
32.5°	7052.6	7077.3	6887.4	6537.8	5970.7	5367.9	5018.3	5034.8	5299.1	5544.0	5277.0
35°	7768.3	7787.5	7655.4	7358.1	6829.6	6130.4	5689.9	5681.7	5824.8	6075.3	5725.7
37.5°	8569.3	8588.6	8459.2	8192.2	7696.7	7003.0	6452.5	6441.4	6499.3	6703.0	6303.8
40°	9422.7	9458.5	9315.3	9089.6	8616.1	8029.8	7338.8	7239.7	7181.9	7421.4	7052.6
42.5°	10287.0	10342.1	10292.6	10066.8	9662.2	9177.7	8489.5	8335.3	8211.5	8511.5	8120.6
45°	11360.6	11426.7	11404.7	11231.2	10917.4	10523.8	9874.1	9695.2	9637.4	9915.4	9450.2
47.5°	12392.9	12464.5	12544.3	12505.8	12282.8	12101.1	11379.9	11278.0	11261.5	11558.8	10837.6
50°	13160.9	13227.0	13532.5	13752.8	13904.2	13865.6	13240.8	13089.4	13064.6	13254.5	12302.1
52.5°	13711.5	13774.8	14196.0	14884.1	15440.2	15743.0	15112.6	15079.6	14944.7	14878.6	13672.9
55°	14138.2	14226.2	14669.4	15710.0	16830.3	17502.0	17108.4	16990.0	16643.2	16263.3	14944.7
57.5°	14223.5	14259.3	14884.1	16288.1	17909.4	18996.8	18996.8	18790.3	18121.4	17595.6	16414.7
60°	13458.2	13568.3	14413.4	16241.3	18371.9	19974.0	20563.1	20419.9	19517.0	18870.1	17829.6
62.5°	11759.8	11883.6	12913.2	15120.9	17909.4	20174.9	21749.5	21727.5	20709.0	19924.4	19002.3
65°	9018.0	9108.9	10006.3	12648.9	15955.0	19401.4	22597.4	22657.9	21650.4	20620.9	19406.9
67.5°	4531.0	4594.3	5563.3	8640.9	12646.2	17174.4	22539.6	22809.3	21936.7	20252.0	17862.6
70°	1582.8	1646.1	2103.1	3708.0	7696.7	13114.1	20590.6	21031.0	20254.8	17287.3	13177.4
72.5°	542.3	572.6	872.6	1376.4	2995.0	7773.8	15657.7	16321.1	14930.9	11605.6	7572.8
75°	308.3	327.6	468.0	746.0	1255.3	2557.3	8883.1	9290.5	8704.2	6325.8	3116.1
77.5°	209.2	225.7	291.8	423.9	693.7	823.1	3622.6	4561.3	3977.7	2064.6	795.5
80°	123.9	134.9	178.9	250.5	355.1	319.3	776.3	1032.3	1329.6	616.6	239.5
82.5°	57.8	66.1	115.6	165.2	178.9	134.9	228.5	278.0	374.4	302.8	99.1
85°	0.0	0.0	38.5	68.8	66.1	38.5	63.3	68.8	101.9	151.4	38.5
87.5°	0.0	0.0	0.0	0.0	0.0	2.8	5.5	8.3	16.5	30.3	16.5
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°	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1
2.5°	3083.1	3063.8	3085.8	3074.8	3085.8	3083.1	3061.1	3047.3	3047.3	3022.5	3014.3
5°	3121.6	3102.4	3107.9	3083.1	3077.6	3063.8	3036.3	3025.3	3025.3	3000.5	2992.2
7.5°	3207.0	3176.7	3171.2	3121.6	3099.6	3061.1	3011.5	2992.2	2989.5	2964.7	2956.5
10°	3341.8	3306.1	3281.3	3218.0	3154.7	3077.6	2973.0	2884.9	2835.3	2769.3	2763.8
12.5°	3507.0	3463.0	3424.4	3328.1	3223.5	3050.1	2741.7	2419.7	2221.5	2064.6	2075.6
15°	3691.4	3650.2	3589.6	3443.7	3229.0	2777.5	2133.4	1637.9	1395.6	1266.3	1260.8
17.5°	3892.4	3831.8	3732.7	3534.5	3055.6	2122.4	1387.4	980.0	853.4	809.3	798.3
20°	4079.6	4005.3	3881.4	3553.8	2554.6	1436.9	867.1	759.8	737.7	724.0	724.0
22.5°	4277.8	4184.2	3999.8	3405.2	1899.4	919.4	737.7	713.0	696.4	677.2	674.4
25°	4478.7	4357.6	4107.1	3017.0	1244.2	724.0	690.9	663.4	633.1	602.9	594.6
27.5°	4649.4	4492.5	4189.7	2438.9	798.3	652.4	630.4	583.6	542.3	509.3	503.8
30°	4853.1	4652.2	4225.5	1783.8	627.6	575.3	542.3	492.7	443.2	410.2	399.1
32.5°	5125.6	4905.4	4170.4	1161.7	556.1	506.5	454.2	396.4	346.8	311.1	305.6
35°	5549.6	5288.0	3917.2	740.5	503.8	437.7	374.4	313.8	272.5	245.0	239.5
37.5°	6067.1	5824.8	3501.5	556.1	451.5	379.9	305.6	247.7	217.5	198.2	192.7
40°	6835.1	6496.5	2986.7	487.2	399.1	322.1	250.5	203.7	181.7	165.2	159.7
42.5°	7831.6	7289.3	2394.9	443.2	349.6	269.8	203.7	167.9	148.6	137.6	134.9
45°	8996.0	8062.8	1770.0	399.1	302.8	223.0	167.9	137.6	123.9	115.6	112.9
47.5°	10187.9	8740.0	1222.2	352.4	258.8	184.4	140.4	118.4	107.4	96.3	93.6
50°	11459.7	9312.6	834.1	305.6	220.2	151.4	121.1	107.4	93.6	85.3	82.6
52.5°	12392.9	9524.5	580.8	264.3	187.2	129.4	107.4	96.3	85.3	74.3	71.6
55°	13254.5	9519.0	440.4	223.0	159.7	112.9	96.3	85.3	74.3	66.1	63.3
57.5°	14113.4	9444.7	346.8	189.9	137.6	101.9	85.3	74.3	68.8	57.8	55.1
60°	14669.4	9163.9	269.8	159.7	118.4	88.1	74.3	66.1	57.8	49.5	46.8
62.5°	14964.0	8773.0	206.5	126.6	96.3	77.1	66.1	57.8	49.5	41.3	38.5
65°	14564.8	8079.3	162.4	99.1	74.3	66.1	55.1	46.8	38.5	30.3	27.5
67.5°	12794.8	6813.1	126.6	79.8	57.8	49.5	46.8	38.5	27.5	22.0	19.3
70°	9042.8	4665.9	99.1	60.6	44.0	38.5	35.8	30.3	22.0	16.5	13.8
72.5°	4963.2	2353.6	71.6	44.0	33.0	30.3	27.5	24.8	19.3	13.8	13.8
75°	1910.4	646.9	52.3	30.3	22.0	22.0	19.3	19.3	16.5	11.0	11.0
77.5°	498.2	192.7	33.0	19.3	13.8	13.8	13.8	11.0	11.0	8.3	8.3
80°	159.7	63.3	19.3	13.8	11.0	8.3	8.3	5.5	8.3	5.5	5.5
82.5°	52.3	22.0	11.0	11.0	8.3	5.5	5.5	2.8	2.8	0.0	0.0
85°	19.3	11.0	8.3	5.5	5.5	5.5	2.8	0.0	0.0	0.0	0.0
87.5°	11.0	5.5	5.5	5.5	5.5	2.8	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)