

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: P638333

Luminaire Tested: GWS-SA4E-750-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638333  
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-SA4E-750-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

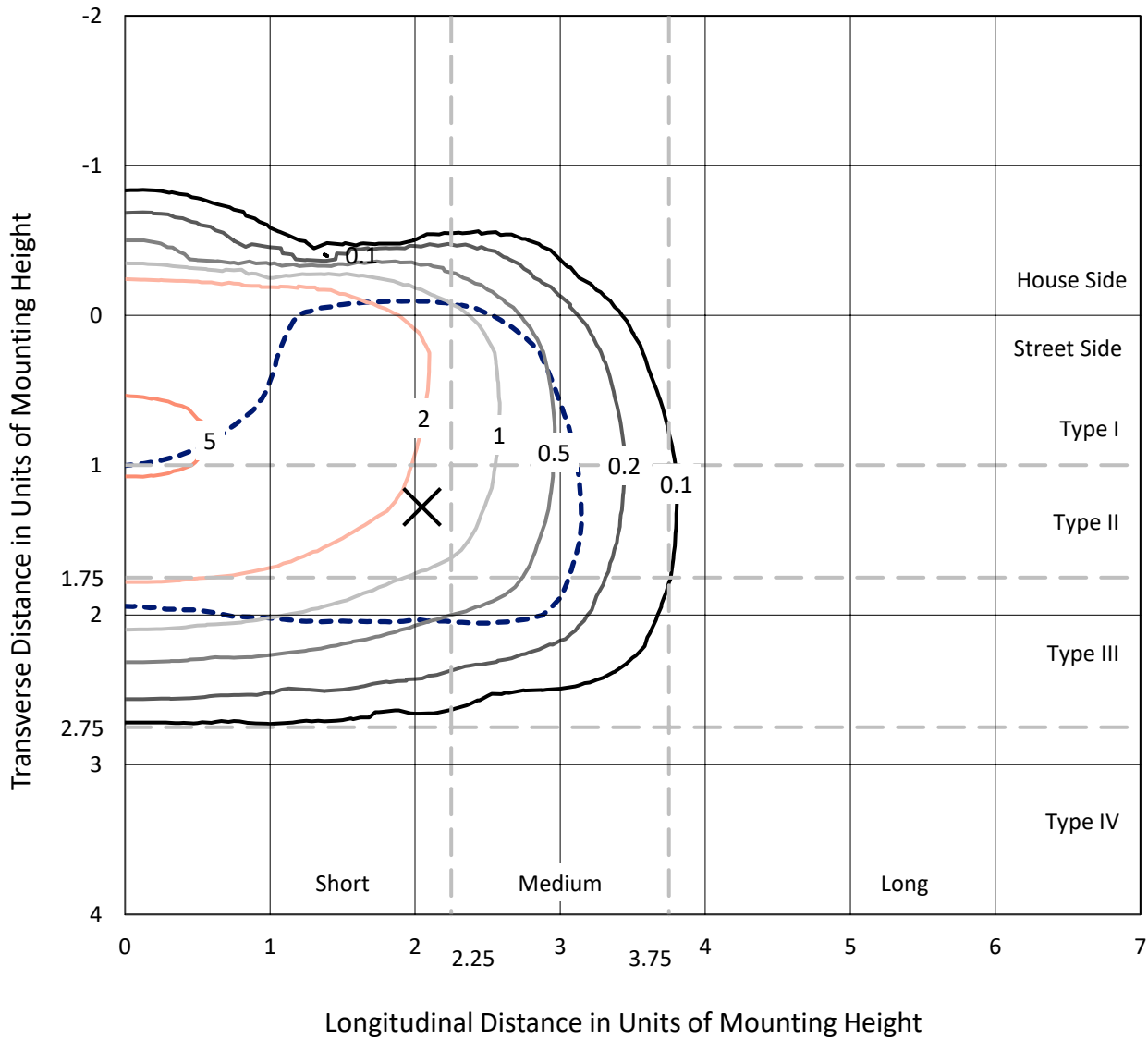
Lumens per Lamp: N/A  
Luminaire Lumens: 22981.7 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): 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

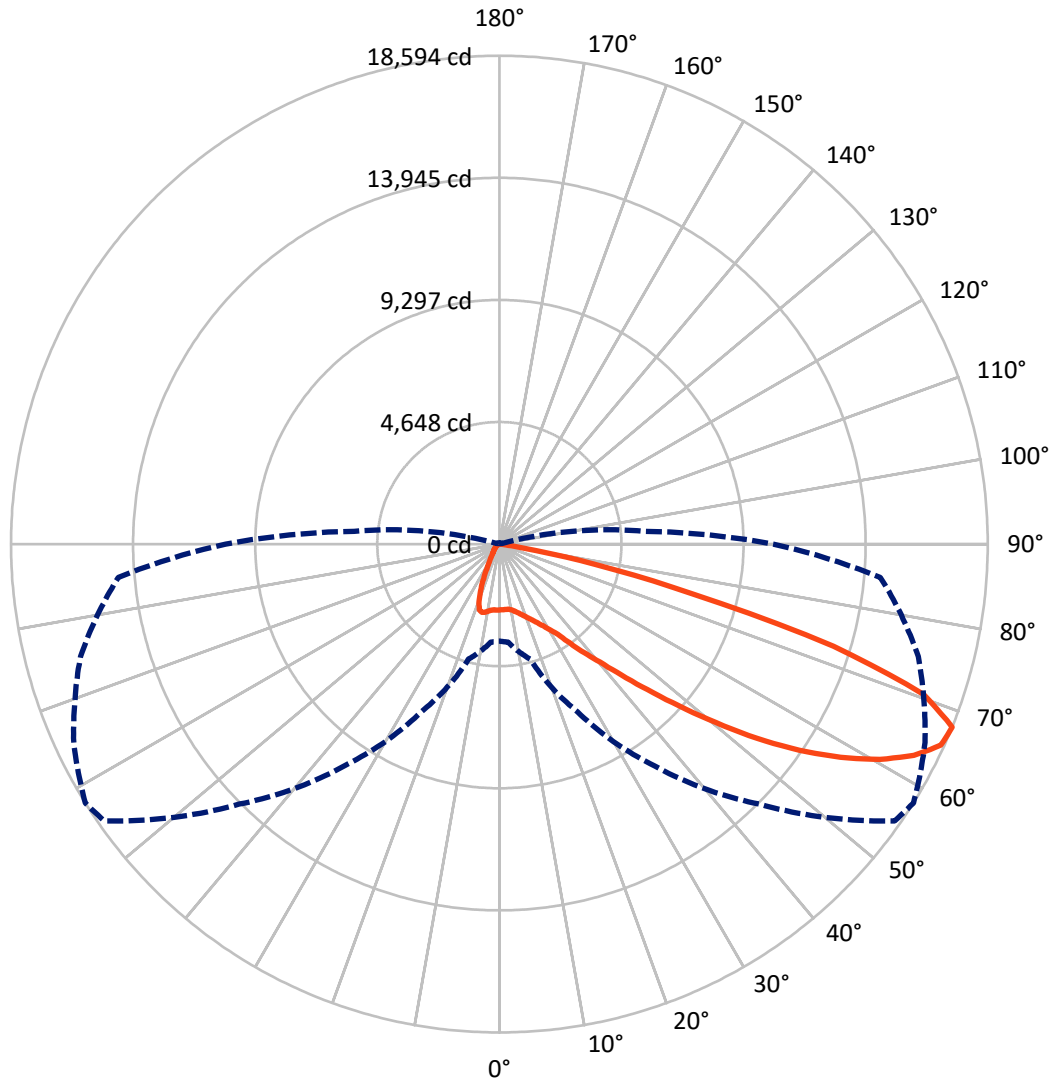
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	2507.2	0.0	2507.2
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	20474.5	0.0	20474.5
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	22981.7	0.0	22981.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.2	1.0
10°-20°	660.5	2.9
20°-30°	1153.0	5.0
30°-40°	2059.0	9.0
40°-50°	3763.5	16.4
50°-60°	6259.1	27.2
60°-70°	6798.4	29.6
70°-80°	1996.1	8.7
80°-90°	56.8	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°	22981.7	100.0
0°-180°	22981.7	100.0

**Coefficient of Utilization**



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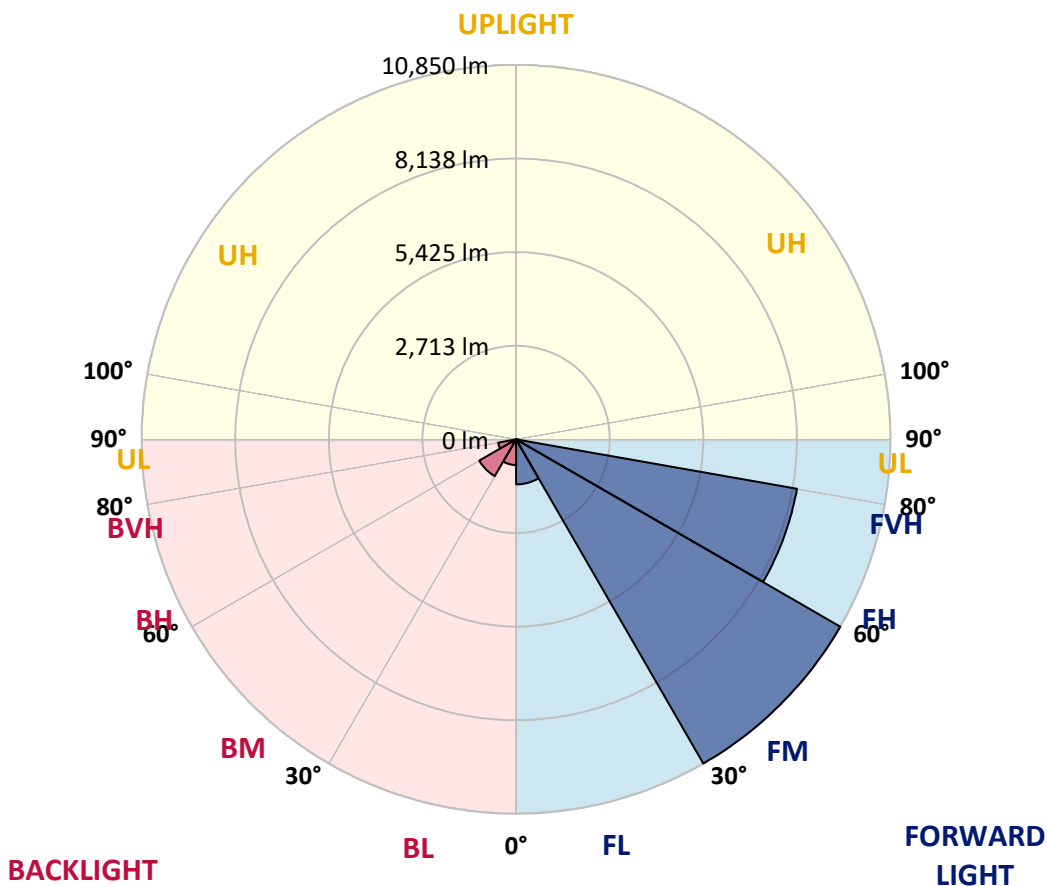
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1305.0	5.7			
FM (30°-60°)	10850.1	47.2			
FH (60°-80°)	8265.3	36.0			G4/12000
FVH (80°-90°)	54.1	0.2			G1/100
BL (0°-30°)	743.7	3.2	B2/1000		
BM (30°-60°)	1231.5	5.4	B2/2500		
BH (60°-80°)	529.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	2.8	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3
2.5°	2457.2	2452.7	2452.7	2470.7	2472.9	2481.9	2502.1	2504.3	2515.5	2511.1	2495.3
5°	2329.3	2331.5	2345.0	2376.4	2403.3	2437.0	2486.4	2497.6	2522.3	2535.7	2526.8
7.5°	2210.4	2212.6	2232.8	2282.2	2333.8	2401.1	2481.9	2504.3	2553.7	2589.6	2591.8
10°	2165.5	2163.2	2183.4	2239.5	2306.8	2401.1	2517.8	2547.0	2621.0	2683.8	2695.1
12.5°	2178.9	2176.7	2196.9	2248.5	2322.6	2441.5	2580.6	2621.0	2715.3	2811.7	2831.9
15°	2232.8	2230.5	2244.0	2286.6	2367.4	2490.9	2661.4	2722.0	2840.9	2957.6	2989.0
17.5°	2394.4	2383.1	2369.7	2374.2	2421.3	2549.2	2764.6	2838.7	2986.8	3125.9	3152.8
20°	2681.6	2652.4	2616.5	2569.4	2547.0	2634.5	2883.6	2968.8	3148.4	3307.7	3312.2
22.5°	3114.7	3103.5	3020.4	2883.6	2787.1	2789.3	3022.7	3121.4	3341.3	3516.4	3491.7
25°	3718.3	3711.6	3583.7	3359.3	3108.0	3022.7	3200.0	3300.9	3570.2	3756.5	3677.9
27.5°	4467.8	4420.7	4270.4	3967.4	3592.7	3325.6	3424.4	3514.1	3812.6	3987.6	3839.5
30°	5120.8	5123.1	4981.7	4665.3	4243.4	3781.2	3698.1	3776.7	4034.7	4218.7	4039.2
32.5°	5749.2	5769.4	5614.5	5329.5	4867.3	4375.8	4090.8	4104.3	4319.7	4519.4	4301.8
35°	6332.6	6348.3	6240.6	5998.2	5567.4	4997.4	4638.4	4631.6	4748.3	4952.5	4667.5
37.5°	6985.6	7001.3	6895.9	6678.2	6274.3	5708.8	5260.0	5251.0	5298.1	5464.2	5138.8
40°	7681.3	7710.4	7593.7	7409.7	7023.8	6545.8	5982.5	5901.8	5854.6	6049.9	5749.2
42.5°	8385.9	8430.8	8390.4	8206.4	7876.5	7481.5	6920.5	6794.9	6693.9	6938.5	6619.8
45°	9261.0	9314.9	9296.9	9155.6	8899.8	8578.9	8049.3	7903.4	7856.3	8082.9	7703.7
47.5°	10102.5	10160.9	10226.0	10194.6	10012.8	9864.7	9276.8	9193.7	9180.3	9422.6	8834.7
50°	10728.6	10782.5	11031.6	11211.1	11334.5	11303.1	10793.7	10670.3	10650.1	10804.9	10028.5
52.5°	11177.4	11229.0	11572.4	12133.4	12586.7	12833.5	12319.6	12292.7	12182.7	12128.9	11146.0
55°	11525.3	11597.1	11958.3	12806.6	13719.9	14267.4	13946.5	13850.0	13567.3	13257.6	12182.7
57.5°	11594.8	11624.0	12133.4	13277.8	14599.5	15485.9	15485.9	15317.6	14772.3	14343.7	13381.1
60°	10971.0	11060.7	11749.7	13239.7	14976.5	16282.6	16762.8	16646.1	15910.1	15382.7	14534.5
62.5°	9586.4	9687.4	10526.7	12326.4	14599.5	16446.4	17729.9	17712.0	16881.7	16242.2	15490.4
65°	7351.4	7425.4	8157.0	10311.2	13006.3	15815.8	18421.1	18470.5	17649.2	16809.9	15820.3
67.5°	3693.6	3745.3	4535.2	7044.0	10309.0	14000.4	18374.0	18593.9	17882.5	16509.2	14561.4
70°	1290.3	1341.9	1714.4	3022.7	6274.3	10690.5	16785.2	17144.3	16511.4	14092.4	10742.1
72.5°	442.1	466.8	711.4	1122.0	2441.5	6337.1	12763.9	13304.8	12171.5	9460.8	6173.3
75°	251.3	267.0	381.5	608.1	1023.3	2084.7	7241.4	7573.5	7095.6	5156.7	2540.2
77.5°	170.5	184.0	237.9	345.6	565.5	671.0	2953.1	3718.3	3242.6	1683.0	648.5
80°	101.0	110.0	145.9	204.2	289.5	260.3	632.8	841.5	1083.9	502.7	195.2
82.5°	47.1	53.9	94.2	134.6	145.9	110.0	186.3	226.6	305.2	246.8	80.8
85°	0.0	0.0	31.4	56.1	53.9	31.4	51.6	56.1	83.0	123.4	31.4
87.5°	0.0	0.0	0.0	0.0	0.0	2.2	4.5	6.7	13.5	24.7	13.5
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°	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3
2.5°	2513.3	2497.6	2515.5	2506.6	2515.5	2513.3	2495.3	2484.1	2484.1	2463.9	2457.2
5°	2544.7	2529.0	2533.5	2513.3	2508.8	2497.6	2475.1	2466.2	2466.2	2446.0	2439.2
7.5°	2614.3	2589.6	2585.1	2544.7	2526.8	2495.3	2455.0	2439.2	2437.0	2416.8	2410.1
10°	2724.2	2695.1	2674.9	2623.3	2571.6	2508.8	2423.5	2351.7	2311.3	2257.5	2253.0
12.5°	2858.9	2823.0	2791.6	2713.0	2627.7	2486.4	2235.0	1972.5	1810.9	1683.0	1692.0
15°	3009.2	2975.6	2926.2	2807.3	2632.2	2264.2	1739.1	1335.2	1137.7	1032.2	1027.8
17.5°	3173.0	3123.7	3042.9	2881.3	2490.9	1730.1	1131.0	798.9	695.6	659.7	650.8
20°	3325.6	3265.0	3164.1	2897.0	2082.4	1171.4	706.9	619.3	601.4	590.2	590.2
22.5°	3487.2	3410.9	3260.6	2775.8	1548.4	749.5	601.4	581.2	567.7	552.0	549.8
25°	3651.0	3552.3	3348.1	2459.4	1014.3	590.2	563.2	540.8	516.1	491.4	484.7
27.5°	3790.1	3662.2	3415.4	1988.2	650.8	531.8	513.9	475.7	442.1	415.1	410.7
30°	3956.2	3792.4	3444.6	1454.1	511.6	469.0	442.1	401.7	361.3	334.4	325.4
32.5°	4178.4	3998.8	3399.7	947.0	453.3	412.9	370.3	323.1	282.7	253.6	249.1
35°	4523.9	4310.7	3193.2	603.6	410.7	356.8	305.2	255.8	222.2	199.7	195.2
37.5°	4945.8	4748.3	2854.4	453.3	368.0	309.7	249.1	202.0	177.3	161.6	157.1
40°	5571.9	5295.9	2434.8	397.2	325.4	262.5	204.2	166.1	148.1	134.6	130.2
42.5°	6384.2	5942.1	1952.3	361.3	285.0	219.9	166.1	136.9	121.2	112.2	110.0
45°	7333.4	6572.7	1442.9	325.4	246.8	181.8	136.9	112.2	101.0	94.2	92.0
47.5°	8305.1	7124.7	996.3	287.2	210.9	150.3	114.4	96.5	87.5	78.5	76.3
50°	9341.8	7591.5	679.9	249.1	179.5	123.4	98.7	87.5	76.3	69.6	67.3
52.5°	10102.5	7764.3	473.5	215.4	152.6	105.5	87.5	78.5	69.6	60.6	58.3
55°	10804.9	7759.8	359.0	181.8	130.2	92.0	78.5	69.6	60.6	53.9	51.6
57.5°	11505.1	7699.2	282.7	154.8	112.2	83.0	69.6	60.6	56.1	47.1	44.9
60°	11958.3	7470.3	219.9	130.2	96.5	71.8	60.6	53.9	47.1	40.4	38.1
62.5°	12198.5	7151.7	168.3	103.2	78.5	62.8	53.9	47.1	40.4	33.7	31.4
65°	11873.1	6586.2	132.4	80.8	60.6	53.9	44.9	38.1	31.4	24.7	22.4
67.5°	10430.2	5553.9	103.2	65.1	47.1	40.4	38.1	31.4	22.4	18.0	15.7
70°	7371.6	3803.6	80.8	49.4	35.9	31.4	29.2	24.7	18.0	13.5	11.2
72.5°	4046.0	1918.6	58.3	35.9	26.9	24.7	22.4	20.2	15.7	11.2	11.2
75°	1557.3	527.3	42.6	24.7	18.0	18.0	15.7	15.7	13.5	9.0	9.0
77.5°	406.2	157.1	26.9	15.7	11.2	11.2	11.2	9.0	9.0	6.7	6.7
80°	130.2	51.6	15.7	11.2	9.0	6.7	6.7	4.5	6.7	4.5	4.5
82.5°	42.6	18.0	9.0	9.0	6.7	4.5	4.5	2.2	2.2	0.0	0.0
85°	15.7	9.0	6.7	4.5	4.5	4.5	2.2	0.0	0.0	0.0	0.0
87.5°	9.0	4.5	4.5	4.5	4.5	2.2	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)