

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: P637652

Luminaire Tested: GWS-SA4D-730-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637652  
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-SA4D-730-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

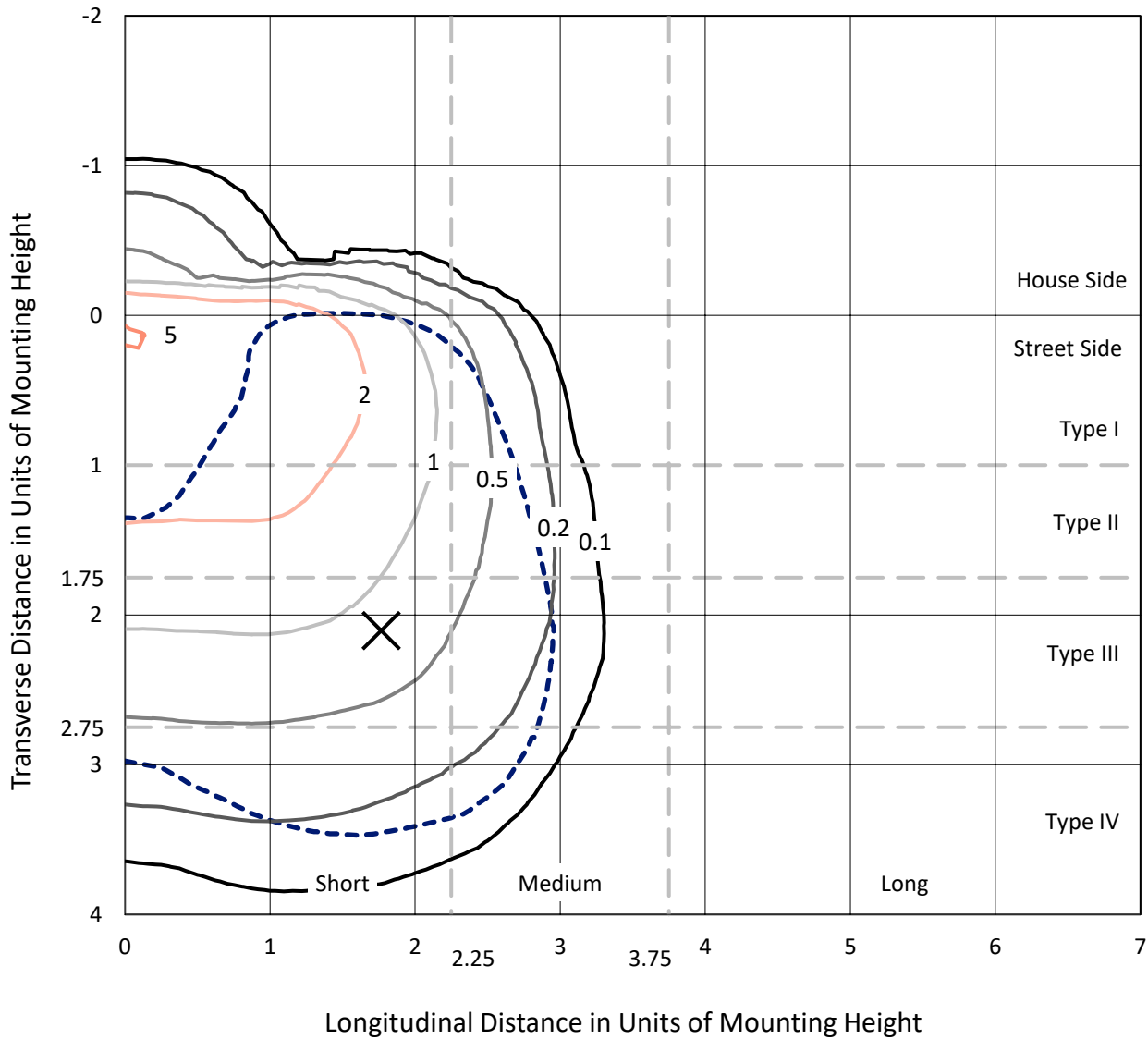
Lumens per Lamp: N/A  
Luminaire Lumens: 17570.5 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

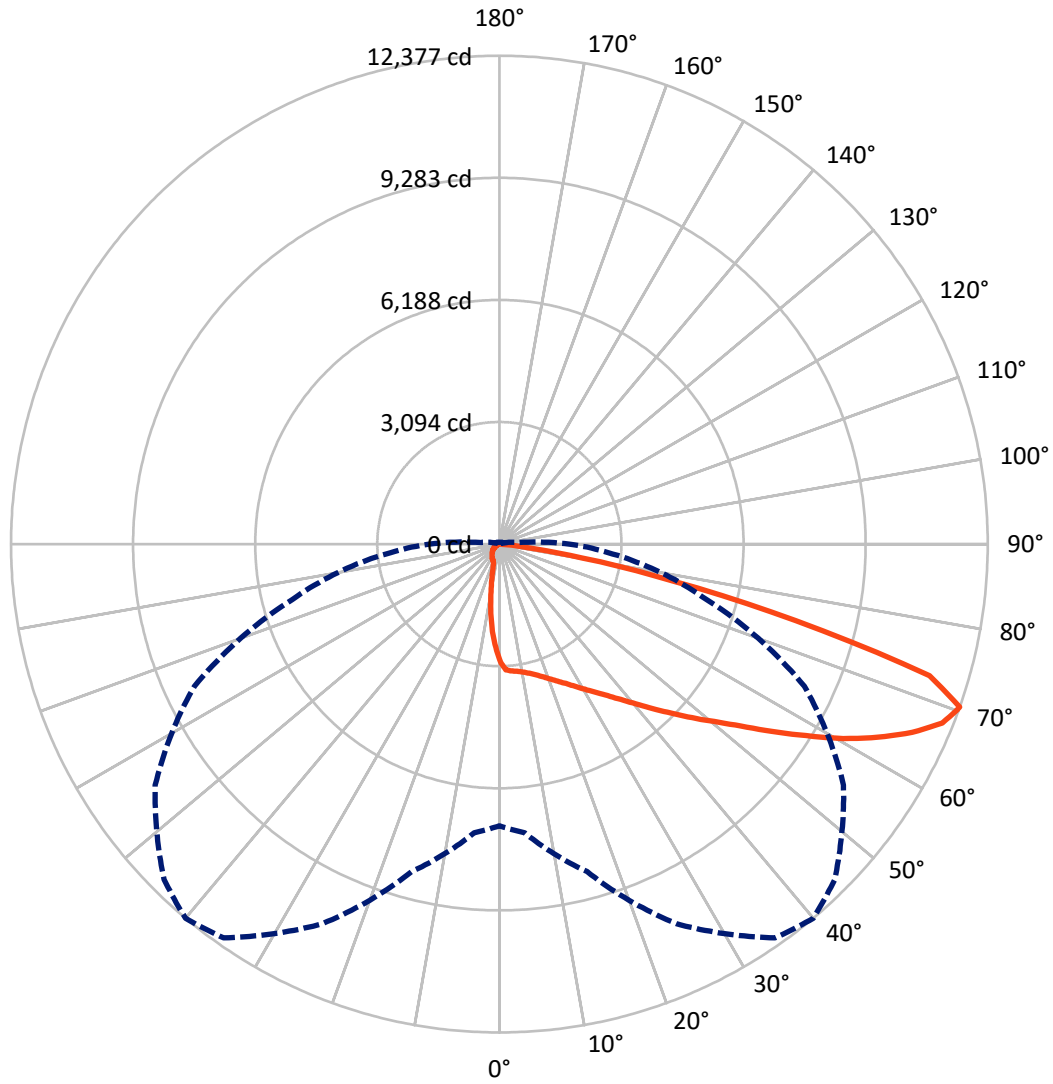
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	1436.8	0.0	1436.8
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	16133.7	0.0	16133.7
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	17570.5	0.0	17570.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.0	1.4
10°-20°	639.1	3.6
20°-30°	1069.7	6.1
30°-40°	1680.1	9.6
40°-50°	2657.5	15.1
50°-60°	3876.6	22.1
60°-70°	4805.6	27.4
70°-80°	2431.3	13.8
80°-90°	158.7	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°	17570.5	100.0
0°-180°	17570.5	100.0

**Coefficient of Utilization**



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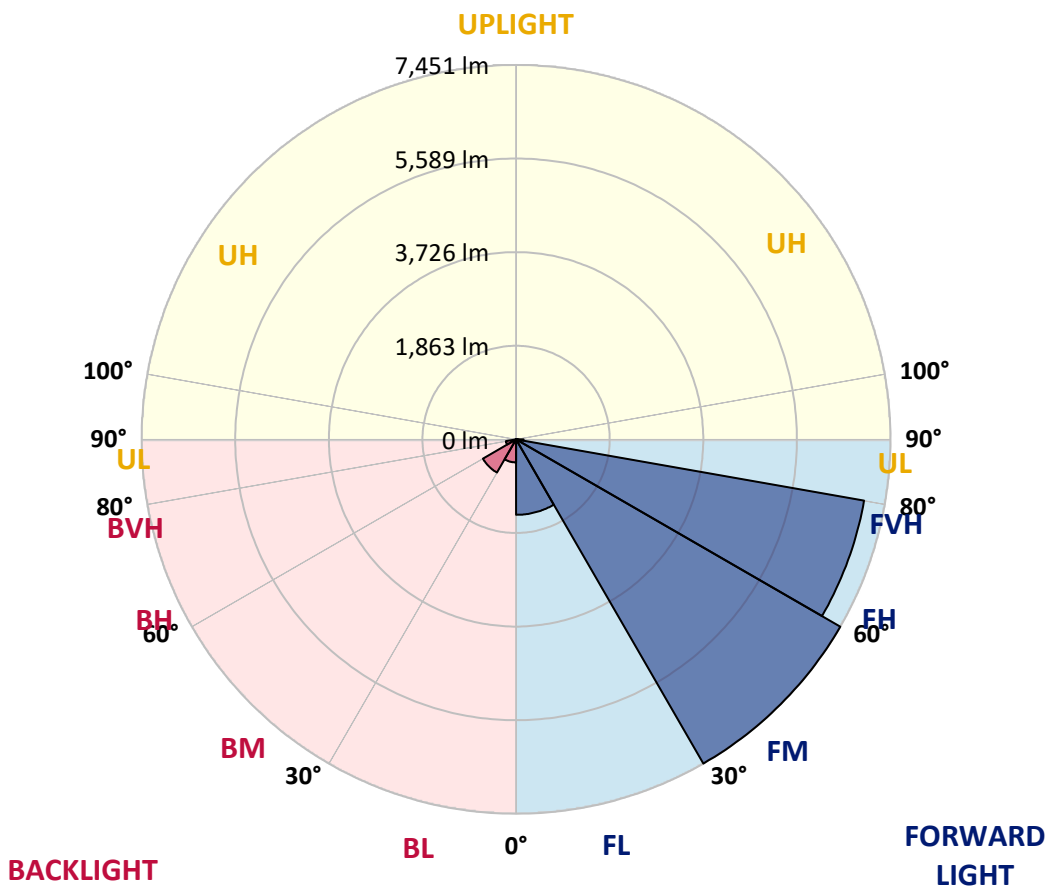
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1502.0	8.5			
FM (30°-60°)	7451.4	42.4			
FH (60°-80°)	7032.0	40.0			G3/7500
FVH (80°-90°)	148.2	0.8			G2/225
BL (0°-30°)	458.8	2.6	B1/500		
BM (30°-60°)	762.6	4.3	B1/1000		
BH (60°-80°)	204.9	1.2	B1/500		G1/500
BVH (80°-90°)	10.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2981.5	2981.5	2981.5	2981.5	2981.5	2981.5	2981.5	2981.5	2981.5	2981.5	2981.5
2.5°	3205.3	3216.5	3214.9	3219.7	3208.5	3190.9	3187.7	3163.8	3120.6	3066.2	3005.5
5°	3270.9	3283.7	3274.1	3269.3	3248.5	3229.3	3224.5	3198.9	3149.4	3075.8	2970.3
7.5°	3326.8	3330.0	3323.6	3312.4	3282.1	3256.5	3238.9	3203.7	3144.6	3071.0	2949.5
10°	3336.4	3334.8	3338.0	3339.6	3320.4	3298.0	3283.7	3235.7	3160.6	3082.2	2951.1
12.5°	3325.2	3325.2	3346.0	3370.0	3370.0	3358.8	3344.4	3301.2	3213.3	3120.6	2983.1
15°	3339.6	3344.4	3384.4	3429.1	3443.5	3432.3	3425.9	3381.2	3290.0	3187.7	3040.7
17.5°	3390.8	3395.6	3459.5	3526.6	3544.2	3531.4	3518.7	3473.9	3376.4	3264.5	3106.2
20°	3465.9	3478.7	3560.2	3646.5	3662.5	3646.5	3621.0	3558.6	3461.1	3347.6	3168.5
22.5°	3603.4	3611.4	3699.3	3790.4	3798.4	3772.8	3734.5	3648.1	3545.8	3435.5	3238.9
25°	3785.6	3796.8	3884.7	3972.7	3951.9	3913.5	3860.8	3763.2	3646.5	3539.4	3328.4
27.5°	4003.0	4015.8	4102.2	4178.9	4124.5	4079.8	4020.6	3899.1	3780.8	3683.3	3443.5
30°	4238.1	4249.2	4326.0	4394.7	4322.8	4270.0	4199.7	4075.0	3955.1	3881.5	3606.6
32.5°	4465.1	4463.5	4537.0	4593.0	4519.4	4477.9	4413.9	4287.6	4191.7	4159.7	3849.6
35°	4676.1	4676.1	4736.8	4792.8	4740.0	4717.6	4658.5	4557.8	4503.4	4541.8	4174.1
37.5°	4888.7	4877.5	4935.1	4997.4	4992.6	4994.2	4960.6	4912.7	4915.9	5051.8	4620.1
40°	5064.6	5059.8	5126.9	5208.4	5272.4	5323.5	5302.8	5320.3	5421.1	5675.2	5190.9
42.5°	5205.2	5216.4	5302.8	5432.3	5593.7	5697.6	5712.0	5784.0	6042.9	6436.2	5835.1
45°	5366.7	5368.3	5488.2	5686.4	5943.8	6108.5	6166.0	6351.5	6719.2	7225.9	6541.7
47.5°	5564.9	5545.8	5680.0	5958.2	6330.7	6573.7	6676.0	6907.8	7476.9	7996.5	7117.2
50°	5784.0	5748.8	5900.7	6279.5	6763.9	7067.7	7275.5	7614.4	8228.3	8629.6	7545.7
52.5°	6038.1	6004.6	6177.2	6648.8	7283.5	7652.8	7919.8	8261.9	8872.6	9112.4	7801.5
55°	6361.1	6327.5	6509.7	7091.7	7897.4	8377.0	8656.8	8944.5	9472.1	9468.9	7986.9
57.5°	6719.2	6672.8	6925.4	7651.2	8663.1	9161.9	9446.5	9587.2	9927.7	9745.4	8111.6
60°	7130.0	7088.5	7438.6	8317.8	9547.2	10009.2	10188.3	10130.7	10301.8	9908.5	8068.4
62.5°	7500.9	7481.7	7916.6	9024.4	10389.7	10779.8	10829.3	10578.3	10576.7	9911.7	7777.5
65°	7886.2	7923.0	8568.8	9838.2	11237.0	11499.2	11414.4	11022.8	10687.1	9520.0	6917.4
67.5°	8030.1	8137.2	8998.9	10573.5	11905.2	12109.9	11961.2	11245.0	10228.2	8202.7	5267.6
70°	7141.2	7342.7	8592.8	10615.1	12181.8	12376.8	12020.3	10647.1	8527.3	5433.8	2885.6
72.5°	5430.7	5665.7	7160.4	8691.9	10955.6	11400.1	10791.0	8674.3	5496.2	2380.4	968.8
75°	3039.1	3293.2	5333.1	6544.9	7355.4	7761.5	7537.7	5564.9	2434.8	621.9	289.4
77.5°	1027.9	1112.7	2481.1	4049.4	4855.1	4490.6	3801.6	2764.1	895.3	236.6	153.5
80°	609.1	641.1	924.0	2015.9	2554.7	2118.2	1672.2	1021.5	455.6	126.3	107.1
82.5°	182.2	215.8	510.0	748.2	1000.8	623.5	527.6	583.5	236.6	68.7	89.5
85°	0.0	0.0	108.7	231.8	262.2	102.3	102.3	330.9	43.2	28.8	65.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	8.0	4.8	6.4	14.4
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°	2981.5	2981.5	2981.5	2981.5	2981.5	2981.5	2981.5	2981.5	2981.5	2981.5	2981.5
2.5°	2962.3	2906.4	2840.8	2778.5	2719.3	2642.6	2605.8	2561.1	2522.7	2501.9	2513.1
5°	2903.2	2815.2	2681.0	2545.1	2407.6	2278.1	2161.4	2083.1	2012.7	1975.9	1983.9
7.5°	2852.0	2733.7	2524.3	2302.1	2081.5	1859.2	1678.6	1537.9	1429.2	1384.4	1376.4
10°	2829.6	2681.0	2385.2	2065.5	1726.6	1427.6	1171.8	1016.7	906.4	852.1	861.7
12.5°	2840.8	2653.8	2266.9	1833.7	1394.0	1045.5	800.9	655.5	577.1	545.1	537.2
15°	2872.8	2647.4	2161.4	1597.1	1075.9	730.6	553.1	494.0	478.0	474.8	474.8
17.5°	2909.6	2649.0	2052.7	1357.3	816.9	541.9	473.2	462.0	457.2	454.0	455.6
20°	2946.3	2649.0	1928.0	1114.3	613.9	468.4	450.8	442.8	438.0	436.4	436.4
22.5°	2991.1	2649.0	1788.9	888.9	492.4	444.4	430.0	425.2	420.4	418.8	417.3
25°	3045.4	2650.6	1635.4	695.4	447.6	423.6	412.5	407.7	402.9	399.7	399.7
27.5°	3123.8	2663.4	1466.0	541.9	422.0	404.5	394.9	390.1	385.3	380.5	380.5
30°	3237.3	2695.3	1275.7	447.6	398.1	383.7	374.1	370.9	366.1	361.3	359.7
32.5°	3406.7	2751.3	1079.1	401.3	375.7	361.3	350.1	346.9	342.1	337.3	335.7
35°	3643.3	2853.6	887.3	372.5	346.9	332.5	326.1	324.5	318.1	313.3	313.3
37.5°	3990.3	3019.9	703.4	343.7	322.9	311.7	303.7	300.5	294.2	289.4	287.8
40°	4413.9	3235.7	546.7	321.3	300.5	289.4	281.4	276.6	268.6	262.2	259.0
42.5°	4954.3	3499.5	431.6	297.4	279.8	268.6	262.2	252.6	241.4	231.8	230.2
45°	5517.0	3771.2	356.5	275.0	260.6	251.0	243.0	230.2	214.2	203.0	199.8
47.5°	5948.6	3940.7	311.7	251.0	239.8	231.8	222.2	206.2	187.0	174.3	171.1
50°	6257.2	3966.3	278.2	228.6	222.2	214.2	199.8	180.6	159.9	147.1	143.9
52.5°	6409.0	3851.2	251.0	207.8	203.0	195.0	177.5	156.7	134.3	121.5	118.3
55°	6477.8	3633.8	225.4	190.2	183.8	174.3	155.1	132.7	110.3	99.1	95.9
57.5°	6450.6	3312.4	203.0	172.7	164.7	153.5	132.7	108.7	91.1	79.9	78.3
60°	6249.2	2861.6	180.6	155.1	145.5	132.7	111.9	89.5	73.5	65.5	63.9
62.5°	5814.3	2302.1	158.3	134.3	127.9	115.1	95.9	73.5	60.7	56.0	54.4
65°	4923.9	1627.4	135.9	113.5	110.3	97.5	79.9	60.7	52.8	49.6	48.0
67.5°	3539.4	989.6	115.1	97.5	94.3	83.1	67.1	52.8	48.0	46.4	46.4
70°	1779.3	468.4	91.1	79.9	79.9	68.7	57.6	48.0	46.4	44.8	44.8
72.5°	604.3	199.8	68.7	62.3	65.5	59.2	49.6	44.8	44.8	44.8	44.8
75°	206.2	105.5	48.0	44.8	48.0	48.0	43.2	43.2	44.8	44.8	44.8
77.5°	134.3	70.3	33.6	30.4	36.8	36.8	36.8	40.0	43.2	43.2	43.2
80°	110.3	38.4	22.4	20.8	27.2	27.2	30.4	36.8	40.0	40.0	40.0
82.5°	94.3	24.0	12.8	14.4	19.2	20.8	25.6	30.4	35.2	36.8	36.8
85°	63.9	12.8	9.6	11.2	12.8	16.0	20.8	25.6	28.8	32.0	32.0
87.5°	17.6	4.8	6.4	8.0	8.0	11.2	16.0	19.2	22.4	24.0	24.0
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)