

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: P641028

Luminaire Tested: GWS-SA5F-722-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641028
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-SA5F-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22570.9 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

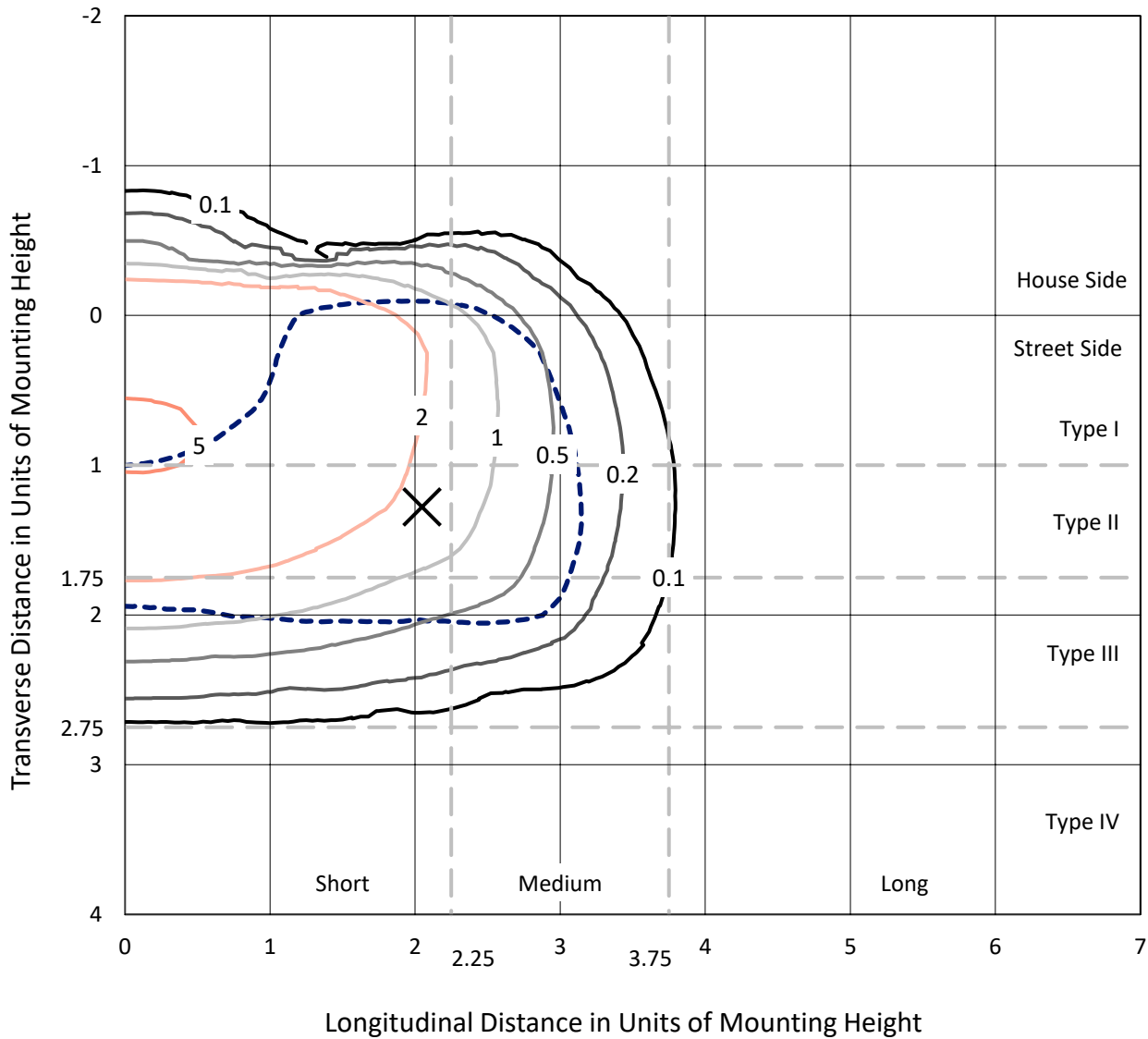
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

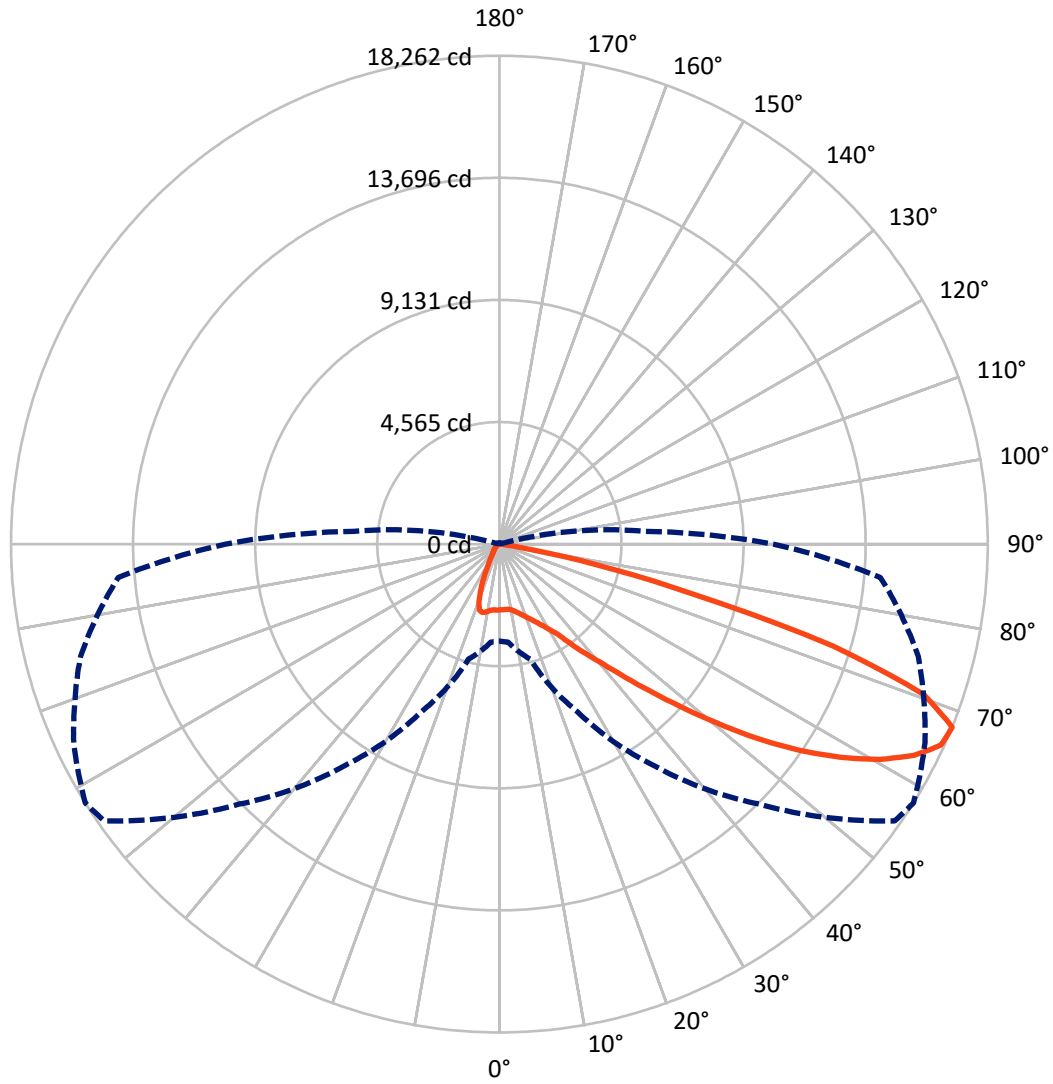
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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
House Side	Lumens	2462.4	0.0	2462.4
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	20108.5	0.0	20108.5
	% Fixture	89.1	0.0	89.1
Total	Lumens	22570.9	0.0	22570.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.0	1.0
10°-20°	648.7	2.9
20°-30°	1132.3	5.0
30°-40°	2022.2	9.0
40°-50°	3696.2	16.4
50°-60°	6147.2	27.2
60°-70°	6676.9	29.6
70°-80°	1960.4	8.7
80°-90°	55.8	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°	22570.9	100.0
0°-180°	22570.9	100.0

Coefficient of Utilization



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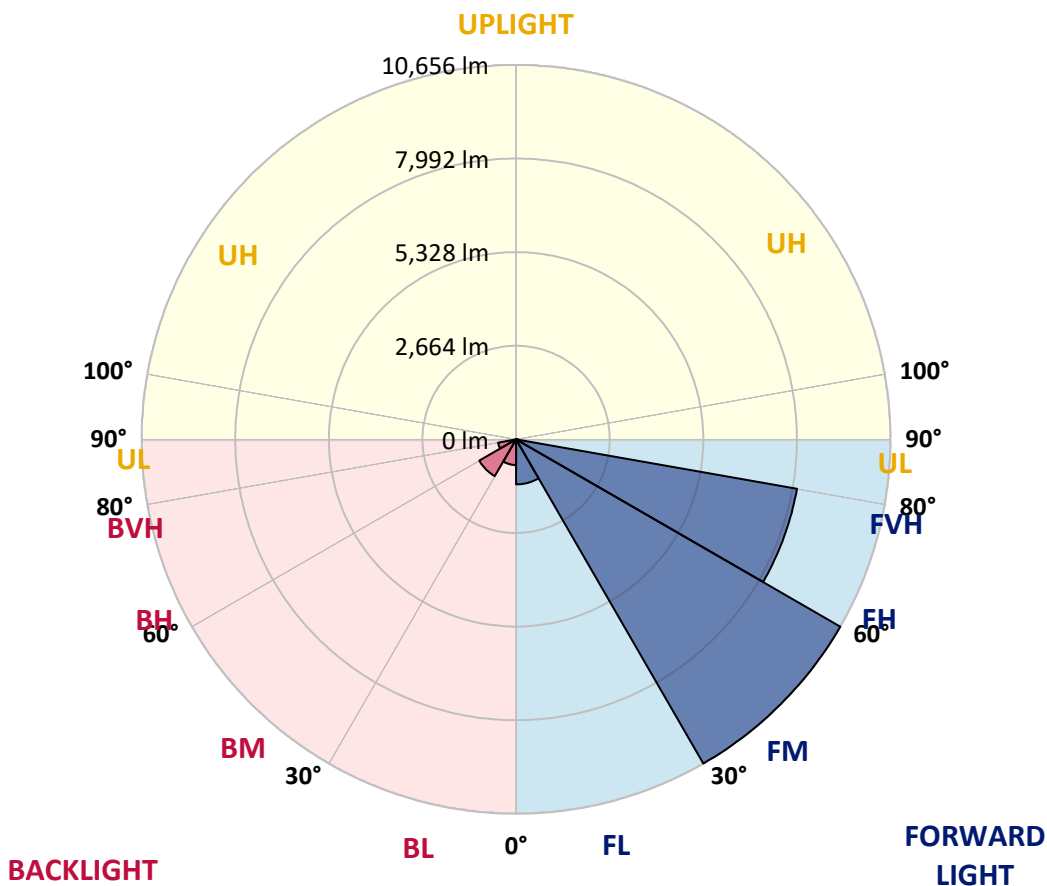
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1281.7	5.7			
FM (30°-60°)	10656.2	47.2			
FH (60°-80°)	8117.5	36.0			G4/12000
FVH (80°-90°)	53.1	0.2			G1/100
BL (0°-30°)	730.4	3.2	B2/1000		
BM (30°-60°)	1209.5	5.4	B2/2500		
BH (60°-80°)	519.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	2.7	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°	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6
2.5°	2413.3	2408.9	2408.9	2426.5	2428.7	2437.5	2457.3	2459.6	2470.6	2466.2	2450.7
5°	2287.6	2289.9	2303.1	2333.9	2360.4	2393.4	2441.9	2452.9	2477.2	2490.4	2481.6
7.5°	2170.8	2173.0	2192.9	2241.4	2292.1	2358.2	2437.5	2459.6	2508.0	2543.3	2545.5
10°	2126.8	2124.6	2144.4	2199.5	2265.6	2358.2	2472.8	2501.4	2574.2	2635.9	2646.9
12.5°	2140.0	2137.8	2157.6	2208.3	2281.0	2397.8	2534.5	2574.2	2666.7	2761.5	2781.3
15°	2192.9	2190.7	2203.9	2245.8	2325.1	2446.3	2613.8	2673.3	2790.1	2904.7	2935.6
17.5°	2351.6	2340.5	2327.3	2331.7	2378.0	2503.6	2715.2	2787.9	2933.4	3070.0	3096.5
20°	2633.7	2605.0	2569.7	2523.5	2501.4	2587.4	2832.0	2915.8	3092.1	3248.6	3253.0
22.5°	3059.0	3048.0	2966.5	2832.0	2737.2	2739.4	2968.7	3065.6	3281.6	3453.5	3429.3
25°	3651.9	3645.3	3519.6	3299.2	3052.4	2968.7	3142.8	3241.9	3506.4	3689.3	3612.2
27.5°	4388.0	4341.7	4194.0	3896.5	3528.4	3266.2	3363.2	3451.3	3744.4	3916.3	3770.9
30°	5029.3	5031.5	4892.7	4581.9	4167.6	3713.6	3632.0	3709.2	3962.6	4143.3	3967.0
32.5°	5646.4	5666.2	5514.2	5234.3	4780.3	4297.6	4017.7	4030.9	4242.5	4438.7	4224.9
35°	6219.4	6234.8	6129.0	5891.0	5467.9	4908.1	4555.5	4548.9	4663.5	4864.0	4584.1
37.5°	6860.7	6876.2	6772.6	6558.8	6162.1	5606.7	5165.9	5157.1	5203.4	5366.5	5046.9
40°	7544.0	7572.6	7458.0	7277.3	6898.2	6428.8	5875.6	5796.3	5750.0	5941.7	5646.4
42.5°	8236.0	8280.1	8240.4	8059.7	7735.7	7347.8	6796.8	6673.4	6574.2	6814.5	6501.5
45°	9095.5	9148.4	9130.8	8991.9	8740.7	8425.5	7905.4	7762.1	7715.9	7938.5	7566.0
47.5°	9922.0	9979.3	10043.2	10012.3	9833.8	9688.3	9110.9	9029.4	9016.2	9254.2	8676.8
50°	10536.9	10589.7	10834.4	11010.7	11131.9	11101.1	10600.8	10479.6	10459.7	10611.8	9849.2
52.5°	10977.6	11028.3	11365.5	11916.5	12361.7	12604.1	12099.4	12073.0	11965.0	11912.1	10946.8
55°	11319.2	11389.8	11744.6	12577.7	13474.7	14012.4	13697.2	13602.5	13324.8	13020.6	11965.0
57.5°	11387.6	11416.2	11916.5	13040.5	14338.6	15209.1	15209.1	15043.8	14508.3	14087.3	13141.9
60°	10774.9	10863.0	11539.6	13003.0	14708.8	15991.5	16463.1	16348.5	15625.7	15107.7	14274.7
62.5°	9415.1	9514.2	10338.5	12106.0	14338.6	16152.4	17413.0	17395.4	16579.9	15951.8	15213.5
65°	7220.0	7292.7	8011.2	10126.9	12773.8	15533.1	18091.8	18140.3	17333.7	16509.4	15537.5
67.5°	3627.6	3678.3	4454.1	6918.0	10124.7	13750.1	18045.5	18261.5	17562.9	16214.1	14301.1
70°	1267.2	1317.9	1683.8	2968.7	6162.1	10499.4	16485.2	16837.8	16216.3	13840.5	10550.1
72.5°	434.2	458.4	698.6	1102.0	2397.8	6223.8	12535.8	13066.9	11954.0	9291.6	6062.9
75°	246.8	262.3	374.7	597.3	1005.0	2047.4	7112.0	7438.2	6968.7	5064.6	2494.8
77.5°	167.5	180.7	233.6	339.4	555.4	659.0	2900.3	3651.9	3184.6	1652.9	636.9
80°	99.2	108.0	143.3	200.6	284.3	255.7	621.5	826.5	1064.5	493.7	191.7
82.5°	46.3	52.9	92.6	132.2	143.3	108.0	182.9	222.6	299.7	242.4	79.3
85°	0.0	0.0	30.9	55.1	52.9	30.9	50.7	55.1	81.5	121.2	30.9
87.5°	0.0	0.0	0.0	0.0	0.0	2.2	4.4	6.6	13.2	24.2	13.2
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°	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6
2.5°	2468.4	2452.9	2470.6	2461.8	2470.6	2468.4	2450.7	2439.7	2439.7	2419.9	2413.3
5°	2499.2	2483.8	2488.2	2468.4	2464.0	2452.9	2430.9	2422.1	2422.1	2402.3	2395.6
7.5°	2567.5	2543.3	2538.9	2499.2	2481.6	2450.7	2411.1	2395.6	2393.4	2373.6	2367.0
10°	2675.5	2646.9	2627.1	2576.4	2525.7	2464.0	2380.2	2309.7	2270.0	2217.1	2212.7
12.5°	2807.8	2772.5	2741.7	2664.5	2580.8	2441.9	2195.1	1937.2	1778.5	1652.9	1661.7
15°	2955.4	2922.4	2873.9	2757.1	2585.2	2223.7	1708.0	1311.3	1117.4	1013.8	1009.4
17.5°	3116.3	3067.8	2988.5	2829.8	2446.3	1699.2	1110.8	784.6	683.2	647.9	639.1
20°	3266.2	3206.7	3107.5	2845.2	2045.2	1150.4	694.2	608.3	590.6	579.6	579.6
22.5°	3424.9	3349.9	3202.3	2726.2	1520.7	736.1	590.6	570.8	557.6	542.2	540.0
25°	3585.7	3488.8	3288.2	2415.5	996.2	579.6	553.2	531.1	506.9	482.7	476.0
27.5°	3722.4	3596.8	3354.3	1952.7	639.1	522.3	504.7	467.2	434.2	407.7	403.3
30°	3885.5	3724.6	3383.0	1428.1	502.5	460.6	434.2	394.5	354.8	328.4	319.6
32.5°	4103.7	3927.4	3338.9	930.0	445.2	405.5	363.6	317.4	277.7	249.0	244.6
35°	4443.1	4233.7	3136.2	592.8	403.3	350.4	299.7	251.2	218.2	196.1	191.7
37.5°	4857.4	4663.5	2803.4	445.2	361.4	304.1	244.6	198.4	174.1	158.7	154.3
40°	5472.3	5201.2	2391.2	390.1	319.6	257.9	200.6	163.1	145.5	132.2	127.8
42.5°	6270.1	5835.9	1917.4	354.8	279.9	216.0	163.1	134.4	119.0	110.2	108.0
45°	7202.3	6455.2	1417.1	319.6	242.4	178.5	134.4	110.2	99.2	92.6	90.4
47.5°	8156.6	6997.4	978.5	282.1	207.2	147.7	112.4	94.8	86.0	77.1	74.9
50°	9174.8	7455.8	667.8	244.6	176.3	121.2	97.0	86.0	74.9	68.3	66.1
52.5°	9922.0	7625.5	465.0	211.6	149.9	103.6	86.0	77.1	68.3	59.5	57.3
55°	10611.8	7621.1	352.6	178.5	127.8	90.4	77.1	68.3	59.5	52.9	50.7
57.5°	11299.4	7561.6	277.7	152.1	110.2	81.5	68.3	59.5	55.1	46.3	44.1
60°	11744.6	7336.8	216.0	127.8	94.8	70.5	59.5	52.9	46.3	39.7	37.5
62.5°	11980.4	7023.8	165.3	101.4	77.1	61.7	52.9	46.3	39.7	33.1	30.9
65°	11660.8	6468.5	130.0	79.3	59.5	52.9	44.1	37.5	30.9	24.2	22.0
67.5°	10243.7	5454.7	101.4	63.9	46.3	39.7	37.5	30.9	22.0	17.6	15.4
70°	7239.8	3735.6	79.3	48.5	35.3	30.9	28.7	24.2	17.6	13.2	11.0
72.5°	3973.6	1884.3	57.3	35.3	26.4	24.2	22.0	19.8	15.4	11.0	11.0
75°	1529.5	517.9	41.9	24.2	17.6	17.6	15.4	15.4	13.2	8.8	8.8
77.5°	398.9	154.3	26.4	15.4	11.0	11.0	11.0	8.8	8.8	6.6	6.6
80°	127.8	50.7	15.4	11.0	8.8	6.6	6.6	4.4	6.6	4.4	4.4
82.5°	41.9	17.6	8.8	8.8	6.6	4.4	4.4	2.2	2.2	0.0	0.0
85°	15.4	8.8	6.6	4.4	4.4	4.4	2.2	0.0	0.0	0.0	0.0
87.5°	8.8	4.4	4.4	4.4	4.4	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)