

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: P640258

Luminaire Tested: GWS-SA5D-740-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640258
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-SA5D-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22054.5 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

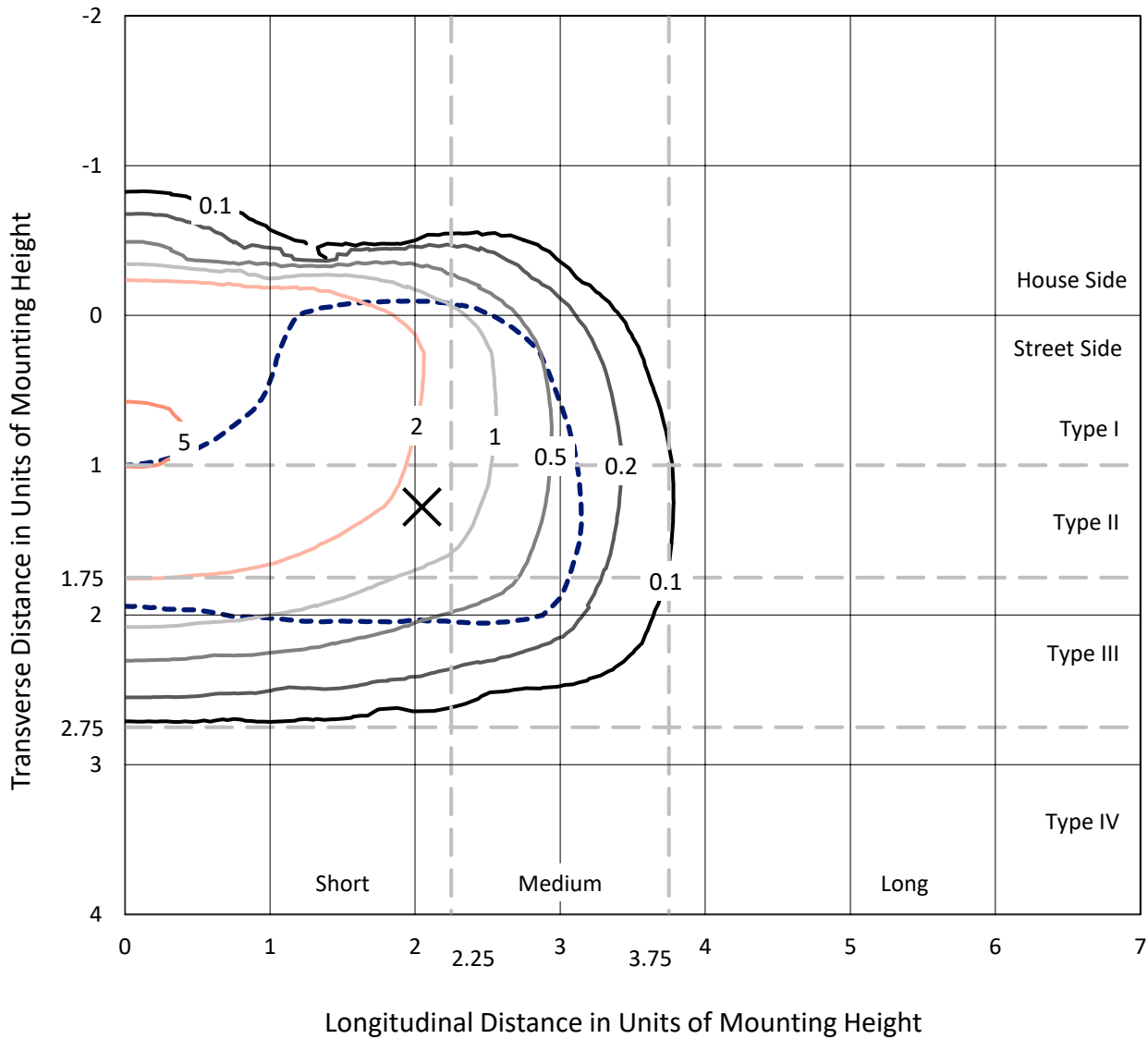
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

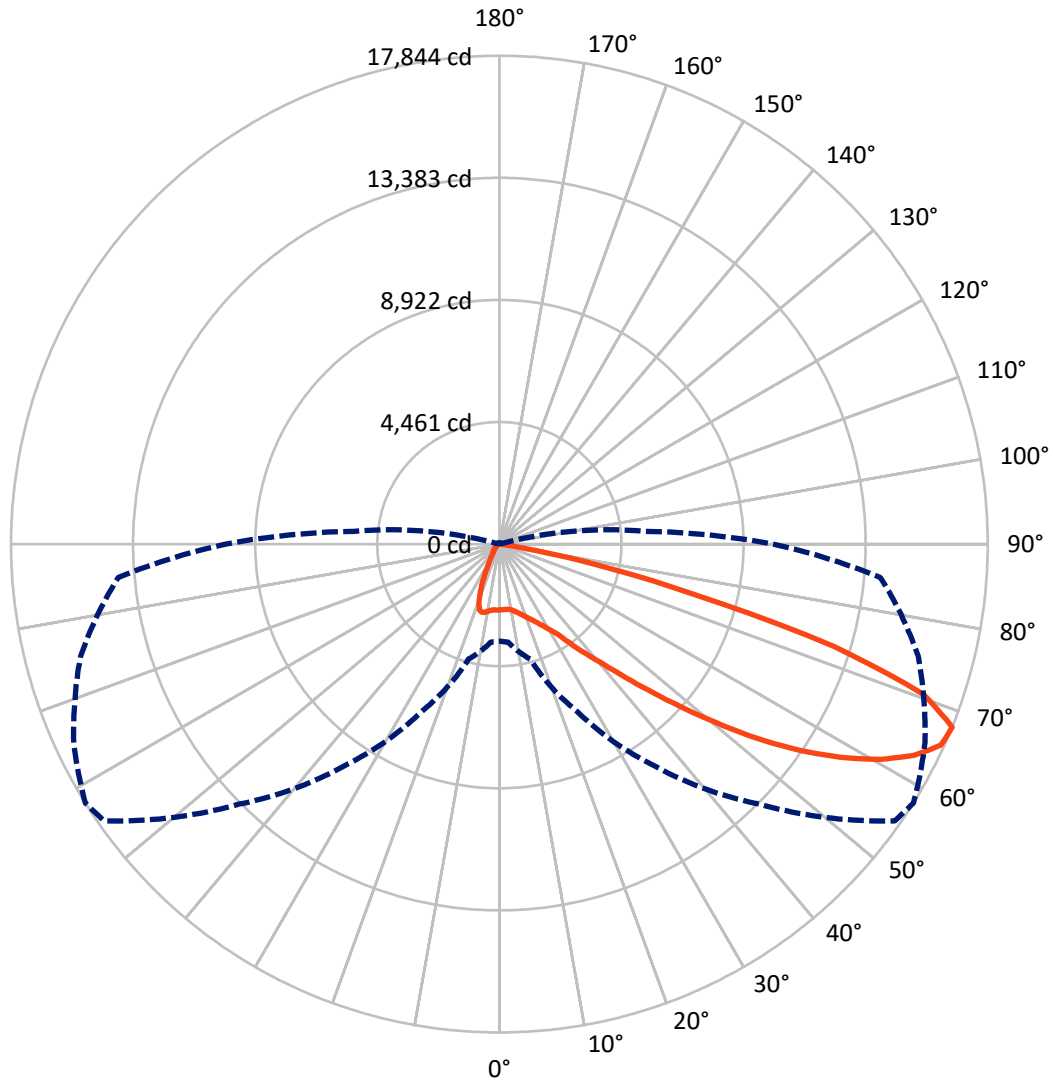
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	2406.1	0.0	2406.1
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	19648.4	0.0	19648.4
	% Fixture	89.1	0.0	89.1
Total	Lumens	22054.5	0.0	22054.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.8	1.0
10°-20°	633.9	2.9
20°-30°	1106.4	5.0
30°-40°	1975.9	9.0
40°-50°	3611.7	16.4
50°-60°	6006.6	27.2
60°-70°	6524.2	29.6
70°-80°	1915.6	8.7
80°-90°	54.6	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°	22054.5	100.0
0°-180°	22054.5	100.0

Coefficient of Utilization



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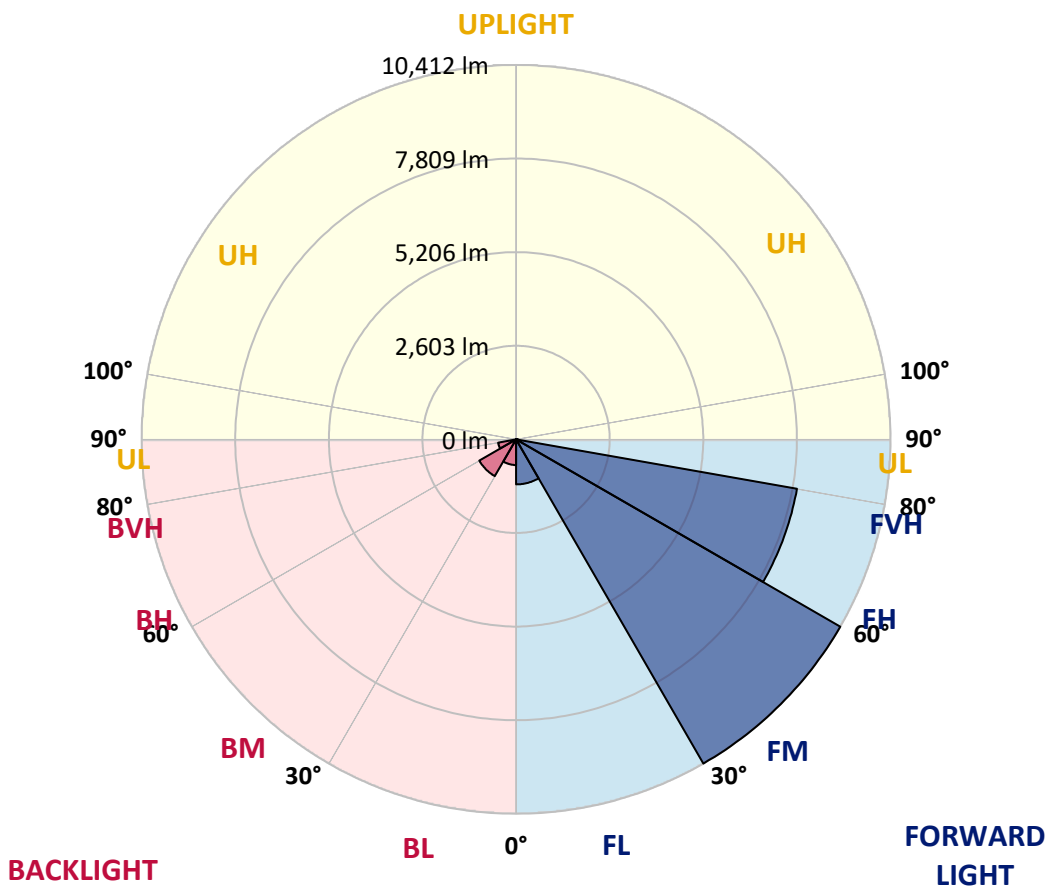
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1252.4	5.7			
FM (30°-60°)	10412.4	47.2			
FH (60°-80°)	7931.8	36.0			G4/12000
FVH (80°-90°)	51.9	0.2			G1/100
BL (0°-30°)	713.7	3.2	B2/1000		
BM (30°-60°)	1181.8	5.4	B2/2500		
BH (60°-80°)	507.9	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°	2403.3	2403.3	2403.3	2403.3	2403.3	2403.3	2403.3	2403.3	2403.3	2403.3	2403.3
2.5°	2358.1	2353.8	2353.8	2371.0	2373.1	2381.7	2401.1	2403.3	2414.0	2409.7	2394.7
5°	2235.3	2237.5	2250.4	2280.5	2306.4	2338.7	2386.1	2396.8	2420.5	2433.4	2424.8
7.5°	2121.2	2123.3	2142.7	2190.1	2239.6	2304.2	2381.7	2403.3	2450.7	2485.1	2487.3
10°	2078.1	2076.0	2095.3	2149.2	2213.8	2304.2	2416.2	2444.2	2515.3	2575.6	2586.3
12.5°	2091.0	2088.9	2108.3	2157.8	2228.8	2343.0	2476.5	2515.3	2605.7	2698.3	2717.7
15°	2142.7	2140.6	2153.5	2194.4	2271.9	2390.4	2554.0	2612.2	2726.3	2838.3	2868.4
17.5°	2297.8	2287.0	2274.1	2278.4	2323.6	2446.4	2653.1	2724.1	2866.3	2999.8	3025.6
20°	2573.4	2545.4	2511.0	2465.7	2444.2	2528.2	2767.2	2849.1	3021.3	3174.2	3178.5
22.5°	2989.0	2978.3	2898.6	2767.2	2674.6	2676.8	2900.7	2995.5	3206.5	3374.5	3350.8
25°	3568.3	3561.9	3439.1	3223.8	2982.6	2900.7	3070.9	3167.8	3426.2	3604.9	3529.6
27.5°	4287.6	4242.4	4098.1	3807.3	3447.7	3191.5	3286.2	3372.3	3658.8	3826.7	3684.6
30°	4914.2	4916.4	4780.7	4477.1	4072.2	3628.6	3548.9	3624.3	3872.0	4048.5	3876.3
32.5°	5517.2	5536.6	5388.0	5114.5	4670.9	4199.3	3925.8	3938.7	4145.4	4337.1	4128.2
35°	6077.1	6092.2	5988.8	5756.2	5342.8	4795.8	4451.2	4444.8	4556.8	4752.7	4479.2
37.5°	6703.8	6718.9	6617.6	6408.8	6021.1	5478.4	5047.8	5039.1	5084.4	5243.7	4931.5
40°	7371.4	7399.4	7287.4	7110.8	6740.4	6281.7	5741.2	5663.6	5618.4	5805.8	5517.2
42.5°	8047.5	8090.6	8051.9	7875.3	7558.7	7179.7	6641.3	6520.7	6423.8	6658.6	6352.8
45°	8887.4	8939.1	8921.9	8786.2	8540.7	8232.7	7724.5	7584.5	7539.3	7756.8	7392.9
47.5°	9695.0	9750.9	9813.4	9783.3	9608.8	9466.7	8902.5	8822.8	8809.9	9042.5	8478.2
50°	10295.8	10347.5	10586.5	10758.8	10877.2	10847.1	10358.2	10239.8	10220.4	10369.0	9623.9
52.5°	10726.5	10776.0	11105.5	11643.9	12078.9	12315.7	11822.6	11796.8	11691.2	11639.5	10696.3
55°	11060.3	11129.2	11475.9	12289.9	13166.4	13691.8	13383.9	13291.3	13019.9	12722.7	11691.2
57.5°	11127.0	11155.0	11643.9	12742.1	14010.5	14861.2	14861.2	14699.6	14176.3	13765.0	12841.2
60°	10528.4	10614.5	11275.6	12705.5	14372.3	15625.6	16086.5	15974.5	15268.2	14762.1	13948.1
62.5°	9199.7	9296.6	10102.0	11829.1	14010.5	15782.8	17014.6	16997.4	16200.6	15586.9	14865.5
65°	7054.8	7125.9	7827.9	9895.2	12481.6	15177.7	17677.9	17725.3	16937.1	16131.7	15182.0
67.5°	3544.6	3594.2	4352.2	6759.8	9893.1	13435.6	17632.7	17843.7	17161.1	15843.1	13973.9
70°	1238.2	1287.8	1645.3	2900.7	6021.1	10259.2	16108.0	16452.6	15845.3	13523.8	10308.7
72.5°	424.2	447.9	682.7	1076.7	2343.0	6081.4	12249.0	12768.0	11680.5	9079.1	5924.2
75°	241.2	256.3	366.1	583.6	982.0	2000.6	6949.3	7268.0	6809.3	4948.7	2437.7
77.5°	163.7	176.6	228.3	331.6	542.7	643.9	2834.0	3568.3	3111.8	1615.1	622.4
80°	96.9	105.5	140.0	196.0	277.8	249.8	607.3	807.6	1040.1	482.4	187.4
82.5°	45.2	51.7	90.4	129.2	140.0	105.5	178.7	217.5	292.9	236.9	77.5
85°	0.0	0.0	30.1	53.8	51.7	30.1	49.5	53.8	79.7	118.4	30.1
87.5°	0.0	0.0	0.0	0.0	0.0	2.2	4.3	6.5	12.9	23.7	12.9
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°	2403.3	2403.3	2403.3	2403.3	2403.3	2403.3	2403.3	2403.3	2403.3	2403.3	2403.3
2.5°	2411.9	2396.8	2414.0	2405.4	2414.0	2411.9	2394.7	2383.9	2383.9	2364.5	2358.1
5°	2442.0	2427.0	2431.3	2411.9	2407.6	2396.8	2375.3	2366.7	2366.7	2347.3	2340.8
7.5°	2508.8	2485.1	2480.8	2442.0	2424.8	2394.7	2355.9	2340.8	2338.7	2319.3	2312.8
10°	2614.3	2586.3	2566.9	2517.4	2467.9	2407.6	2325.8	2256.8	2218.1	2166.4	2162.1
12.5°	2743.5	2709.1	2678.9	2603.6	2521.7	2386.1	2144.9	1892.9	1737.9	1615.1	1623.7
15°	2887.8	2855.5	2808.1	2694.0	2526.0	2172.9	1668.9	1281.3	1091.8	990.6	986.3
17.5°	3045.0	2997.6	2920.1	2765.1	2390.4	1660.3	1085.4	766.6	667.6	633.1	624.5
20°	3191.5	3133.3	3036.4	2780.1	1998.4	1124.1	678.3	594.4	577.1	566.4	566.4
22.5°	3346.5	3273.3	3129.0	2663.9	1485.9	719.3	577.1	557.8	544.8	529.8	527.6
25°	3503.7	3409.0	3213.0	2360.2	973.4	566.4	540.5	519.0	495.3	471.6	465.2
27.5°	3637.2	3514.5	3277.6	1908.0	624.5	510.4	493.1	456.5	424.2	398.4	394.1
30°	3796.6	3639.4	3305.6	1395.5	491.0	450.1	424.2	385.5	346.7	320.9	312.3
32.5°	4009.8	3837.5	3262.5	908.8	435.0	396.2	355.3	310.1	271.3	243.3	239.0
35°	4341.4	4136.8	3064.4	579.3	394.1	342.4	292.9	245.5	213.2	191.7	187.4
37.5°	4746.3	4556.8	2739.2	435.0	353.2	297.2	239.0	193.8	170.1	155.1	150.7
40°	5347.1	5082.2	2336.5	381.2	312.3	252.0	196.0	159.4	142.1	129.2	124.9
42.5°	6126.6	5702.4	1873.5	346.7	273.5	211.0	159.4	131.4	116.3	107.7	105.5
45°	7037.6	6307.5	1384.7	312.3	236.9	174.4	131.4	107.7	96.9	90.4	88.3
47.5°	7970.0	6837.3	956.1	275.6	202.4	144.3	109.8	92.6	84.0	75.4	73.2
50°	8964.9	7285.2	652.5	239.0	172.3	118.4	94.8	84.0	73.2	66.8	64.6
52.5°	9695.0	7451.0	454.4	206.7	146.4	101.2	84.0	75.4	66.8	58.1	56.0
55°	10369.0	7446.7	344.6	174.4	124.9	88.3	75.4	66.8	58.1	51.7	49.5
57.5°	11040.9	7388.6	271.3	148.6	107.7	79.7	66.8	58.1	53.8	45.2	43.1
60°	11475.9	7168.9	211.0	124.9	92.6	68.9	58.1	51.7	45.2	38.8	36.6
62.5°	11706.3	6863.1	161.5	99.1	75.4	60.3	51.7	45.2	38.8	32.3	30.1
65°	11394.1	6320.5	127.1	77.5	58.1	51.7	43.1	36.6	30.1	23.7	21.5
67.5°	10009.4	5329.9	99.1	62.5	45.2	38.8	36.6	30.1	21.5	17.2	15.1
70°	7074.2	3650.1	77.5	47.4	34.5	30.1	28.0	23.7	17.2	12.9	10.8
72.5°	3882.7	1841.2	56.0	34.5	25.8	23.7	21.5	19.4	15.1	10.8	10.8
75°	1494.5	506.1	40.9	23.7	17.2	17.2	15.1	15.1	12.9	8.6	8.6
77.5°	389.8	150.7	25.8	15.1	10.8	10.8	10.8	8.6	8.6	6.5	6.5
80°	124.9	49.5	15.1	10.8	8.6	6.5	6.5	4.3	6.5	4.3	4.3
82.5°	40.9	17.2	8.6	8.6	6.5	4.3	4.3	2.2	2.2	0.0	0.0
85°	15.1	8.6	6.5	4.3	4.3	4.3	2.2	0.0	0.0	0.0	0.0
87.5°	8.6	4.3	4.3	4.3	4.3	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)