

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: P642723

Luminaire Tested: GWS-SA6D-740-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-740-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21278.1 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

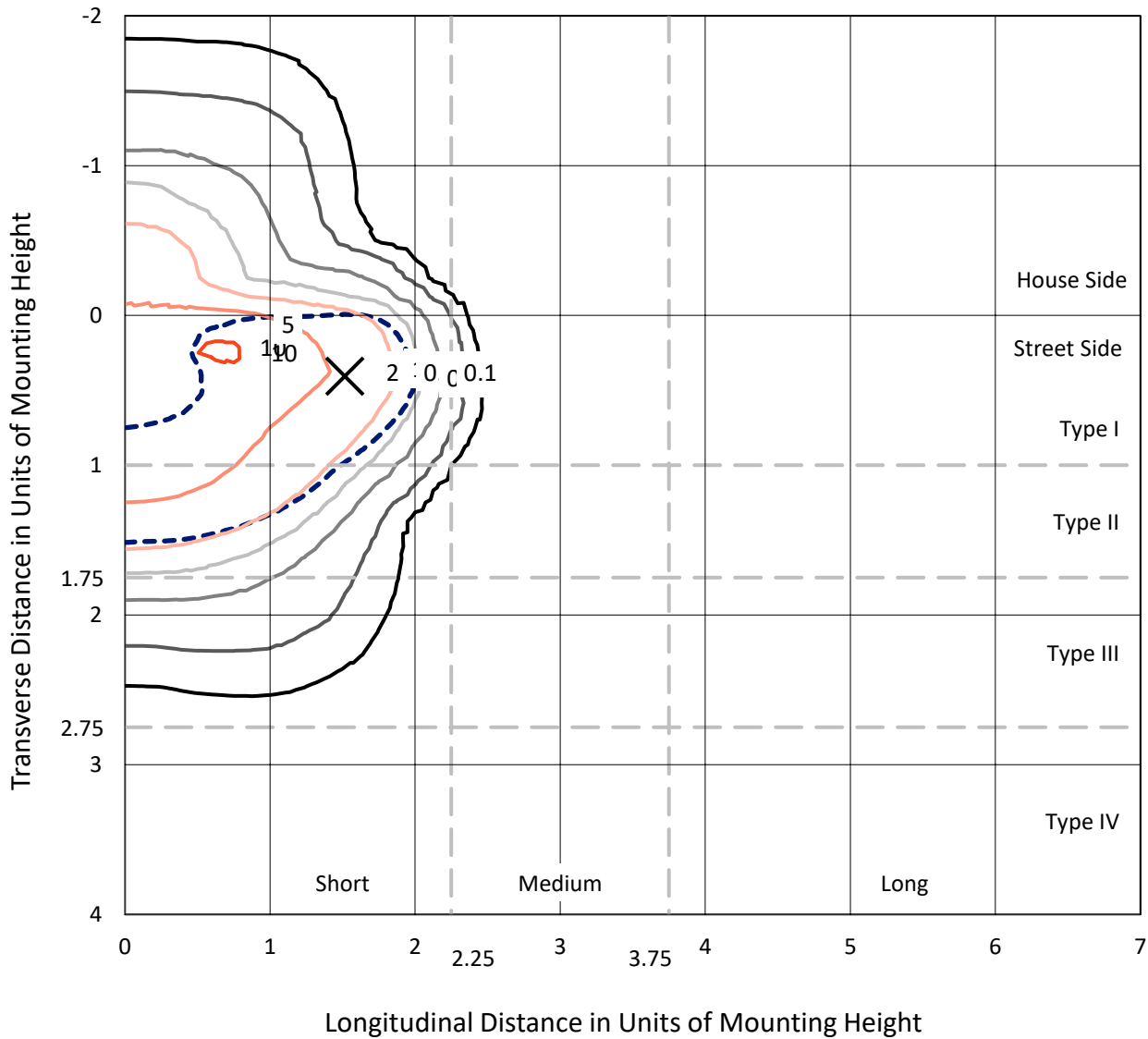
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

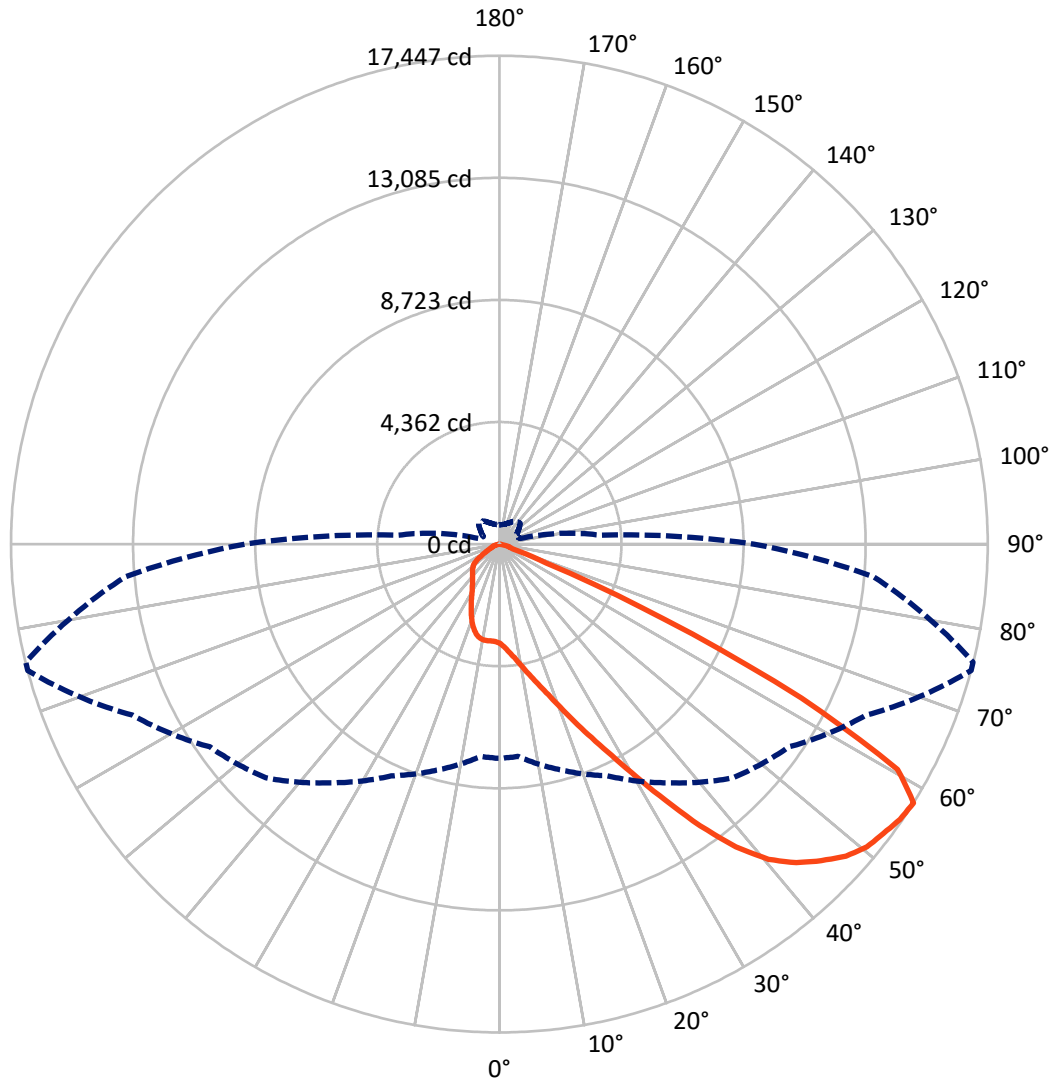
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3475.7	0.0	3475.7
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	17802.4	0.0	17802.4
	% Fixture	83.7	0.0	83.7
Total	Lumens	21278.1	0.0	21278.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.1	1.7
10°-20°	1173.1	5.5
20°-30°	2148.2	10.1
30°-40°	3564.1	16.8
40°-50°	5443.3	25.6
50°-60°	6116.4	28.7
60°-70°	2256.0	10.6
70°-80°	215.6	1.0
80°-90°	0.2	0.0
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°	21278.1	100.0
0°-180°	21278.1	100.0

Coefficient of Utilization



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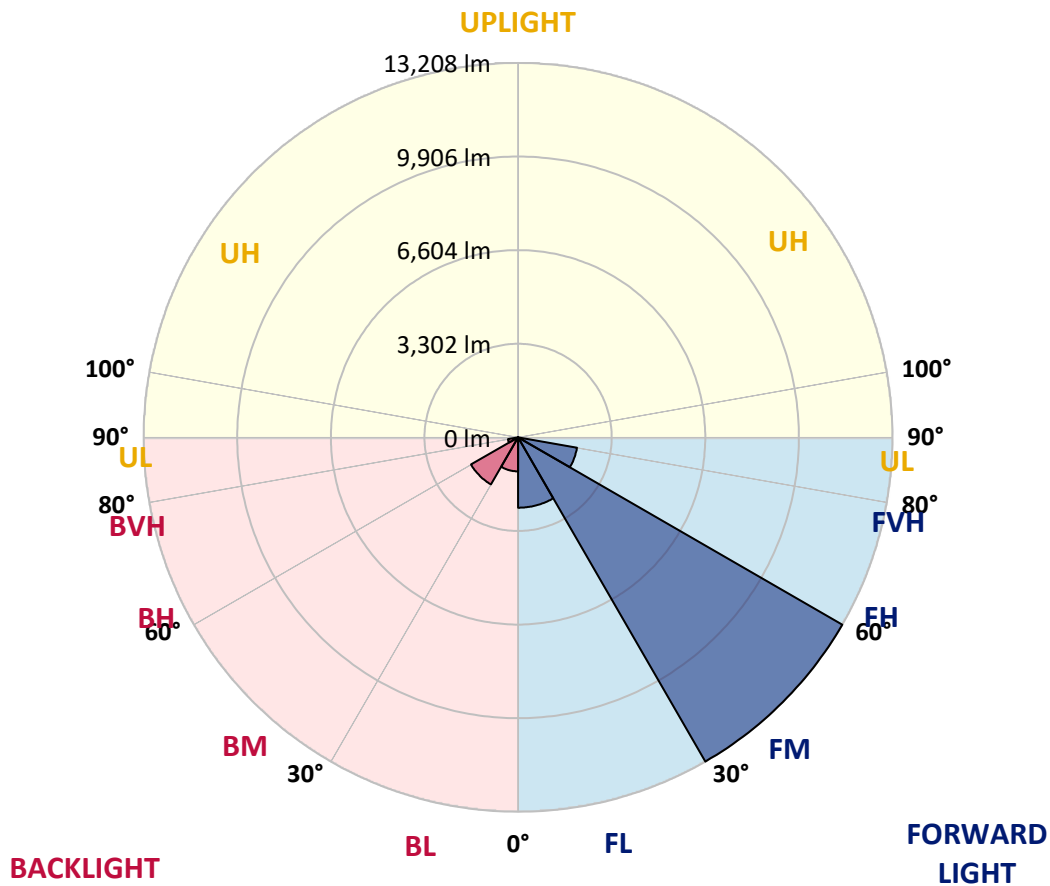
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2483.1	11.7			
FM (30°-60°)	13208.5	62.1			
FH (60°-80°)	2110.7	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1199.3	5.6	B3/2500		
BM (30°-60°)	1915.4	9.0	B2/2500		
BH (60°-80°)	360.9	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9
2.5°	3964.9	4006.0	3993.1	3967.5	3952.1	3898.1	3864.7	3767.2	3697.8	3690.1	3625.9
5°	4465.6	4457.9	4447.7	4416.9	4391.2	4306.4	4206.3	4041.9	3895.6	3877.6	3741.5
7.5°	4740.4	4745.6	4750.7	4745.6	4727.6	4663.4	4553.0	4360.4	4136.9	4121.5	3905.8
10°	4853.4	4863.7	4889.4	4938.1	4981.8	4976.7	4912.5	4714.7	4440.0	4414.3	4124.1
12.5°	4907.3	4920.2	4961.3	5053.7	5171.8	5264.3	5274.5	5097.4	4794.3	4753.3	4383.5
15°	4981.8	4994.6	5046.0	5166.7	5338.7	5521.1	5639.2	5526.2	5187.2	5143.6	4668.5
17.5°	5015.2	5033.2	5107.6	5266.8	5490.3	5770.2	6037.2	6027.0	5652.0	5618.6	4999.8
20°	5079.4	5092.2	5159.0	5331.0	5600.7	6003.8	6453.2	6615.0	6219.5	6170.8	5400.4
22.5°	5282.2	5287.4	5318.2	5426.1	5677.7	6173.3	6876.9	7300.6	6889.8	6825.6	5849.8
25°	5613.5	5610.9	5623.8	5641.8	5826.7	6345.4	7285.2	8073.6	7657.6	7588.3	6358.2
27.5°	6034.7	6034.7	6065.5	6014.1	6088.6	6558.5	7688.4	8962.1	8551.2	8453.7	6915.5
30°	6530.3	6527.7	6599.6	6517.4	6540.5	6894.9	8122.4	9930.2	9629.8	9509.1	7557.4
32.5°	7203.1	7187.7	7269.8	7156.8	7079.8	7403.4	8651.4	10942.0	10921.4	10736.6	8363.8
35°	8053.1	8027.4	8053.1	7942.6	7804.0	8114.7	9344.7	11951.2	12354.4	12159.2	9324.2
37.5°	8897.9	8980.1	9008.3	8818.3	8705.3	9016.0	10179.3	12855.1	13723.1	13520.2	10323.1
40°	9894.3	9868.6	9966.2	9753.0	9681.1	10025.2	10995.9	13527.9	14806.7	14614.1	11211.6
42.5°	10628.7	10674.9	10795.6	10677.5	10621.0	10944.6	11681.6	13920.8	15559.1	15369.1	11845.9
45°	11509.5	11542.9	11589.1	11491.5	11432.5	11750.9	12177.2	14092.8	16131.8	15926.4	12272.2
47.5°	12462.2	12487.9	12487.9	12287.6	12097.6	12228.5	12508.4	14190.4	16658.2	16460.5	12588.0
50°	13145.3	13158.1	13271.1	13129.9	12716.4	12513.6	12659.9	14285.4	17007.5	16822.6	12690.8
52.5°	12539.2	12523.8	12896.2	13188.9	13299.4	12896.2	12921.9	14424.1	17176.9	17017.7	12772.9
55°	10559.4	10533.7	11057.5	11768.9	12742.1	13258.3	13237.7	14506.3	17364.4	17266.8	13070.8
57.5°	7655.0	7611.4	8340.7	9131.6	10407.9	11807.4	12629.1	14460.1	17446.6	17438.9	13417.5
60°	4601.7	4565.8	5254.0	6086.0	7072.1	8479.3	9842.9	12952.7	16347.5	16362.9	12516.1
62.5°	2832.4	2865.8	3487.3	3911.0	4278.2	4701.9	5490.3	8713.0	12110.4	12210.5	8795.2
65°	1905.4	1931.1	2506.3	3040.4	3040.4	2485.8	2134.0	4165.2	6460.9	6291.4	4160.1
67.5°	1278.8	1307.1	1761.6	2385.6	2475.5	1733.4	865.4	1242.9	1800.1	1746.2	1029.7
70°	752.4	783.2	1173.5	1635.8	1802.7	1206.9	577.8	526.4	511.0	495.6	400.6
72.5°	336.4	349.2	598.3	832.0	760.1	508.5	408.3	421.1	398.0	390.3	326.1
75°	102.7	107.9	154.1	179.8	182.3	182.3	246.5	331.3	313.3	315.9	251.7
77.5°	25.7	25.7	41.1	38.5	20.5	18.0	46.2	74.5	77.0	69.3	51.4
80°	0.0	0.0	0.0	0.0	0.0	2.6	2.6	2.6	2.6	2.6	2.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9
2.5°	3597.7	3530.9	3487.3	3425.6	3382.0	3335.8	3294.7	3261.3	3243.3	3238.2	3240.7
5°	3679.9	3574.6	3471.9	3353.7	3271.6	3194.5	3132.9	3084.1	3061.0	3053.3	3053.3
7.5°	3805.7	3659.3	3477.0	3292.1	3153.4	3032.7	2960.8	2906.9	2886.4	2881.2	2865.8
10°	3970.0	3769.7	3469.3	3181.7	2986.5	2860.7	2809.3	2793.9	2801.6	2804.2	2801.6
12.5°	4167.8	3885.3	3420.5	3019.9	2809.3	2732.3	2737.4	2778.5	2824.7	2847.8	2853.0
15°	4378.3	3990.6	3310.1	2827.3	2657.8	2655.2	2729.7	2824.7	2914.6	2953.1	2963.4
17.5°	4614.6	4075.3	3140.6	2621.9	2526.9	2601.3	2734.9	2881.2	3001.9	3066.1	3079.0
20°	4873.9	4144.7	2924.9	2429.3	2411.3	2544.8	2729.7	2909.5	3058.4	3130.3	3143.2
22.5°	5143.6	4193.4	2675.8	2252.1	2306.0	2480.6	2680.9	2855.5	2996.8	3079.0	3089.2
25°	5451.7	4198.6	2421.6	2103.1	2208.4	2393.3	2562.8	2706.6	2824.7	2896.6	2904.3
27.5°	5721.4	4136.9	2195.6	1982.4	2118.5	2285.5	2398.5	2478.1	2560.2	2601.3	2603.9
30°	6032.1	4029.1	1982.4	1884.9	2026.1	2151.9	2208.4	2226.4	2234.1	2241.8	2231.5
32.5°	6401.9	3898.1	1823.2	1789.9	1920.8	2005.6	2021.0	1985.0	1941.4	1879.7	1864.3
35°	6856.4	3780.0	1692.3	1697.4	1805.3	1856.6	1843.8	1766.7	1682.0	1607.5	1594.7
37.5°	7349.4	3679.9	1592.1	1607.5	1679.4	1715.4	1676.9	1592.1	1553.6	1489.4	1492.0
40°	7786.0	3597.7	1502.2	1517.7	1551.0	1584.4	1522.8	1466.3	1538.2	1533.1	1538.2
42.5°	8096.7	3528.3	1425.2	1417.5	1440.6	1463.7	1417.5	1389.3	1509.9	1476.6	1494.5
45°	8279.0	3464.1	1361.0	1314.8	1350.7	1391.8	1361.0	1325.1	1366.1	1212.1	1199.2
47.5°	8402.3	3428.2	1304.5	1214.6	1278.8	1350.7	1286.5	1199.2	1140.2	1006.6	996.4
50°	8415.1	3410.2	1237.7	1111.9	1194.1	1271.1	1196.7	1076.0	991.2	932.2	924.5
52.5°	8481.9	3446.2	1145.3	981.0	1070.8	1194.1	1142.7	1022.0	906.5	855.1	844.9
55°	8779.8	3597.7	991.2	801.2	932.2	1135.0	1099.1	911.6	801.2	770.4	762.7
57.5°	9087.9	3628.5	780.7	634.3	811.5	1050.3	1004.1	839.7	731.9	695.9	688.2
60°	8309.8	2989.1	585.5	523.9	716.5	970.7	929.6	796.1	670.2	626.6	618.9
62.5°	5459.4	1615.2	464.8	444.3	603.5	821.7	847.4	719.0	598.3	552.1	549.5
65°	2516.6	749.8	356.9	351.8	472.5	654.8	729.3	629.1	505.9	464.8	464.8
67.5°	685.6	372.4	279.9	259.4	321.0	439.1	531.6	469.9	359.5	310.7	308.2
70°	341.5	300.4	251.7	223.4	231.1	272.2	313.3	261.9	182.3	148.9	146.4
72.5°	279.9	246.5	213.1	190.0	174.6	166.9	161.8	131.0	84.7	64.2	61.6
75°	208.0	177.2	151.5	123.3	105.3	97.6	87.3	64.2	36.0	20.5	18.0
77.5°	46.2	43.7	41.1	30.8	28.2	23.1	18.0	12.8	5.1	0.0	0.0
80°	2.6	2.6	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)