

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: P638543

Luminaire Tested: GWS-SA4F-722-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638543
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-SA4F-722-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14887 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

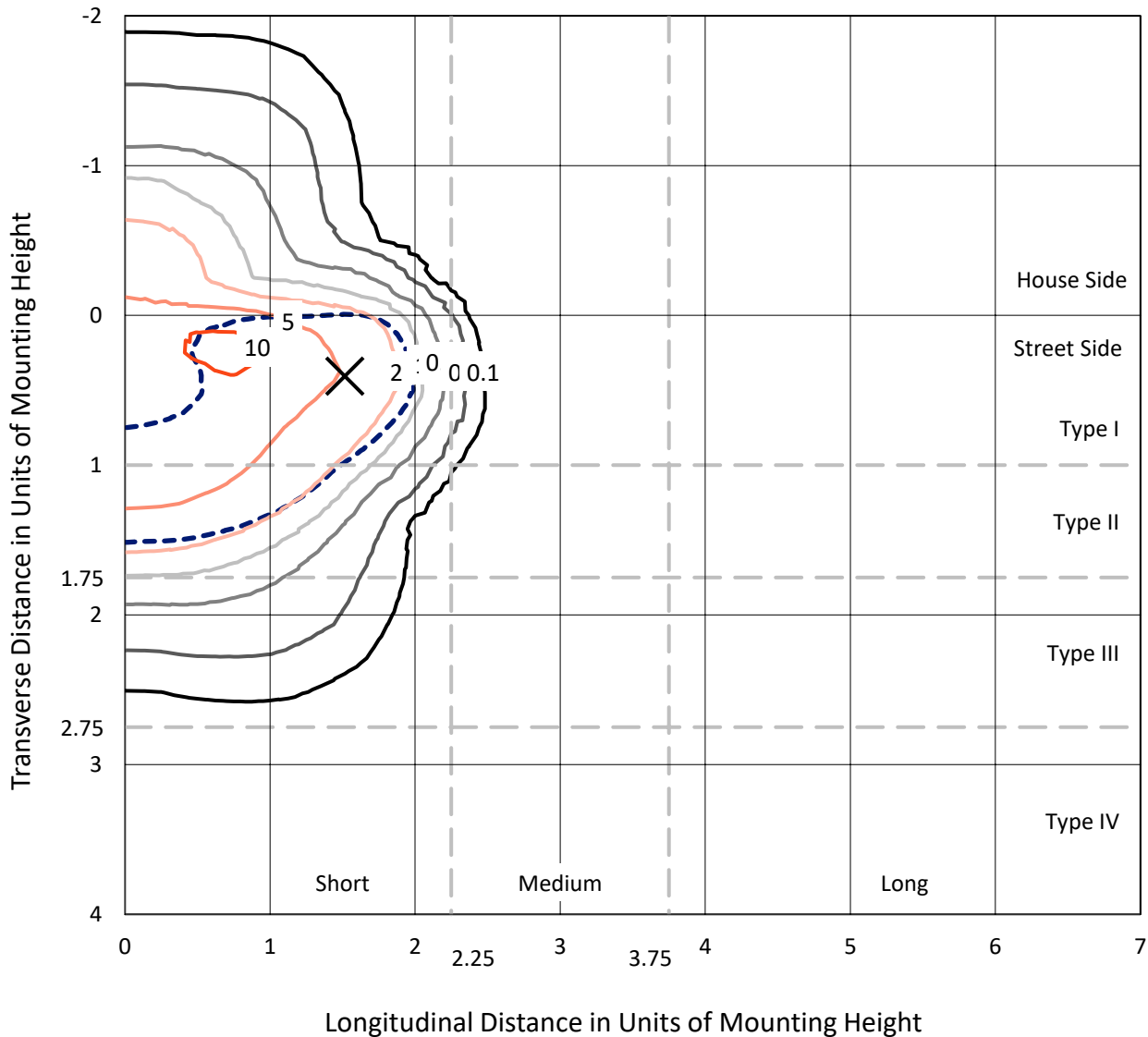
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

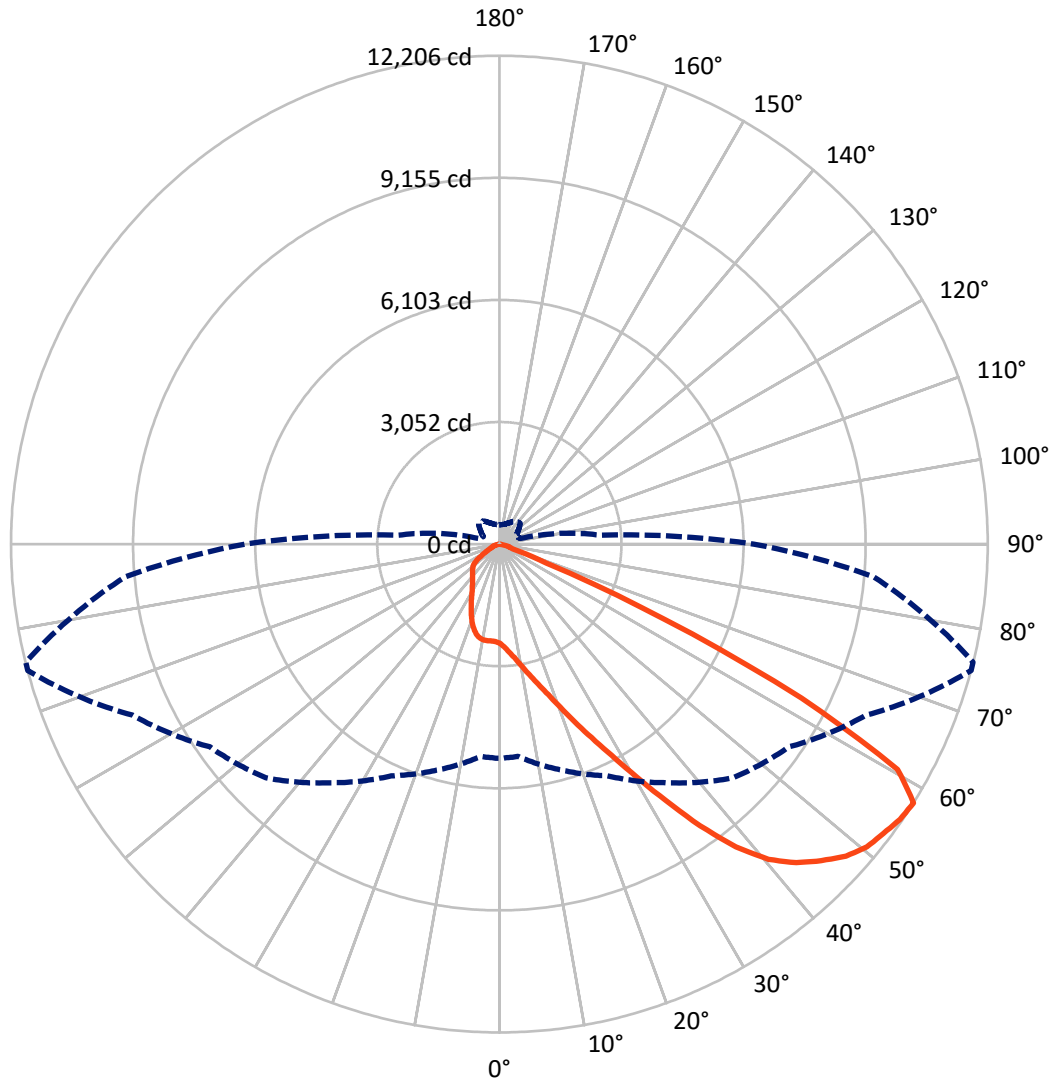
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.6 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	2431.8	0.0	2431.8
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	12455.2	0.0	12455.2
	% Fixture	83.7	0.0	83.7
Total	Lumens	14887.0	0.0	14887.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.7	1.7
10°-20°	820.8	5.5
20°-30°	1503.0	10.1
30°-40°	2493.6	16.8
40°-50°	3808.3	25.6
50°-60°	4279.3	28.7
60°-70°	1578.4	10.6
70°-80°	150.9	1.0
80°-90°	0.1	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°	14887.0	100.0
0°-180°	14887.0	100.0

Coefficient of Utilization



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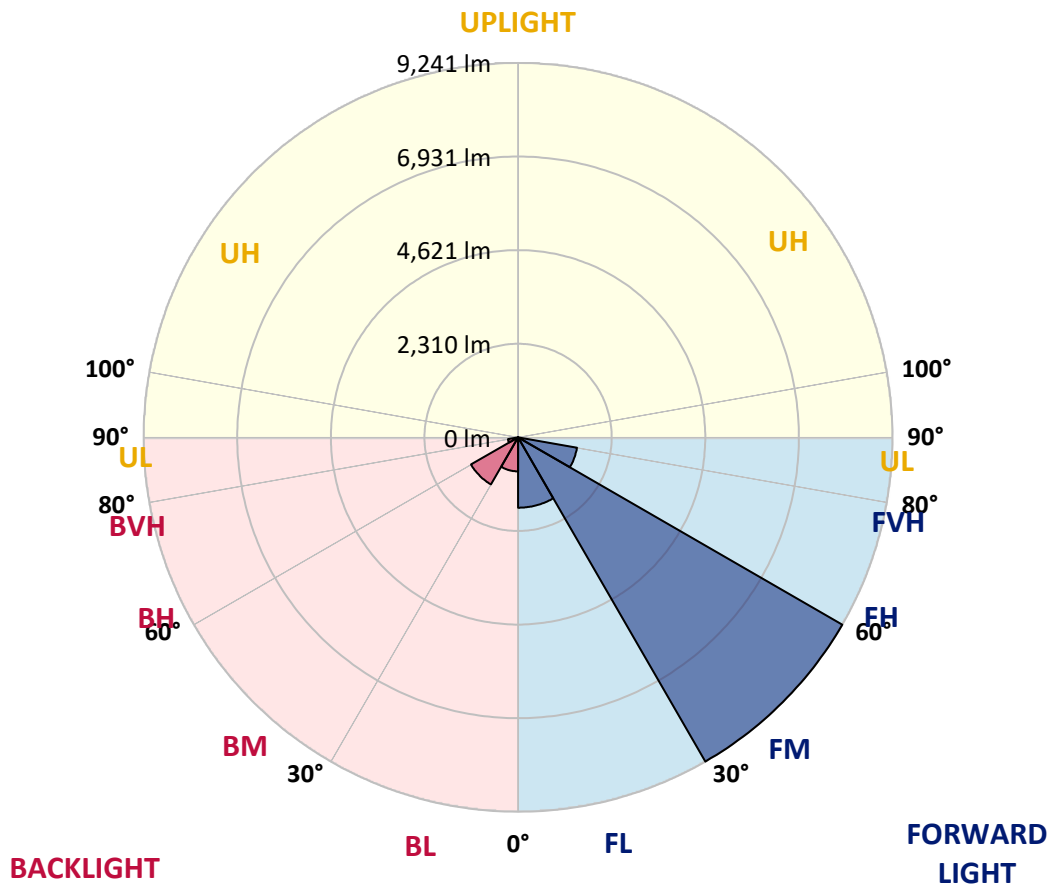
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1737.3	11.7			
FM (30°-60°)	9241.2	62.1			
FH (60°-80°)	1476.7	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	839.1	5.6	B2/1000		
BM (30°-60°)	1340.1	9.0	B2/2500		
BH (60°-80°)	252.5	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: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2482.9	2482.9	2482.9	2482.9	2482.9	2482.9	2482.9	2482.9	2482.9	2482.9	2482.9
2.5°	2774.0	2802.7	2793.8	2775.8	2765.0	2727.3	2703.9	2635.7	2587.1	2581.8	2536.8
5°	3124.3	3119.0	3111.8	3090.2	3072.2	3013.0	2942.9	2827.9	2725.5	2712.9	2617.7
7.5°	3316.6	3320.2	3323.8	3320.2	3307.6	3262.7	3185.4	3050.7	2894.4	2883.6	2732.7
10°	3395.6	3402.8	3420.8	3454.9	3485.5	3481.9	3437.0	3298.6	3106.4	3088.4	2885.4
12.5°	3433.4	3442.3	3471.1	3535.8	3618.4	3683.1	3690.3	3566.3	3354.3	3325.6	3066.8
15°	3485.5	3494.4	3530.4	3614.8	3735.2	3862.8	3945.4	3866.4	3629.2	3598.7	3266.3
17.5°	3508.8	3521.4	3573.5	3684.9	3841.2	4037.0	4223.9	4216.7	3954.4	3931.0	3498.0
20°	3553.7	3562.7	3609.4	3729.8	3918.5	4200.5	4514.9	4628.1	4351.4	4317.3	3778.3
22.5°	3695.7	3699.3	3720.8	3796.3	3972.4	4319.1	4811.4	5107.8	4820.4	4775.4	4092.7
25°	3927.4	3925.6	3934.6	3947.2	4076.6	4439.5	5097.0	5648.6	5357.6	5309.0	4448.5
27.5°	4222.1	4222.1	4243.6	4207.7	4259.8	4588.6	5379.1	6270.2	5982.8	5914.5	4838.3
30°	4568.8	4567.0	4617.3	4559.9	4576.0	4824.0	5682.7	6947.6	6737.4	6652.9	5287.5
32.5°	5039.6	5028.8	5086.3	5007.2	4953.3	5179.7	6052.9	7655.4	7641.1	7511.7	5851.6
35°	5634.2	5616.3	5634.2	5557.0	5460.0	5677.4	6537.9	8361.5	8643.6	8507.0	6523.6
37.5°	6225.3	6282.8	6302.6	6169.6	6090.6	6308.0	7121.8	8993.9	9601.2	9459.3	7222.5
40°	6922.4	6904.5	6972.7	6823.6	6773.3	7014.0	7693.2	9464.7	10359.4	10224.6	7844.1
42.5°	7436.3	7468.6	7553.0	7470.4	7430.9	7657.2	8172.9	9739.5	10885.8	10752.8	8287.9
45°	8052.5	8075.9	8108.2	8039.9	7998.6	8221.4	8519.6	9859.9	11286.4	11142.7	8586.1
47.5°	8719.1	8737.0	8737.0	8596.9	8463.9	8555.6	8751.4	9928.2	11654.7	11516.4	8807.1
50°	9197.0	9205.9	9285.0	9186.2	8896.9	8755.0	8857.4	9994.7	11899.1	11769.7	8879.0
52.5°	8773.0	8762.2	9022.7	9227.5	9304.8	9022.7	9040.6	10091.7	12017.7	11906.3	8936.4
55°	7387.7	7369.8	7736.3	8234.0	8914.9	9276.0	9261.6	10149.2	12148.8	12080.5	9144.9
57.5°	5355.8	5325.2	5835.5	6388.8	7281.7	8260.9	8835.8	10116.8	12206.3	12200.9	9387.4
60°	3219.6	3194.4	3675.9	4258.0	4947.9	5932.5	6886.5	9062.2	11437.4	11448.1	8756.8
62.5°	1981.7	2005.0	2439.8	2736.3	2993.2	3289.6	3841.2	6096.0	8472.9	8543.0	6153.5
65°	1333.1	1351.1	1753.5	2127.2	2127.2	1739.1	1493.0	2914.1	4520.3	4401.7	2910.5
67.5°	894.7	914.5	1232.5	1669.1	1732.0	1212.7	605.5	869.6	1259.4	1221.7	720.4
70°	526.4	548.0	821.1	1144.5	1261.2	844.4	404.2	368.3	357.5	346.7	280.3
72.5°	235.4	244.3	418.6	582.1	531.8	355.7	285.7	294.6	278.5	273.1	228.2
75°	71.9	75.5	107.8	125.8	127.6	127.6	172.5	231.8	219.2	221.0	176.1
77.5°	18.0	18.0	28.7	26.9	14.4	12.6	32.3	52.1	53.9	48.5	35.9
80°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
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°	2482.9	2482.9	2482.9	2482.9	2482.9	2482.9	2482.9	2482.9	2482.9	2482.9	2482.9
2.5°	2517.1	2470.4	2439.8	2396.7	2366.2	2333.8	2305.1	2281.7	2269.1	2265.6	2267.3
5°	2574.6	2500.9	2429.0	2346.4	2288.9	2235.0	2191.9	2157.8	2141.6	2136.2	2136.2
7.5°	2662.6	2560.2	2432.6	2303.3	2206.3	2121.8	2071.5	2033.8	2019.4	2015.8	2005.0
10°	2777.6	2637.5	2427.2	2226.0	2089.5	2001.4	1965.5	1954.7	1960.1	1961.9	1960.1
12.5°	2915.9	2718.3	2393.1	2112.8	1965.5	1911.6	1915.2	1944.0	1976.3	1992.5	1996.1
15°	3063.3	2792.0	2315.9	1978.1	1859.5	1857.7	1909.8	1976.3	2039.2	2066.1	2073.3
17.5°	3228.5	2851.3	2197.3	1834.4	1767.9	1820.0	1913.4	2015.8	2100.3	2145.2	2154.2
20°	3410.0	2899.8	2046.4	1699.6	1687.0	1780.5	1909.8	2035.6	2139.8	2190.1	2199.1
22.5°	3598.7	2933.9	1872.1	1575.6	1613.4	1735.5	1875.7	1997.9	2096.7	2154.2	2161.3
25°	3814.2	2937.5	1694.2	1471.4	1545.1	1674.5	1793.0	1893.6	1976.3	2026.6	2032.0
27.5°	4002.9	2894.4	1536.1	1387.0	1482.2	1599.0	1678.1	1733.7	1791.2	1820.0	1821.8
30°	4220.3	2818.9	1387.0	1318.7	1417.5	1505.6	1545.1	1557.7	1563.1	1568.5	1561.3
32.5°	4479.0	2727.3	1275.6	1252.3	1343.9	1403.2	1413.9	1388.8	1358.3	1315.1	1304.4
35°	4797.0	2644.6	1184.0	1187.6	1263.0	1299.0	1290.0	1236.1	1176.8	1124.7	1115.7
37.5°	5142.0	2574.6	1113.9	1124.7	1175.0	1200.1	1173.2	1113.9	1087.0	1042.0	1043.8
40°	5447.4	2517.1	1051.0	1061.8	1085.2	1108.5	1065.4	1025.9	1076.2	1072.6	1076.2
42.5°	5664.8	2468.6	997.1	991.7	1007.9	1024.1	991.7	972.0	1056.4	1033.1	1045.6
45°	5792.3	2423.7	952.2	919.9	945.0	973.8	952.2	927.1	955.8	848.0	839.0
47.5°	5878.6	2398.5	912.7	849.8	894.7	945.0	900.1	839.0	797.7	704.3	697.1
50°	5887.6	2385.9	866.0	777.9	835.4	889.3	837.2	752.8	693.5	652.2	646.8
52.5°	5934.3	2411.1	801.3	686.3	749.2	835.4	799.5	715.1	634.2	598.3	591.1
55°	6142.7	2517.1	693.5	560.5	652.2	794.1	769.0	637.8	560.5	539.0	533.6
57.5°	6358.3	2538.6	546.2	443.8	567.7	734.8	702.5	587.5	512.0	486.9	481.5
60°	5813.9	2091.3	409.6	366.5	501.3	679.1	650.4	557.0	468.9	438.4	433.0
62.5°	3819.6	1130.1	325.2	310.8	422.2	574.9	592.9	503.1	418.6	386.3	384.5
65°	1760.7	524.6	249.7	246.1	330.6	458.1	510.2	440.2	353.9	325.2	325.2
67.5°	479.7	260.5	195.8	181.5	224.6	307.2	371.9	328.8	251.5	217.4	215.6
70°	239.0	210.2	176.1	156.3	161.7	190.4	219.2	183.3	127.6	104.2	102.4
72.5°	195.8	172.5	149.1	133.0	122.2	116.8	113.2	91.6	59.3	44.9	43.1
75°	145.5	124.0	106.0	86.2	73.7	68.3	61.1	44.9	25.2	14.4	12.6
77.5°	32.3	30.5	28.7	21.6	19.8	16.2	12.6	9.0	3.6	0.0	0.0
80°	1.8	1.8	1.8	1.8	1.8	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)