

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: P638557

Luminaire Tested: GWS-SA4F-722-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-722-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19619.4 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

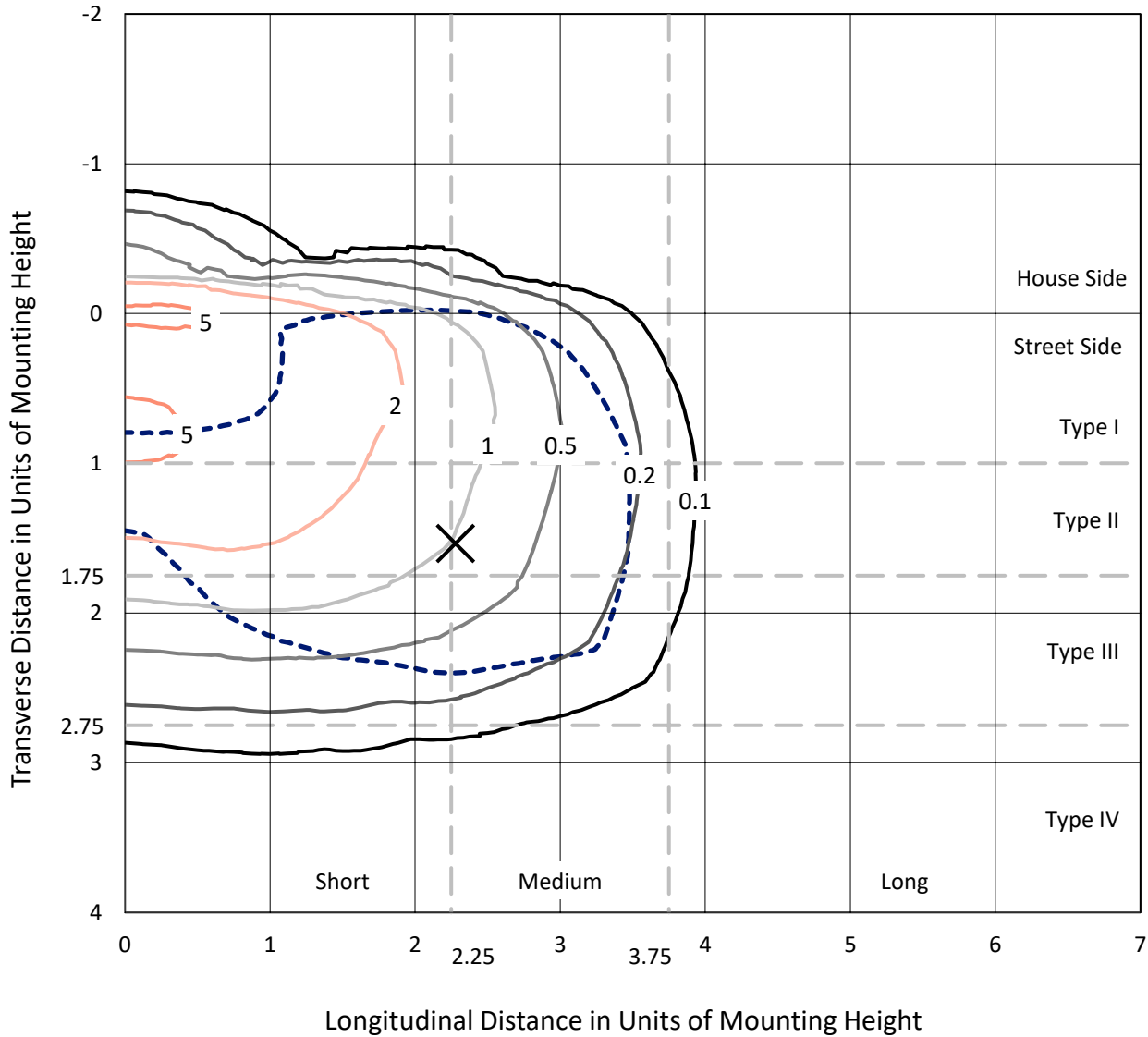
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

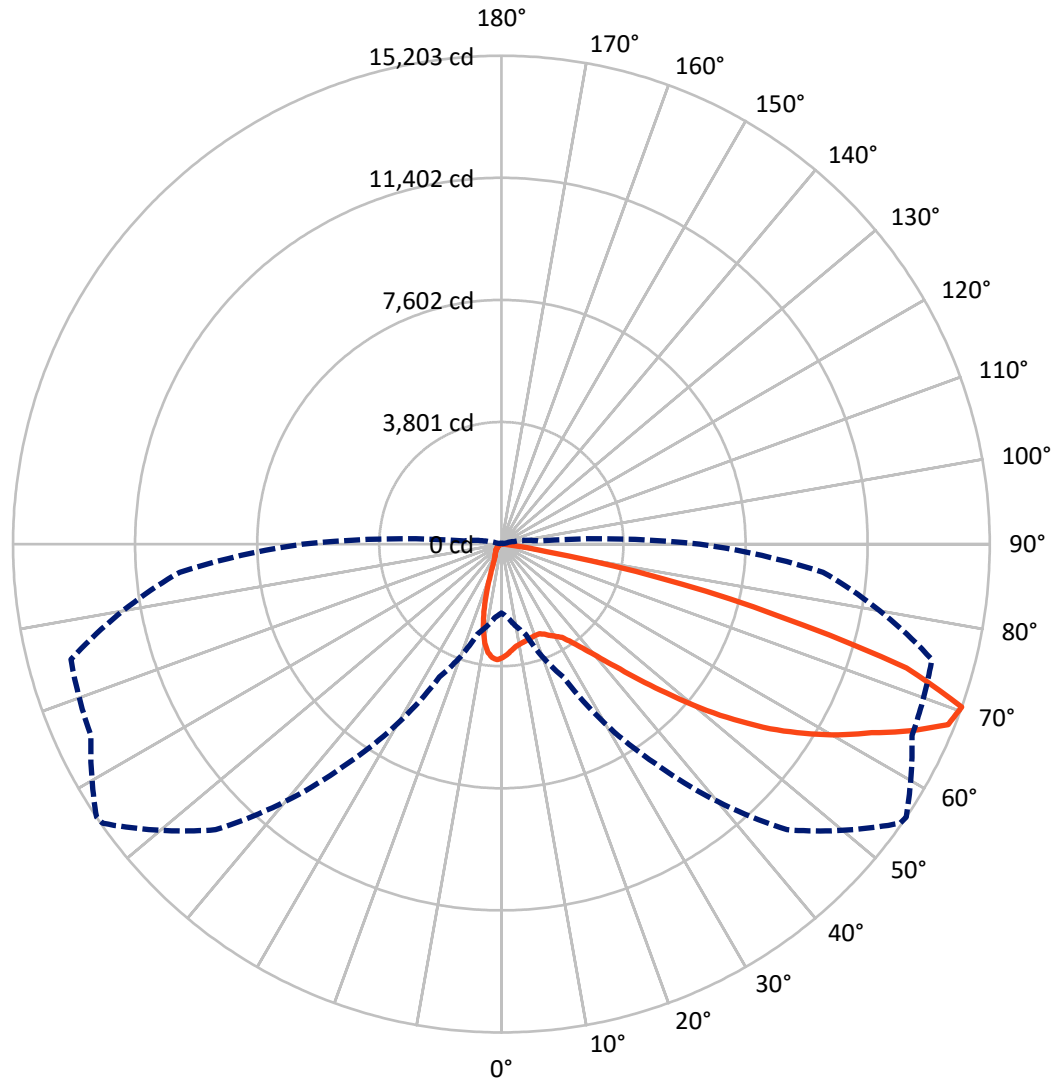
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1762.2	0.0	1762.2
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	17857.2	0.0	17857.2
	% Fixture	91.0	0.0	91.0
Total	Lumens	19619.4	0.0	19619.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.7	1.5
10°-20°	683.1	3.5
20°-30°	1082.1	5.5
30°-40°	1866.0	9.5
40°-50°	3151.1	16.1
50°-60°	4630.0	23.6
60°-70°	5489.1	28.0
70°-80°	2340.8	11.9
80°-90°	73.5	0.4
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°	19619.4	100.0
0°-180°	19619.4	100.0

Coefficient of Utilization



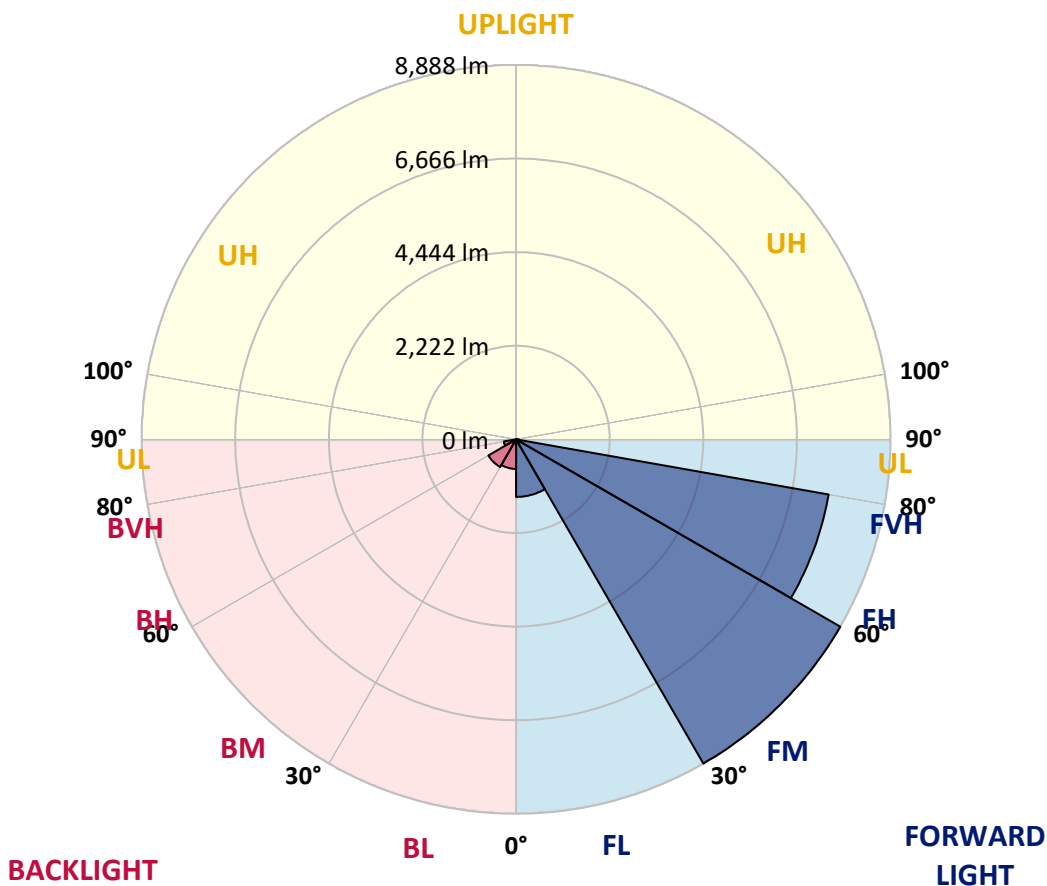
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1367.1	7.0			
FM (30°-60°)	8888.1	45.3			
FH (60°-80°)	7536.0	38.4			G4/12000
FVH (80°-90°)	66.0	0.3			G1/100
BL (0°-30°)	701.8	3.6	B2/1000		
BM (30°-60°)	759.0	3.9	B1/1000		
BH (60°-80°)	293.9	1.5	B1/500		G1/500
BVH (80°-90°)	7.5	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3537.6	3537.6	3537.6	3537.6	3537.6	3537.6	3537.6	3537.6	3537.6	3537.6	3537.6
2.5°	3293.2	3287.8	3291.4	3318.4	3368.7	3392.0	3431.6	3438.8	3471.1	3512.4	3528.6
5°	3079.4	3061.5	3070.5	3108.2	3165.7	3230.4	3304.0	3323.8	3404.6	3496.3	3564.5
7.5°	2883.6	2863.8	2885.4	2944.7	3025.5	3095.6	3205.2	3217.8	3347.1	3508.8	3632.8
10°	2576.4	2581.8	2624.9	2729.1	2853.1	2998.6	3145.9	3163.9	3323.8	3550.2	3742.4
12.5°	2341.0	2328.4	2375.2	2493.7	2668.0	2880.0	3101.0	3124.3	3325.6	3613.0	3882.5
15°	2231.4	2227.8	2247.6	2333.8	2502.7	2752.4	3059.7	3090.2	3348.9	3670.5	4015.5
17.5°	2235.0	2229.6	2227.8	2278.1	2403.9	2657.2	3014.8	3054.3	3368.7	3733.4	4155.6
20°	2391.3	2366.2	2321.3	2297.9	2373.4	2596.1	2984.2	3029.1	3397.4	3799.9	4304.7
22.5°	2718.3	2727.3	2606.9	2481.2	2445.2	2603.3	2980.6	3032.7	3460.3	3904.1	4488.0
25°	3372.3	3357.9	3135.1	2853.1	2657.2	2686.0	3043.5	3106.4	3584.3	4053.2	4660.5
27.5°	4191.6	4204.1	3898.7	3449.5	3039.9	2856.7	3158.5	3221.4	3728.0	4146.6	4775.5
30°	5084.5	5071.9	4744.9	4247.2	3582.5	3140.5	3273.5	3329.2	3799.9	4196.9	4894.0
32.5°	5928.9	5900.2	5576.8	5055.7	4274.2	3587.9	3431.6	3463.9	3895.1	4306.5	5053.9
35°	6649.3	6647.6	6365.5	5810.3	4985.7	4148.4	3702.9	3729.8	4073.0	4480.8	5289.3
37.5°	7393.2	7368.0	7051.8	6545.1	5716.9	4762.9	4117.9	4107.1	4353.2	4737.7	5578.6
40°	8004.0	7987.8	7745.3	7258.4	6476.9	5442.0	4620.9	4588.6	4685.6	5093.5	5981.0
42.5°	8456.8	8458.6	8383.1	8086.7	7281.8	6227.1	5253.4	5203.1	5201.3	5630.7	6512.8
45°	8799.9	8823.3	8936.5	8891.5	8232.2	7141.6	6063.6	6011.5	5923.5	6327.8	7121.9
47.5°	8959.8	8990.4	9331.7	9511.4	9064.0	8048.9	7028.4	6918.8	6746.4	7254.8	7802.8
50°	8943.7	8997.6	9473.7	10019.8	9818.6	8968.8	8079.5	8027.4	7745.3	8235.8	8476.5
52.5°	8577.1	8692.1	9482.6	10328.9	10398.9	9816.8	9166.4	9069.4	8932.9	9259.9	9108.9
55°	7581.8	7721.9	9103.6	10427.7	10851.7	10557.0	10230.0	10151.0	9924.6	10226.4	9660.5
57.5°	7041.0	7161.4	8305.8	10379.2	11236.2	11241.5	11176.9	11112.2	10925.3	11182.3	10307.3
60°	6715.8	6836.2	7880.0	10201.3	11584.7	11963.8	12066.2	12059.0	11789.5	12269.2	11065.5
62.5°	6239.7	6405.0	7436.3	9739.6	11832.6	12675.3	12984.3	12935.8	12635.7	13401.1	11816.5
65°	5278.5	5422.2	6527.2	8977.8	11687.1	13264.6	13979.6	14004.8	13658.0	14466.5	12409.4
67.5°	3701.1	3807.1	4904.8	7378.8	10699.0	13458.6	14998.3	14996.5	14405.4	15012.7	12147.1
70°	2145.2	2290.7	2898.0	4561.7	8323.8	12576.4	15151.0	15203.1	14101.8	13871.8	10052.2
72.5°	830.0	950.4	1642.1	2423.7	4340.7	9633.6	13032.8	13185.5	11802.1	10700.8	6996.1
75°	247.9	276.7	772.6	1290.0	1742.7	4653.3	8823.3	8866.4	8095.6	6674.5	3586.1
77.5°	185.1	204.8	337.8	652.2	610.9	1410.4	4565.3	4985.7	4297.6	2384.1	988.1
80°	125.8	149.1	240.7	318.0	226.4	375.5	1282.8	1408.6	1311.5	535.4	247.9
82.5°	55.7	71.9	170.7	159.9	82.6	107.8	395.3	420.4	271.3	161.7	86.2
85°	5.4	7.2	64.7	70.1	30.5	25.2	82.6	82.6	59.3	55.7	35.9
87.5°	0.0	0.0	1.8	3.6	3.6	5.4	7.2	9.0	10.8	14.4	18.0
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°	3537.6	3537.6	3537.6	3537.6	3537.6	3537.6	3537.6	3537.6	3537.6	3537.6	3537.6
2.5°	3569.9	3548.4	3575.3	3596.9	3602.3	3562.7	3539.4	3505.2	3498.0	3499.8	3490.9
5°	3618.4	3607.6	3627.4	3604.1	3543.0	3428.0	3329.2	3219.6	3160.3	3126.1	3122.6
7.5°	3708.3	3702.9	3681.3	3575.3	3384.9	3129.7	2883.6	2642.9	2493.7	2439.8	2430.8
10°	3841.2	3830.4	3742.4	3490.9	3084.8	2594.3	2181.1	1836.2	1626.0	1564.9	1489.4
12.5°	3993.9	3972.4	3780.1	3309.4	2632.1	1952.9	1437.3	1051.0	869.6	815.7	815.7
15°	4141.2	4094.5	3758.6	3009.4	2075.1	1270.2	803.1	607.3	551.6	537.2	537.2
17.5°	4292.2	4202.3	3674.1	2599.7	1433.7	751.0	535.4	497.7	490.5	492.3	494.1
20°	4434.1	4294.0	3525.0	2107.5	914.5	524.6	479.7	470.7	467.1	470.7	468.9
22.5°	4588.6	4378.4	3298.6	1570.3	594.7	472.5	456.3	449.2	445.6	451.0	451.0
25°	4741.3	4439.5	2998.6	1056.4	472.5	440.2	431.2	424.0	420.4	422.2	422.2
27.5°	4820.4	4416.1	2605.1	673.7	424.0	407.8	398.9	389.9	384.5	382.7	384.5
30°	4874.3	4344.3	2123.6	479.7	384.5	364.7	355.7	348.5	334.2	325.2	328.8
32.5°	4958.7	4272.4	1600.8	402.4	352.1	321.6	307.2	289.3	269.5	260.5	260.5
35°	5059.3	4173.6	1122.9	362.9	318.0	285.7	258.7	228.2	204.8	197.6	197.6
37.5°	5192.3	4080.2	747.4	336.0	289.3	255.1	217.4	181.5	156.3	152.7	150.9
40°	5391.7	4001.1	526.4	316.2	264.1	222.8	177.9	140.1	122.2	116.8	116.8
42.5°	5650.4	3920.3	416.8	296.4	242.5	192.2	141.9	111.4	97.0	93.4	91.6
45°	5970.2	3825.0	362.9	278.5	221.0	159.9	113.2	93.4	82.6	79.1	79.1
47.5°	6317.0	3695.7	337.8	255.1	195.8	129.4	95.2	80.8	75.5	73.7	71.9
50°	6658.3	3521.4	316.2	233.6	167.1	106.0	82.6	73.7	70.1	68.3	68.3
52.5°	6956.6	3318.4	289.3	208.4	136.5	91.6	73.7	68.3	64.7	61.1	59.3
55°	7211.7	3097.4	255.1	179.7	111.4	80.8	68.3	62.9	59.3	55.7	53.9
57.5°	7540.5	2971.6	204.8	145.5	91.6	71.9	62.9	57.5	53.9	48.5	48.5
60°	7905.2	2880.0	152.7	115.0	79.1	66.5	57.5	52.1	48.5	43.1	43.1
62.5°	8198.0	2743.5	120.4	93.4	68.3	59.3	52.1	46.7	43.1	37.7	37.7
65°	8309.4	2461.4	98.8	73.7	55.7	52.1	46.7	43.1	37.7	32.3	32.3
67.5°	7806.4	1897.2	82.6	59.3	46.7	44.9	41.3	39.5	32.3	28.7	26.9
70°	6182.2	1157.0	68.3	48.5	39.5	37.7	37.7	34.1	28.7	26.9	25.2
72.5°	4236.5	596.5	55.7	39.5	34.1	34.1	32.3	30.5	26.9	25.2	25.2
75°	2200.9	199.4	43.1	30.5	26.9	28.7	28.7	26.9	25.2	25.2	23.4
77.5°	630.6	89.8	32.3	23.4	21.6	21.6	23.4	23.4	23.4	21.6	21.6
80°	163.5	52.1	23.4	18.0	18.0	18.0	18.0	19.8	21.6	19.8	19.8
82.5°	66.5	28.7	16.2	14.4	14.4	14.4	14.4	16.2	18.0	18.0	18.0
85°	41.3	14.4	12.6	12.6	12.6	10.8	10.8	12.6	12.6	14.4	14.4
87.5°	25.2	10.8	10.8	10.8	10.8	9.0	9.0	9.0	9.0	9.0	9.0
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)