

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: P637762

Luminaire Tested: GWS-SA4D-740-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-740-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19295.2 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

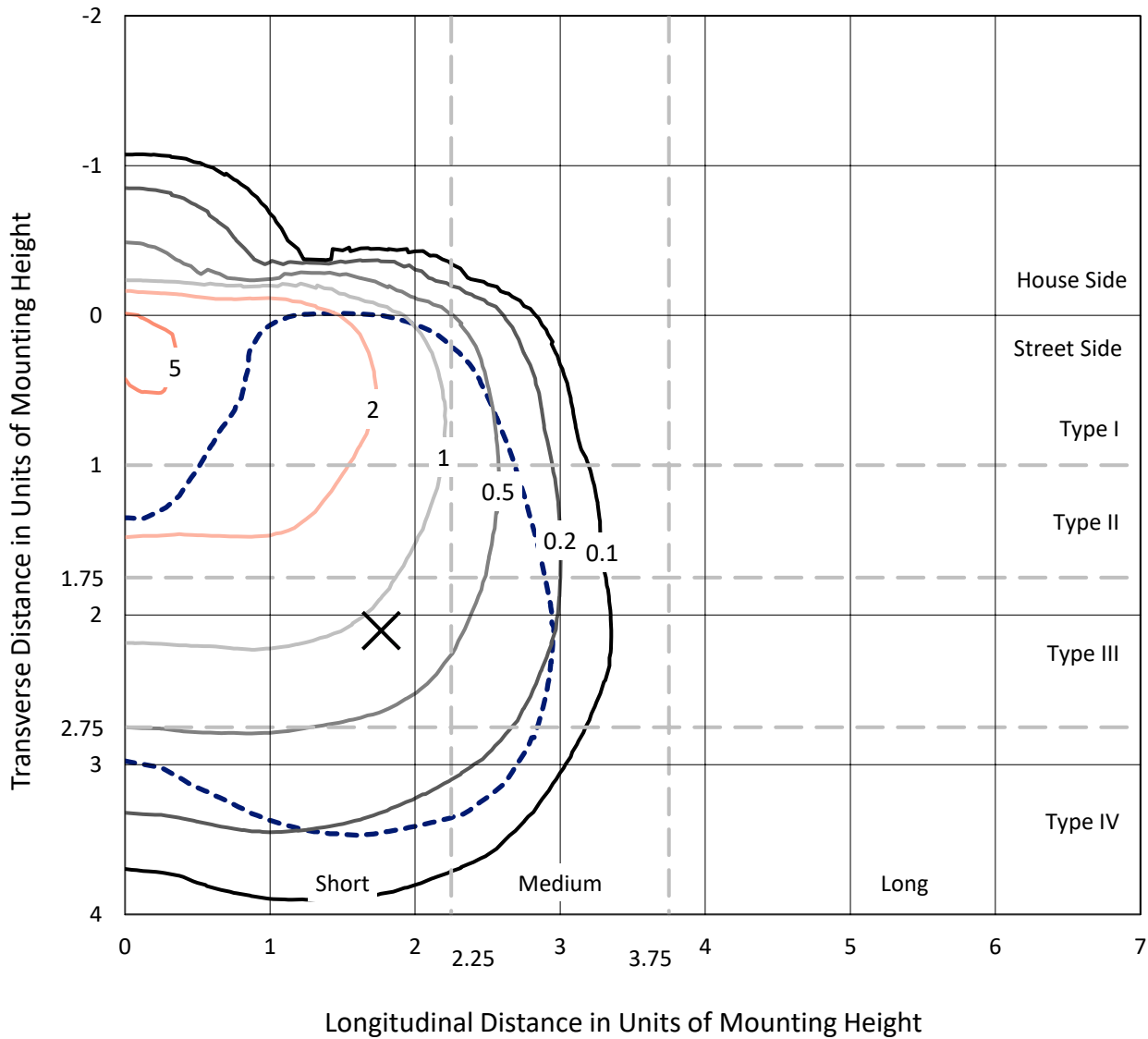
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

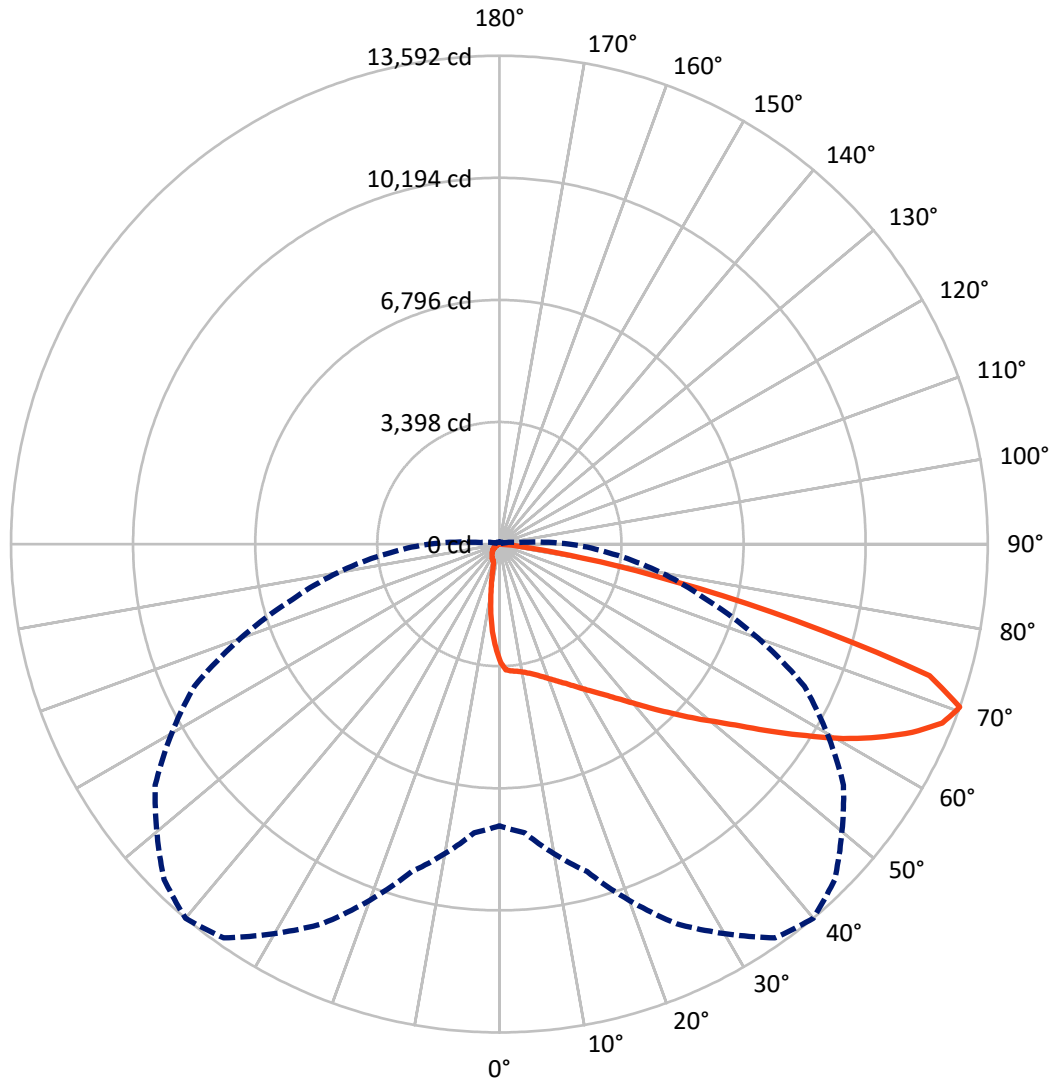
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1577.9	0.0	1577.9
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	17717.3	0.0	17717.3
	% Fixture	91.8	0.0	91.8
Total	Lumens	19295.2	0.0	19295.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.7	1.4
10°-20°	701.9	3.6
20°-30°	1174.7	6.1
30°-40°	1845.0	9.6
40°-50°	2918.3	15.1
50°-60°	4257.1	22.1
60°-70°	5277.3	27.4
70°-80°	2670.0	13.8
80°-90°	174.3	0.9
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°	19295.2	100.0
0°-180°	19295.2	100.0

Coefficient of Utilization



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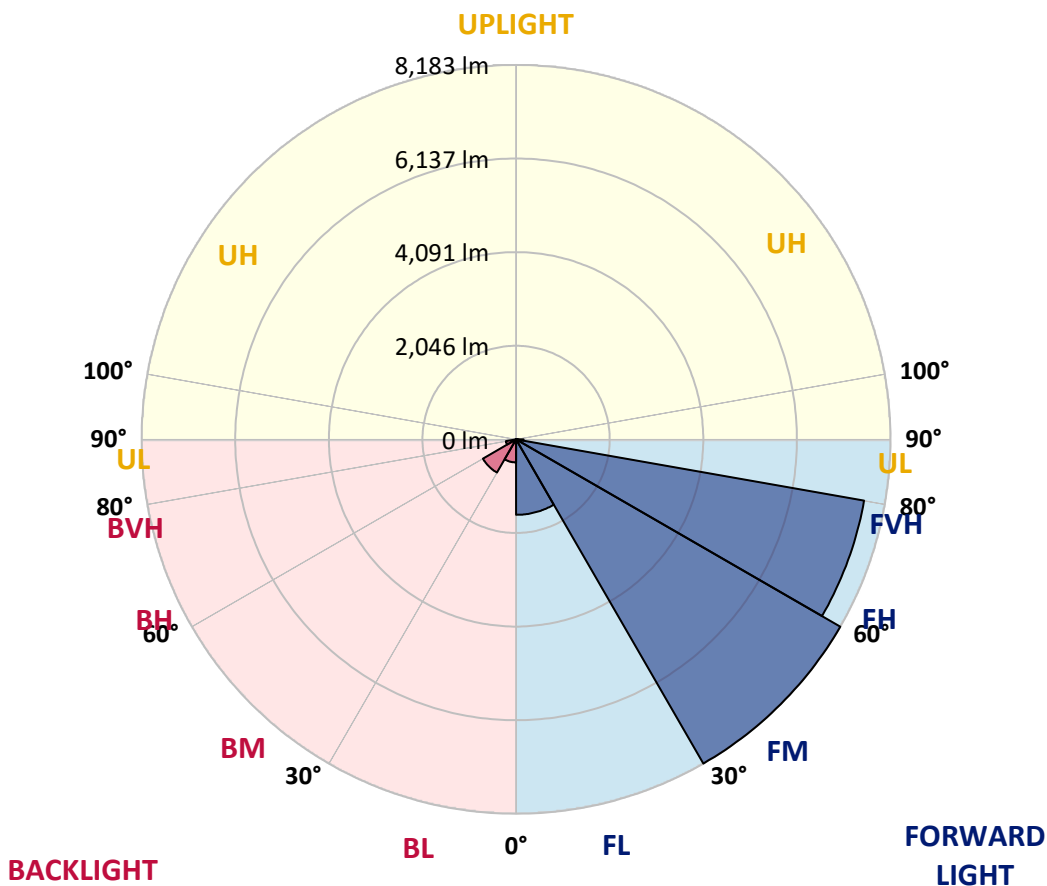
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1649.4	8.5			
FM (30°-60°)	8182.9	42.4			
FH (60°-80°)	7722.3	40.0			G4/12000
FVH (80°-90°)	162.8	0.8			G2/225
BL (0°-30°)	503.9	2.6	B2/1000		
BM (30°-60°)	837.5	4.3	B1/1000		
BH (60°-80°)	225.0	1.2	B1/500		G1/500
BVH (80°-90°)	11.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3274.2	3274.2	3274.2	3274.2	3274.2	3274.2	3274.2	3274.2	3274.2	3274.2	3274.2
2.5°	3519.9	3532.2	3530.5	3535.7	3523.5	3504.1	3500.6	3474.3	3426.9	3367.2	3300.5
5°	3591.9	3606.0	3595.4	3590.2	3567.3	3546.3	3541.0	3512.9	3458.5	3377.7	3261.9
7.5°	3653.4	3656.9	3649.9	3637.6	3604.2	3576.1	3556.8	3518.2	3453.2	3372.5	3239.1
10°	3663.9	3662.1	3665.7	3667.4	3646.3	3621.8	3606.0	3553.3	3470.8	3384.8	3240.8
12.5°	3651.6	3651.6	3674.4	3700.8	3700.8	3688.5	3672.7	3625.3	3528.7	3426.9	3275.9
15°	3667.4	3672.7	3716.6	3765.7	3781.5	3769.2	3762.2	3713.1	3613.0	3500.6	3339.1
17.5°	3723.6	3728.9	3799.1	3872.8	3892.1	3878.1	3864.0	3814.9	3707.8	3584.9	3411.1
20°	3806.1	3820.2	3909.7	4004.5	4022.0	4004.5	3976.4	3907.9	3800.8	3676.2	3479.6
22.5°	3957.1	3965.9	4062.4	4162.5	4171.3	4143.2	4101.0	4006.2	3893.9	3772.7	3556.8
25°	4157.2	4169.5	4266.1	4362.6	4339.8	4297.7	4239.7	4132.6	4004.5	3886.9	3655.1
27.5°	4396.0	4410.0	4504.8	4589.1	4529.4	4480.3	4415.3	4281.9	4152.0	4044.9	3781.5
30°	4654.1	4666.3	4750.6	4826.1	4747.1	4689.2	4611.9	4475.0	4343.3	4262.6	3960.6
32.5°	4903.3	4901.6	4982.3	5043.8	4963.0	4917.4	4847.2	4708.5	4603.1	4568.0	4227.4
35°	5135.1	5135.1	5201.8	5263.2	5205.3	5180.7	5115.8	5005.2	4945.5	4987.6	4583.8
37.5°	5368.6	5356.3	5419.5	5488.0	5482.7	5484.4	5447.6	5394.9	5398.4	5547.6	5073.6
40°	5561.7	5556.4	5630.2	5719.7	5789.9	5846.1	5823.3	5842.6	5953.2	6232.3	5700.4
42.5°	5716.2	5728.5	5823.3	5965.5	6142.8	6256.9	6272.7	6351.7	6636.1	7068.0	6407.9
45°	5893.5	5895.3	6026.9	6244.6	6527.3	6708.1	6771.3	6974.9	7378.7	7935.2	7183.8
47.5°	6111.2	6090.1	6237.6	6543.1	6952.1	7219.0	7331.3	7585.9	8210.9	8781.4	7815.9
50°	6351.7	6313.1	6479.9	6895.9	7427.9	7761.4	7989.7	8361.8	9036.0	9476.6	8286.4
52.5°	6630.8	6594.0	6783.6	7301.5	7998.4	8404.0	8697.2	9072.9	9743.5	10006.8	8567.2
55°	6985.5	6948.6	7148.7	7787.8	8672.6	9199.3	9506.5	9822.5	10401.8	10398.3	8770.9
57.5°	7378.7	7327.8	7605.2	8402.2	9513.5	10061.3	10373.7	10528.2	10902.2	10702.0	8907.8
60°	7829.9	7784.3	8168.7	9134.3	10484.3	10991.7	11188.3	11125.1	11313.0	10881.1	8860.4
62.5°	8237.2	8216.1	8693.7	9910.3	11409.5	11837.9	11892.3	11616.7	11614.9	10884.6	8540.9
65°	8660.3	8700.7	9409.9	10803.9	12340.0	12627.9	12534.9	12104.8	11736.1	10454.5	7596.4
67.5°	8818.3	8935.9	9882.2	11611.4	13073.8	13298.5	13135.3	12348.8	11232.2	9007.9	5784.6
70°	7842.2	8063.4	9436.3	11657.1	13377.5	13591.7	13200.2	11692.2	9364.3	5967.2	3168.8
72.5°	5963.7	6221.8	7863.3	9545.1	12031.0	12519.1	11850.2	9525.8	6035.7	2614.1	1063.9
75°	3337.4	3616.5	5856.6	7187.4	8077.4	8523.4	8277.6	6111.2	2673.8	682.9	317.8
77.5°	1128.8	1221.9	2724.7	4446.9	5331.7	4931.4	4174.8	3035.4	983.1	259.8	168.5
80°	668.9	704.0	1014.7	2213.8	2805.4	2326.1	1836.3	1121.8	500.3	138.7	117.6
82.5°	200.1	237.0	560.0	821.6	1099.0	684.7	579.3	640.8	259.8	75.5	98.3
85°	0.0	0.0	119.4	254.6	287.9	112.4	112.4	363.4	47.4	31.6	72.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	8.8	5.3	7.0	15.8
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°	3274.2	3274.2	3274.2	3274.2	3274.2	3274.2	3274.2	3274.2	3274.2	3274.2	3274.2
2.5°	3253.1	3191.7	3119.7	3051.2	2986.2	2902.0	2861.6	2812.4	2770.3	2747.5	2759.8
5°	3188.1	3091.6	2944.1	2794.9	2643.9	2501.7	2373.5	2287.5	2210.3	2169.9	2178.7
7.5°	3132.0	3002.0	2772.1	2528.0	2285.8	2041.7	1843.4	1688.9	1569.5	1520.3	1511.6
10°	3107.4	2944.1	2619.3	2268.2	1896.0	1567.7	1286.8	1116.6	995.4	935.7	946.3
12.5°	3119.7	2914.3	2489.4	2013.7	1530.9	1148.2	879.5	719.8	633.8	598.7	589.9
15°	3154.8	2907.2	2373.5	1753.8	1181.5	802.3	607.4	542.5	524.9	521.4	521.4
17.5°	3195.2	2909.0	2254.2	1490.5	897.1	595.1	519.7	507.4	502.1	498.6	500.3
20°	3235.5	2909.0	2117.2	1223.6	674.1	514.4	495.1	486.3	481.0	479.3	479.3
22.5°	3284.7	2909.0	1964.5	976.1	540.7	488.1	472.3	467.0	461.7	460.0	458.2
25°	3344.4	2910.8	1796.0	763.7	491.6	465.2	452.9	447.7	442.4	438.9	438.9
27.5°	3430.4	2924.8	1609.9	595.1	463.5	444.2	433.6	428.4	423.1	417.8	417.8
30°	3555.1	2959.9	1401.0	491.6	437.1	421.3	410.8	407.3	402.0	396.8	395.0
32.5°	3741.1	3021.4	1185.0	440.7	412.6	396.8	384.5	381.0	375.7	370.4	368.7
35°	4001.0	3133.7	974.3	409.1	381.0	365.2	358.1	356.4	349.4	344.1	344.1
37.5°	4381.9	3316.3	772.5	377.5	354.6	342.3	333.6	330.0	323.0	317.8	316.0
40°	4847.2	3553.3	600.4	352.9	330.0	317.8	309.0	303.7	294.9	287.9	284.4
42.5°	5440.6	3843.0	474.0	326.5	307.2	294.9	287.9	277.4	265.1	254.6	252.8
45°	6058.5	4141.4	391.5	302.0	286.2	275.6	266.8	252.8	235.2	223.0	219.4
47.5°	6532.5	4327.5	342.3	275.6	263.3	254.6	244.0	226.5	205.4	191.4	187.8
50°	6871.4	4355.6	305.5	251.0	244.0	235.2	219.4	198.4	175.6	161.5	158.0
52.5°	7038.1	4229.2	275.6	228.2	223.0	214.2	194.9	172.0	147.5	133.4	129.9
55°	7113.6	3990.4	247.5	208.9	201.9	191.4	170.3	145.7	121.1	108.8	105.3
57.5°	7083.8	3637.6	223.0	189.6	180.8	168.5	145.7	119.4	100.1	87.8	86.0
60°	6862.6	3142.5	198.4	170.3	159.8	145.7	122.9	98.3	80.8	72.0	70.2
62.5°	6385.1	2528.0	173.8	147.5	140.4	126.4	105.3	80.8	66.7	61.4	59.7
65°	5407.2	1787.2	149.2	124.6	121.1	107.1	87.8	66.7	57.9	54.4	52.7
67.5°	3886.9	1086.7	126.4	107.1	103.6	91.3	73.7	57.9	52.7	50.9	50.9
70°	1954.0	514.4	100.1	87.8	87.8	75.5	63.2	52.7	50.9	49.2	49.2
72.5°	663.6	219.4	75.5	68.5	72.0	65.0	54.4	49.2	49.2	49.2	49.2
75°	226.5	115.9	52.7	49.2	52.7	52.7	47.4	47.4	49.2	49.2	49.2
77.5°	147.5	77.2	36.9	33.4	40.4	40.4	40.4	43.9	47.4	47.4	47.4
80°	121.1	42.1	24.6	22.8	29.8	29.8	33.4	40.4	43.9	43.9	43.9
82.5°	103.6	26.3	14.0	15.8	21.1	22.8	28.1	33.4	38.6	40.4	40.4
85°	70.2	14.0	10.5	12.3	14.0	17.6	22.8	28.1	31.6	35.1	35.1
87.5°	19.3	5.3	7.0	8.8	8.8	12.3	17.6	21.1	24.6	26.3	26.3
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)