

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: P639797

Luminaire Tested: GWS-SA5C-750-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639797
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-SA5C-750-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19192.1 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

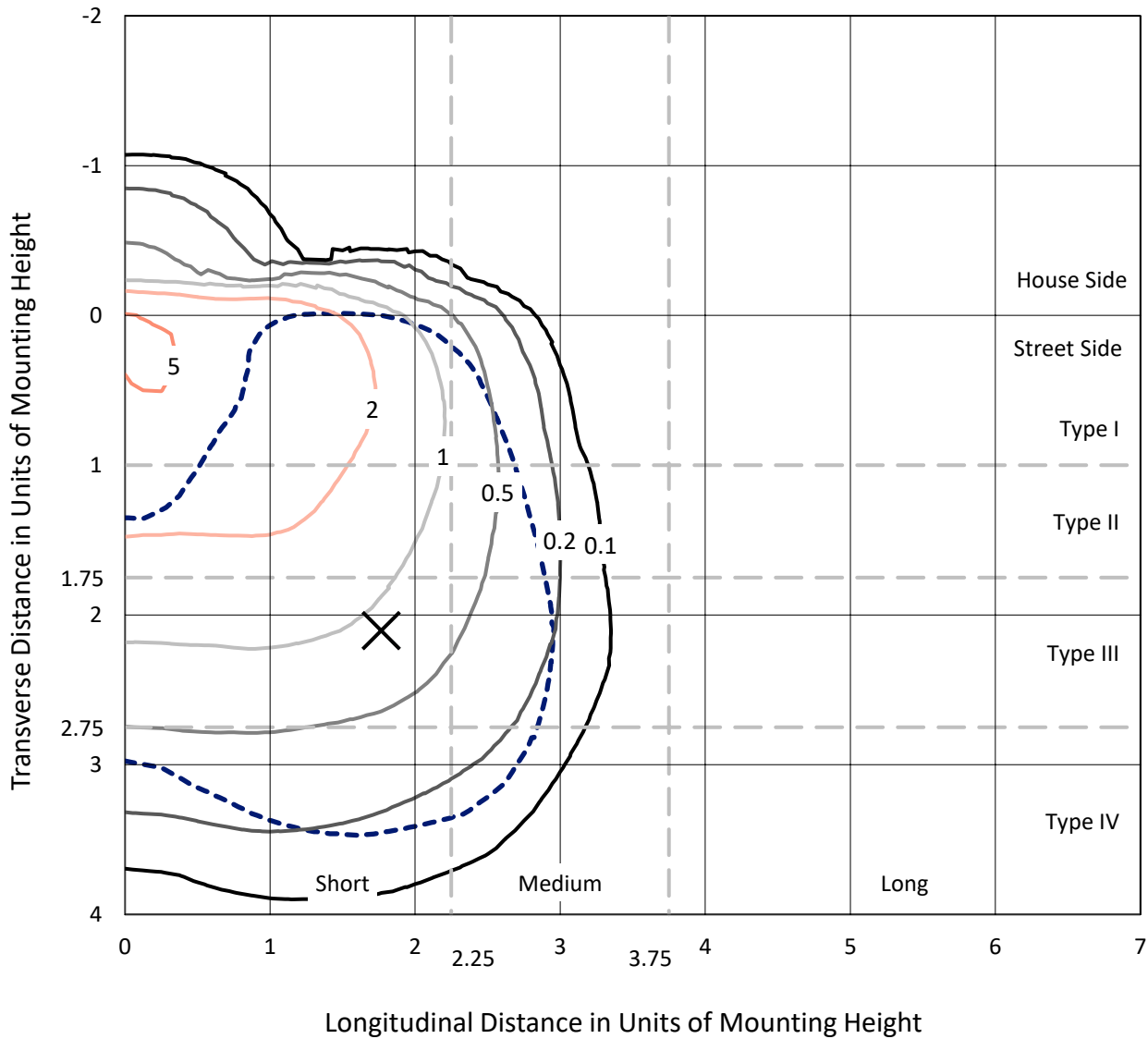
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

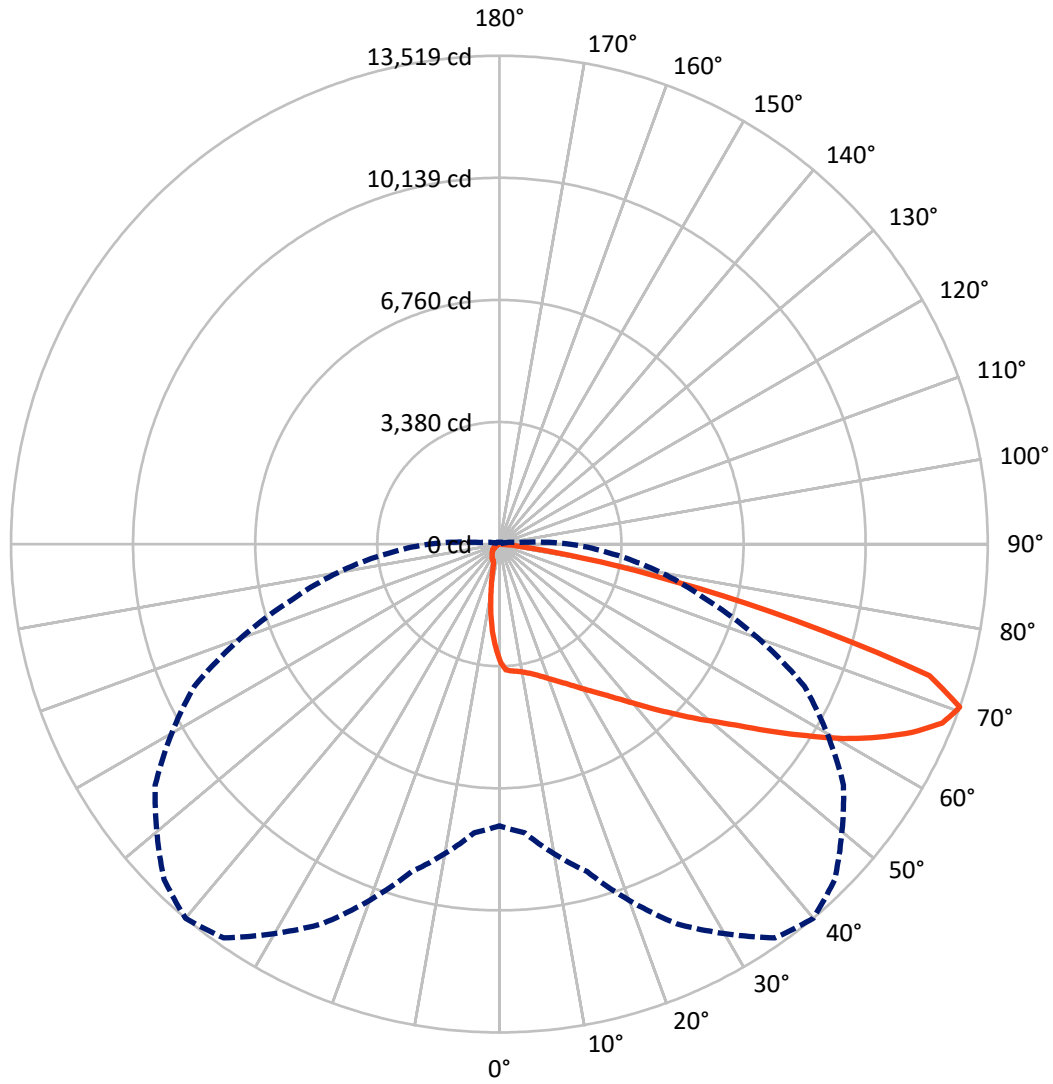
✕ Max cd
 - - - 1/2 Max cd



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	1569.4	0.0	1569.4
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	17622.7	0.0	17622.7
	% Fixture	91.8	0.0	91.8
Total	Lumens	19192.1	0.0	19192.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.3	1.4
10°-20°	698.1	3.6
20°-30°	1168.4	6.1
30°-40°	1835.1	9.6
40°-50°	2902.7	15.1
50°-60°	4234.3	22.1
60°-70°	5249.1	27.4
70°-80°	2655.7	13.8
80°-90°	173.4	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°	19192.1	100.0
0°-180°	19192.1	100.0

Coefficient of Utilization



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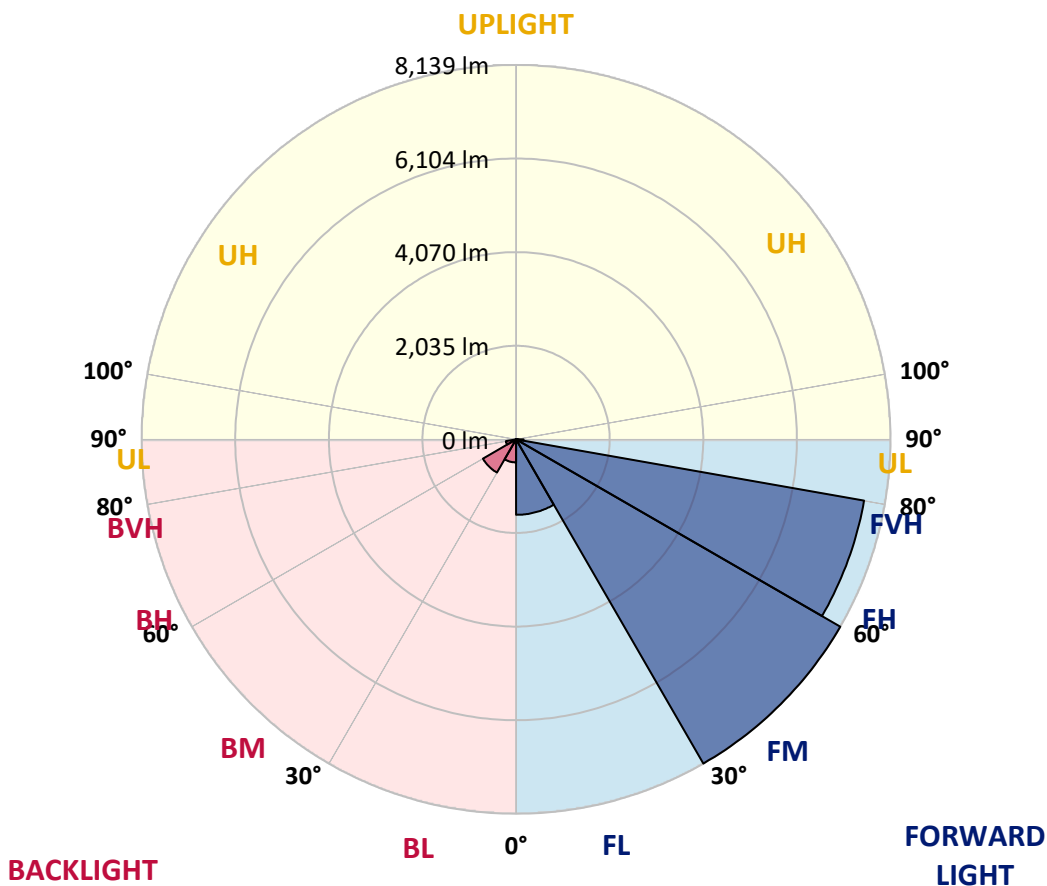
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1640.6	8.5			
FM (30°-60°)	8139.2	42.4			
FH (60°-80°)	7681.0	40.0			G4/12000
FVH (80°-90°)	161.9	0.8			G2/225
BL (0°-30°)	501.2	2.6	B2/1000		
BM (30°-60°)	833.0	4.3	B1/1000		
BH (60°-80°)	223.8	1.2	B1/500		G1/500
BVH (80°-90°)	11.4	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°	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7
2.5°	3501.1	3513.4	3511.6	3516.9	3504.6	3485.4	3481.9	3455.7	3408.6	3349.2	3282.9
5°	3572.7	3586.7	3576.2	3571.0	3548.3	3527.3	3522.1	3494.2	3440.0	3359.7	3244.4
7.5°	3633.8	3637.3	3630.4	3618.1	3585.0	3557.0	3537.8	3499.4	3434.8	3354.5	3221.7
10°	3644.3	3642.6	3646.1	3647.8	3626.9	3602.4	3586.7	3534.3	3452.2	3366.7	3223.5
12.5°	3632.1	3632.1	3654.8	3681.0	3681.0	3668.8	3653.1	3605.9	3509.9	3408.6	3258.4
15°	3647.8	3653.1	3696.7	3745.6	3761.3	3749.1	3742.1	3693.2	3593.7	3481.9	3321.3
17.5°	3703.7	3708.9	3778.8	3852.1	3871.3	3857.4	3843.4	3794.5	3688.0	3565.7	3392.9
20°	3785.8	3799.7	3888.8	3983.1	4000.6	3983.1	3955.2	3887.0	3780.5	3656.5	3461.0
22.5°	3935.9	3944.7	4040.7	4140.2	4149.0	4121.0	4079.1	3984.8	3873.1	3752.6	3537.8
25°	4135.0	4147.2	4243.3	4339.3	4316.6	4274.7	4217.1	4110.6	3983.1	3866.1	3635.6
27.5°	4372.5	4386.5	4480.8	4564.6	4505.2	4456.3	4391.7	4259.0	4129.8	4023.3	3761.3
30°	4629.2	4641.4	4725.2	4800.3	4721.7	4664.1	4587.3	4451.1	4320.1	4239.8	3939.4
32.5°	4877.1	4875.4	4955.7	5016.8	4936.5	4891.1	4821.3	4683.3	4578.5	4543.6	4204.9
35°	5107.6	5107.6	5174.0	5235.1	5177.5	5153.0	5088.4	4978.4	4919.1	4961.0	4559.3
37.5°	5339.9	5327.7	5390.5	5458.6	5453.4	5455.1	5418.5	5366.1	5369.6	5518.0	5046.5
40°	5532.0	5526.7	5600.1	5689.1	5759.0	5814.9	5792.2	5811.4	5921.4	6199.0	5669.9
42.5°	5685.6	5697.9	5792.2	5933.6	6110.0	6223.5	6239.2	6317.8	6600.6	7030.2	6373.6
45°	5862.0	5863.8	5994.7	6211.2	6492.4	6672.2	6735.1	6937.7	7339.3	7892.8	7145.5
47.5°	6078.5	6057.6	6204.3	6508.1	6915.0	7180.4	7292.1	7545.3	8167.0	8734.5	7774.1
50°	6317.8	6279.3	6445.2	6859.1	7388.2	7720.0	7947.0	8317.2	8987.7	9426.0	8242.1
52.5°	6595.4	6558.7	6747.3	7262.5	7955.7	8359.1	8650.7	9024.4	9691.4	9953.4	8521.5
55°	6948.1	6911.5	7110.5	7746.2	8626.2	9150.1	9455.7	9770.0	10346.3	10342.8	8724.0
57.5°	7339.3	7288.7	7564.6	8357.3	9462.7	10007.5	10318.3	10472.0	10843.9	10644.9	8860.2
60°	7788.1	7742.7	8125.1	9085.5	10428.3	10933.0	11128.6	11065.7	11252.5	10823.0	8813.1
62.5°	8193.2	8172.2	8647.2	9857.3	11348.6	11774.6	11828.8	11554.6	11552.9	10826.5	8495.3
65°	8614.0	8654.2	9359.7	10746.1	12274.1	12560.4	12467.9	12040.1	11673.4	10398.6	7555.8
67.5°	8771.2	8888.2	9829.4	11549.4	13004.0	13227.5	13065.1	12282.8	11172.2	8959.8	5753.7
70°	7800.3	8020.3	9385.8	11594.8	13306.1	13519.1	13129.7	11629.7	9314.2	5935.3	3151.9
72.5°	5931.9	6188.5	7821.2	9494.1	11966.7	12452.2	11786.9	9474.9	6003.4	2600.1	1058.2
75°	3319.5	3597.2	5825.3	7149.0	8034.3	8477.8	8233.3	6078.5	2659.5	679.3	316.1
77.5°	1122.8	1215.4	2710.1	4423.1	5303.2	4905.1	4152.5	3019.2	977.9	258.4	167.6
80°	665.3	700.2	1009.3	2202.0	2790.4	2313.7	1826.5	1115.8	497.7	138.0	117.0
82.5°	199.1	235.7	557.0	817.2	1093.1	681.0	576.2	637.4	258.4	75.1	97.8
85°	0.0	0.0	118.7	253.2	286.4	111.8	111.8	361.5	47.1	31.4	71.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	8.7	5.2	7.0	15.7
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°	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7
2.5°	3235.7	3174.6	3103.0	3034.9	2970.3	2886.5	2846.3	2797.4	2755.5	2732.8	2745.0
5°	3171.1	3075.1	2928.4	2780.0	2629.8	2488.3	2360.9	2275.3	2198.5	2158.3	2167.0
7.5°	3115.2	2986.0	2757.3	2514.5	2273.6	2030.8	1833.5	1679.8	1561.1	1512.2	1503.5
10°	3090.8	2928.4	2605.3	2256.1	1885.9	1559.4	1280.0	1110.6	990.1	930.7	941.2
12.5°	3103.0	2898.7	2476.1	2002.9	1522.7	1142.0	874.8	715.9	630.4	595.5	586.7
15°	3137.9	2891.7	2360.9	1744.5	1175.2	798.0	604.2	539.6	522.1	518.6	518.6
17.5°	3178.1	2893.5	2242.1	1482.5	892.3	592.0	516.9	504.7	499.4	495.9	497.7
20°	3218.3	2893.5	2105.9	1217.1	670.5	511.6	492.4	483.7	478.5	476.7	476.7
22.5°	3267.1	2893.5	1954.0	970.9	537.8	485.4	469.7	464.5	459.3	457.5	455.8
25°	3326.5	2895.2	1786.4	759.6	488.9	462.7	450.5	445.3	440.0	436.6	436.6
27.5°	3412.1	2909.2	1601.3	592.0	461.0	441.8	431.3	426.1	420.8	415.6	415.6
30°	3536.1	2944.1	1393.5	488.9	434.8	419.1	408.6	405.1	399.9	394.6	392.9
32.5°	3721.2	3005.2	1178.7	438.3	410.4	394.6	382.4	378.9	373.7	368.4	366.7
35°	3979.6	3117.0	969.1	406.9	378.9	363.2	356.2	354.5	347.5	342.3	342.3
37.5°	4358.5	3298.6	768.3	375.4	352.7	340.5	331.8	328.3	321.3	316.1	314.3
40°	4821.3	3534.3	597.2	351.0	328.3	316.1	307.3	302.1	293.4	286.4	282.9
42.5°	5411.5	3822.4	471.5	324.8	305.6	293.4	286.4	275.9	263.7	253.2	251.5
45°	6026.1	4119.3	389.4	300.3	284.6	274.2	265.4	251.5	234.0	221.8	218.3
47.5°	6497.6	4304.4	340.5	274.2	261.9	253.2	242.7	225.3	204.3	190.3	186.8
50°	6834.6	4332.3	303.8	249.7	242.7	234.0	218.3	197.3	174.6	160.7	157.2
52.5°	7000.5	4206.6	274.2	227.0	221.8	213.0	193.8	171.1	146.7	132.7	129.2
55°	7075.6	3969.1	246.2	207.8	200.8	190.3	169.4	144.9	120.5	108.3	104.8
57.5°	7045.9	3618.1	221.8	188.6	179.9	167.6	144.9	118.7	99.5	87.3	85.6
60°	6825.9	3125.7	197.3	169.4	158.9	144.9	122.2	97.8	80.3	71.6	69.8
62.5°	6350.9	2514.5	172.9	146.7	139.7	125.7	104.8	80.3	66.4	61.1	59.4
65°	5378.3	1777.6	148.4	124.0	120.5	106.5	87.3	66.4	57.6	54.1	52.4
67.5°	3866.1	1080.9	125.7	106.5	103.0	90.8	73.3	57.6	52.4	50.6	50.6
70°	1943.5	511.6	99.5	87.3	87.3	75.1	62.9	52.4	50.6	48.9	48.9
72.5°	660.1	218.3	75.1	68.1	71.6	64.6	54.1	48.9	48.9	48.9	48.9
75°	225.3	115.2	52.4	48.9	52.4	52.4	47.1	47.1	48.9	48.9	48.9
77.5°	146.7	76.8	36.7	33.2	40.2	40.2	40.2	43.7	47.1	47.1	47.1
80°	120.5	41.9	24.4	22.7	29.7	29.7	33.2	40.2	43.7	43.7	43.7
82.5°	103.0	26.2	14.0	15.7	21.0	22.7	27.9	33.2	38.4	40.2	40.2
85°	69.8	14.0	10.5	12.2	14.0	17.5	22.7	27.9	31.4	34.9	34.9
87.5°	19.2	5.2	7.0	8.7	8.7	12.2	17.5	21.0	24.4	26.2	26.2
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)