

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: P641193

Luminaire Tested: GWS-SA5F-735-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-735-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30222.2 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

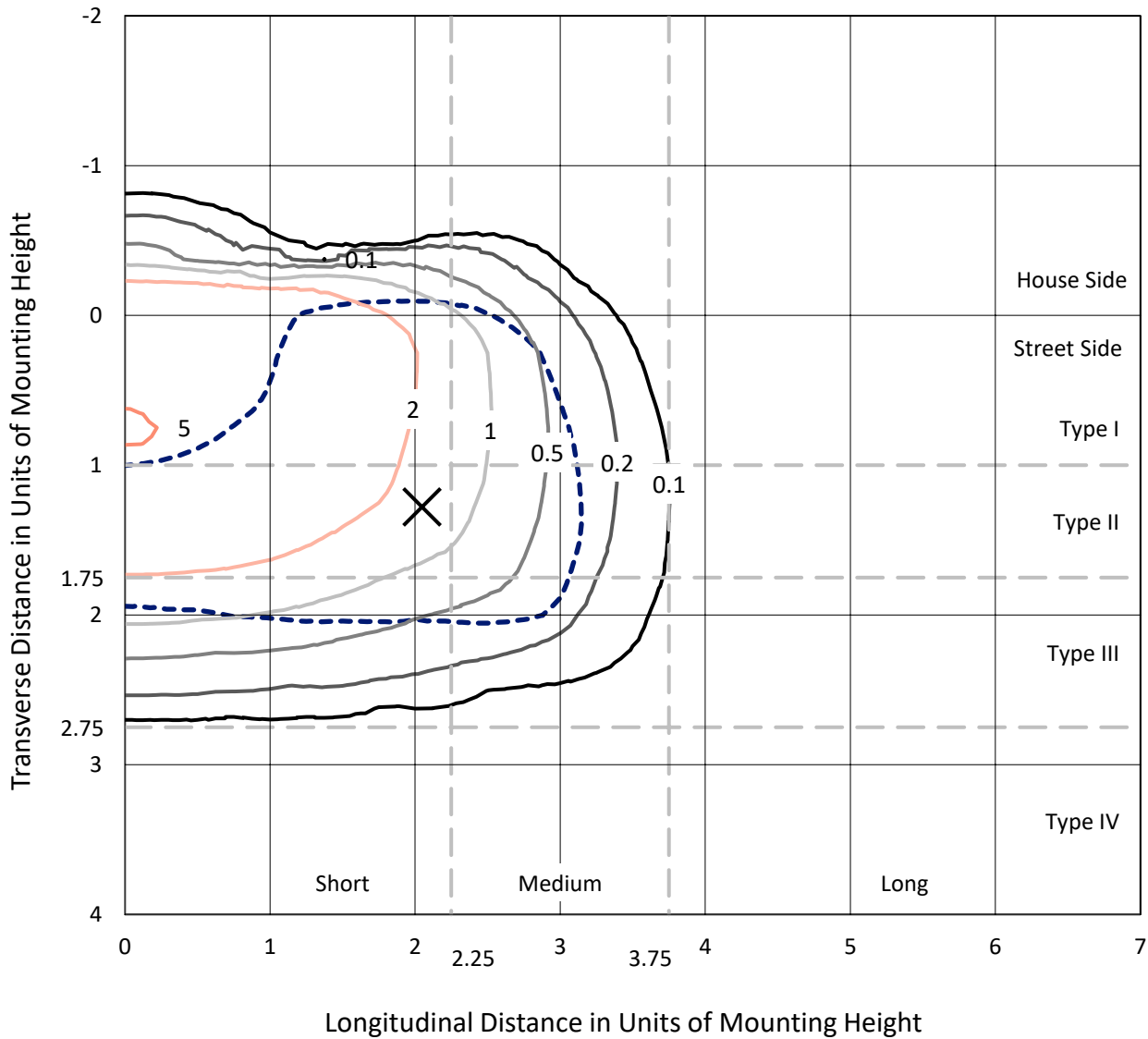
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

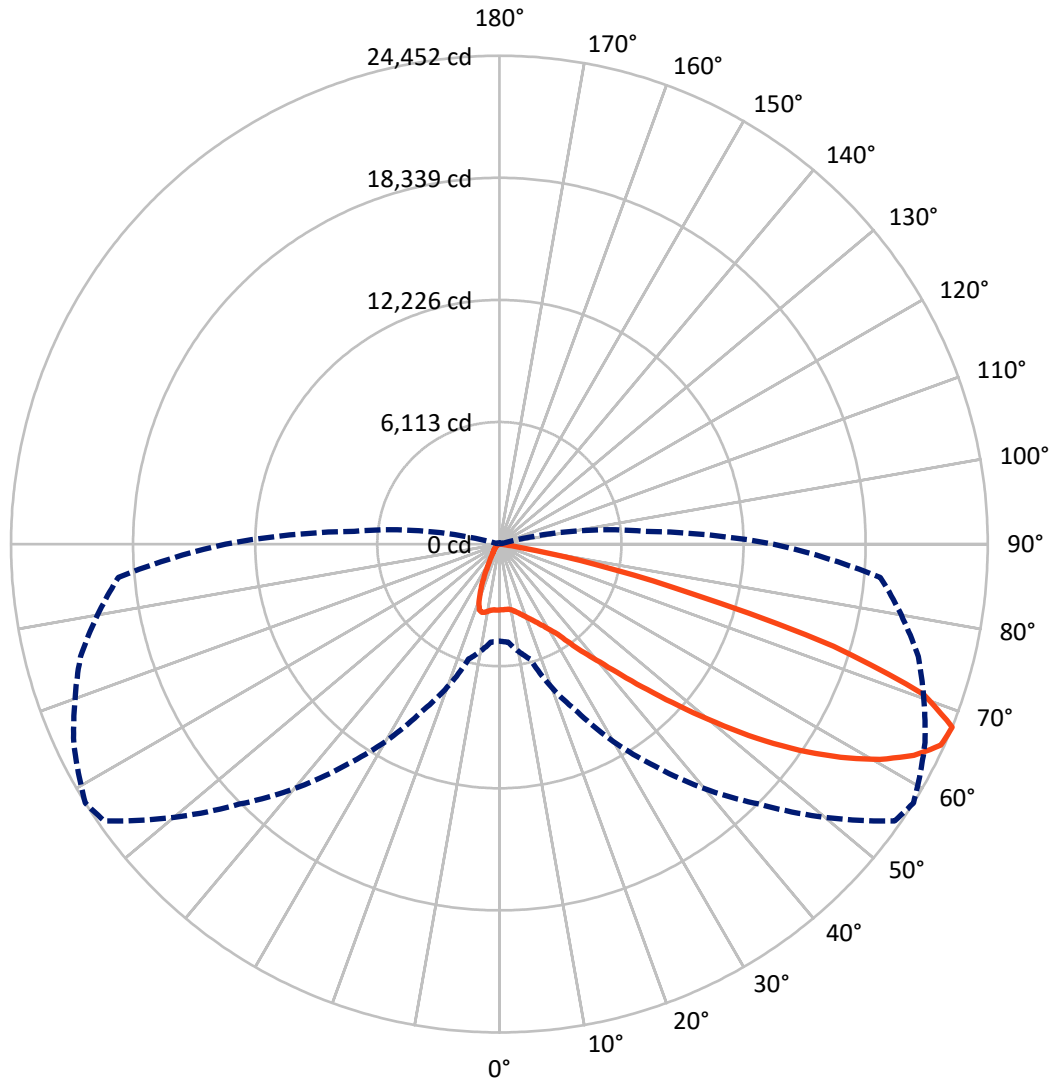
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3297.2	0.0	3297.2
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	26925.0	0.0	26925.0
	% Fixture	89.1	0.0	89.1
Total	Lumens	30222.2	0.0	30222.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.4	1.0
10°-20°	868.6	2.9
20°-30°	1516.2	5.0
30°-40°	2707.7	9.0
40°-50°	4949.2	16.4
50°-60°	8231.1	27.2
60°-70°	8940.3	29.6
70°-80°	2625.0	8.7
80°-90°	74.8	0.2
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°	30222.2	100.0
0°-180°	30222.2	100.0

Coefficient of Utilization



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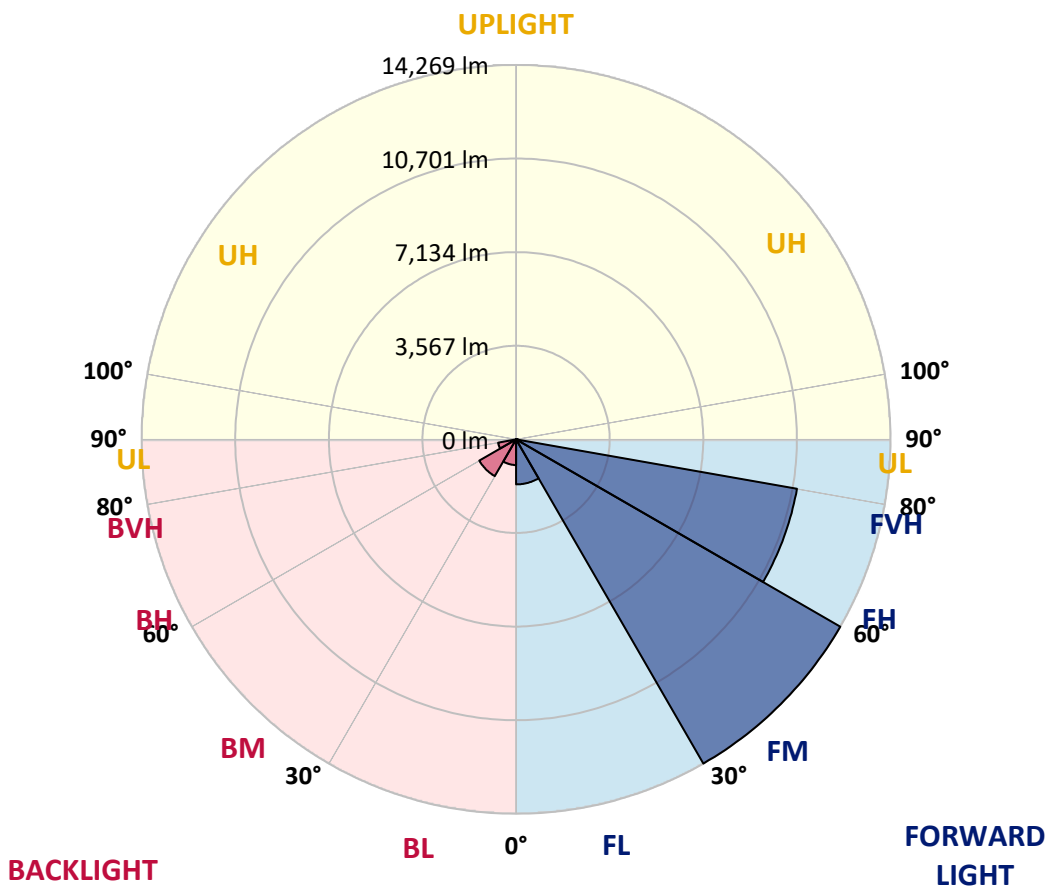
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1716.1	5.7			
FM (30°-60°)	14268.5	47.2			
FH (60°-80°)	10869.3	36.0			G4/12000
FVH (80°-90°)	71.1	0.2			G1/100
BL (0°-30°)	978.0	3.2	B2/1000		
BM (30°-60°)	1619.5	5.4	B2/2500		
BH (60°-80°)	696.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.7	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3293.3	3293.3	3293.3	3293.3	3293.3	3293.3	3293.3	3293.3	3293.3	3293.3	3293.3
2.5°	3231.3	3225.4	3225.4	3249.1	3252.0	3263.8	3290.4	3293.3	3308.1	3302.2	3281.5
5°	3063.1	3066.1	3083.8	3125.1	3160.5	3204.8	3269.7	3284.5	3316.9	3334.6	3322.8
7.5°	2906.7	2909.7	2936.2	3001.2	3069.0	3157.6	3263.8	3293.3	3358.2	3405.5	3408.4
10°	2847.7	2844.8	2871.3	2945.1	3033.6	3157.6	3311.0	3349.4	3446.8	3529.4	3544.2
12.5°	2865.4	2862.5	2889.0	2956.9	3054.3	3210.7	3393.7	3446.8	3570.7	3697.6	3724.2
15°	2936.2	2933.3	2951.0	3007.1	3113.3	3275.6	3499.9	3579.6	3736.0	3889.4	3930.7
17.5°	3148.7	3134.0	3116.3	3122.2	3184.1	3352.3	3635.6	3733.0	3927.8	4110.7	4146.2
20°	3526.4	3488.1	3440.9	3378.9	3349.4	3464.5	3792.0	3904.2	4140.3	4349.8	4355.7
22.5°	4096.0	4081.2	3972.0	3792.0	3665.1	3668.1	3975.0	4104.8	4394.0	4624.2	4591.8
25°	4889.8	4881.0	4712.7	4417.6	4087.1	3975.0	4208.1	4340.9	4695.0	4940.0	4836.7
27.5°	5875.4	5813.5	5615.8	5217.4	4724.6	4373.4	4503.2	4621.3	5013.8	5243.9	5049.2
30°	6734.2	6737.1	6551.2	6135.1	5580.3	4972.4	4863.2	4966.5	5305.9	5547.9	5311.8
32.5°	7560.5	7587.0	7383.4	7008.6	6400.7	5754.5	5379.7	5397.4	5680.7	5943.3	5657.1
35°	8327.7	8348.4	8206.7	7888.0	7321.4	6571.9	6099.7	6090.9	6244.3	6512.9	6138.1
37.5°	9186.5	9207.1	9068.4	8782.2	8251.0	7507.3	6917.1	6905.3	6967.3	7185.7	6757.8
40°	10101.3	10139.6	9986.2	9744.2	9236.6	8608.1	7867.4	7761.1	7699.2	7955.9	7560.5
42.5°	11027.9	11086.9	11033.8	10791.8	10358.0	9838.6	9100.9	8935.6	8802.8	9124.5	8705.5
45°	12178.8	12249.6	12226.0	12040.1	11703.7	11281.7	10585.2	10393.4	10331.5	10629.5	10130.8
47.5°	13285.4	13362.1	13447.7	13406.4	13167.4	12972.6	12199.4	12090.3	12072.5	12391.3	11618.1
50°	14108.7	14179.6	14507.1	14743.2	14905.5	14864.2	14194.3	14032.0	14005.4	14209.1	13188.0
52.5°	14698.9	14766.8	15218.3	15956.1	16552.2	16876.8	16201.0	16165.6	16021.0	15950.2	14657.6
55°	15156.3	15250.8	15725.9	16841.4	18042.4	18762.5	18340.5	18213.6	17841.8	17434.5	16021.0
57.5°	15247.8	15286.2	15956.1	17461.1	19199.2	20364.9	20364.9	20143.5	19426.4	18862.8	17596.8
60°	14427.4	14545.5	15451.4	17410.9	19695.0	21412.5	22044.0	21890.5	20922.6	20229.1	19113.6
62.5°	12606.7	12739.5	13843.1	16209.8	19199.2	21627.9	23315.9	23292.2	22200.4	21359.3	20370.8
65°	9667.5	9764.9	10726.9	13559.8	17104.0	20798.7	24224.8	24289.7	23209.6	22105.9	20804.6
67.5°	4857.3	4925.2	5964.0	9263.2	13556.9	18411.3	24162.8	24452.0	23516.5	21710.5	19149.0
70°	1696.8	1764.7	2254.6	3975.0	8251.0	14058.6	22073.5	22545.6	21713.5	18532.3	14126.4
72.5°	581.3	613.8	935.5	1475.5	3210.7	8333.6	16785.3	17496.5	16006.2	12441.4	8118.2
75°	330.5	351.2	501.7	799.7	1345.7	2741.5	9522.9	9959.6	9331.1	6781.4	3340.5
77.5°	224.3	242.0	312.8	454.5	743.7	882.3	3883.5	4889.8	4264.2	2213.3	852.8
80°	132.8	144.6	191.8	268.5	380.7	342.3	832.2	1106.6	1425.3	661.0	256.7
82.5°	62.0	70.8	123.9	177.1	191.8	144.6	244.9	298.1	401.3	324.6	106.2
85°	0.0	0.0	41.3	73.8	70.8	41.3	67.9	73.8	109.2	162.3	41.3
87.5°	0.0	0.0	0.0	0.0	0.0	3.0	5.9	8.9	17.7	32.5	17.7
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°	3293.3	3293.3	3293.3	3293.3	3293.3	3293.3	3293.3	3293.3	3293.3	3293.3	3293.3
2.5°	3305.1	3284.5	3308.1	3296.3	3308.1	3305.1	3281.5	3266.8	3266.8	3240.2	3231.3
5°	3346.4	3325.8	3331.7	3305.1	3299.2	3284.5	3255.0	3243.1	3243.1	3216.6	3207.7
7.5°	3437.9	3405.5	3399.6	3346.4	3322.8	3281.5	3228.4	3207.7	3204.8	3178.2	3169.4
10°	3582.5	3544.2	3517.6	3449.7	3381.8	3299.2	3187.1	3092.6	3039.5	2968.7	2962.8
12.5°	3759.6	3712.4	3671.0	3567.8	3455.6	3269.7	2939.2	2593.9	2381.5	2213.3	2225.1
15°	3957.3	3913.0	3848.1	3691.7	3461.5	2977.6	2287.0	1755.8	1496.2	1357.5	1351.6
17.5°	4172.7	4107.8	4001.6	3789.1	3275.6	2275.2	1487.3	1050.6	914.8	867.6	855.8
20°	4373.4	4293.7	4160.9	3809.7	2738.5	1540.4	929.6	814.5	790.9	776.1	776.1
22.5°	4585.9	4485.5	4287.8	3650.4	2036.2	985.6	790.9	764.3	746.6	725.9	723.0
25°	4801.3	4671.4	4402.9	3234.3	1333.9	776.1	740.7	711.2	678.7	646.3	637.4
27.5°	4984.2	4816.0	4491.4	2614.6	855.8	699.4	675.8	625.6	581.3	545.9	540.0
30°	5202.6	4987.2	4529.8	1912.2	672.8	616.8	581.3	528.2	475.1	439.7	427.9
32.5°	5494.8	5258.7	4470.8	1245.3	596.1	543.0	486.9	424.9	371.8	333.5	327.6
35°	5949.2	5668.9	4199.3	793.8	540.0	469.2	401.3	336.4	292.1	262.6	256.7
37.5°	6504.0	6244.3	3753.7	596.1	484.0	407.2	327.6	265.6	233.1	212.5	206.6
40°	7327.3	6964.4	3201.8	522.3	427.9	345.3	268.5	218.4	194.8	177.1	171.2
42.5°	8395.6	7814.3	2567.4	475.1	374.8	289.2	218.4	180.0	159.4	147.6	144.6
45°	9643.9	8643.5	1897.5	427.9	324.6	239.0	180.0	147.6	132.8	123.9	121.0
47.5°	10921.7	9369.4	1310.2	377.7	277.4	197.7	150.5	126.9	115.1	103.3	100.3
50°	12285.0	9983.2	894.2	327.6	236.1	162.3	129.8	115.1	100.3	91.5	88.5
52.5°	13285.4	10210.5	622.7	283.3	200.7	138.7	115.1	103.3	91.5	79.7	76.7
55°	14209.1	10204.6	472.2	239.0	171.2	121.0	103.3	91.5	79.7	70.8	67.9
57.5°	15129.8	10124.9	371.8	203.6	147.6	109.2	91.5	79.7	73.8	62.0	59.0
60°	15725.9	9823.9	289.2	171.2	126.9	94.4	79.7	70.8	62.0	53.1	50.2
62.5°	16041.6	9404.8	221.3	135.7	103.3	82.6	70.8	62.0	53.1	44.3	41.3
65°	15613.7	8661.2	174.1	106.2	79.7	70.8	59.0	50.2	41.3	32.5	29.5
67.5°	13716.3	7303.7	135.7	85.6	62.0	53.1	50.2	41.3	29.5	23.6	20.7
70°	9694.0	5001.9	106.2	64.9	47.2	41.3	38.4	32.5	23.6	17.7	14.8
72.5°	5320.7	2523.1	76.7	47.2	35.4	32.5	29.5	26.6	20.7	14.8	14.8
75°	2048.0	693.5	56.1	32.5	23.6	23.6	20.7	20.7	17.7	11.8	11.8
77.5°	534.1	206.6	35.4	20.7	14.8	14.8	14.8	11.8	11.8	8.9	8.9
80°	171.2	67.9	20.7	14.8	11.8	8.9	8.9	5.9	8.9	5.9	5.9
82.5°	56.1	23.6	11.8	11.8	8.9	5.9	5.9	3.0	3.0	0.0	0.0
85°	20.7	11.8	8.9	5.9	5.9	5.9	3.0	0.0	0.0	0.0	0.0
87.5°	11.8	5.9	5.9	5.9	5.9	3.0	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)