

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: P640262

Luminaire Tested: GWS-SA5D-740-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640262
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-SA5D-740-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23516.7 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

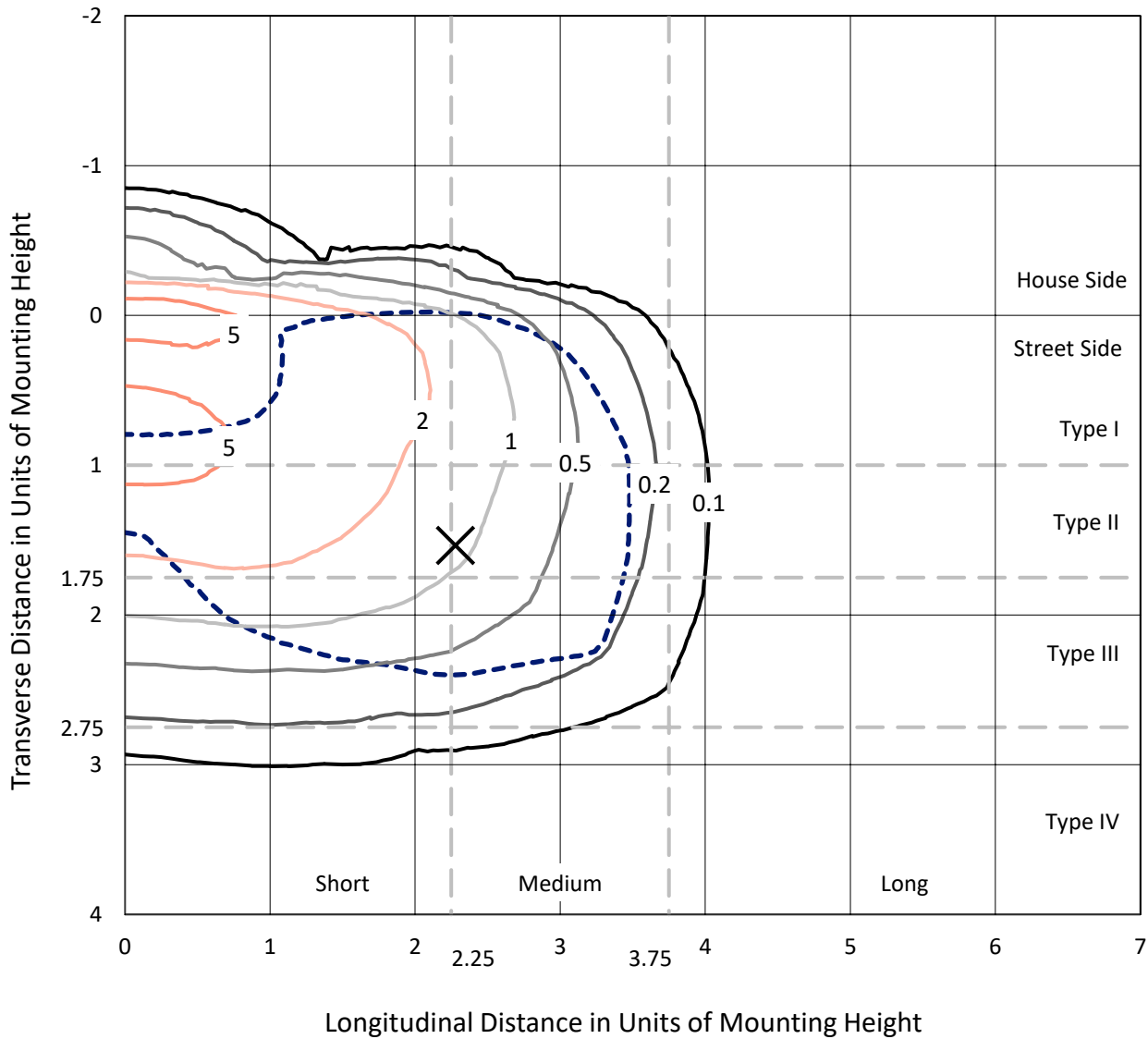
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

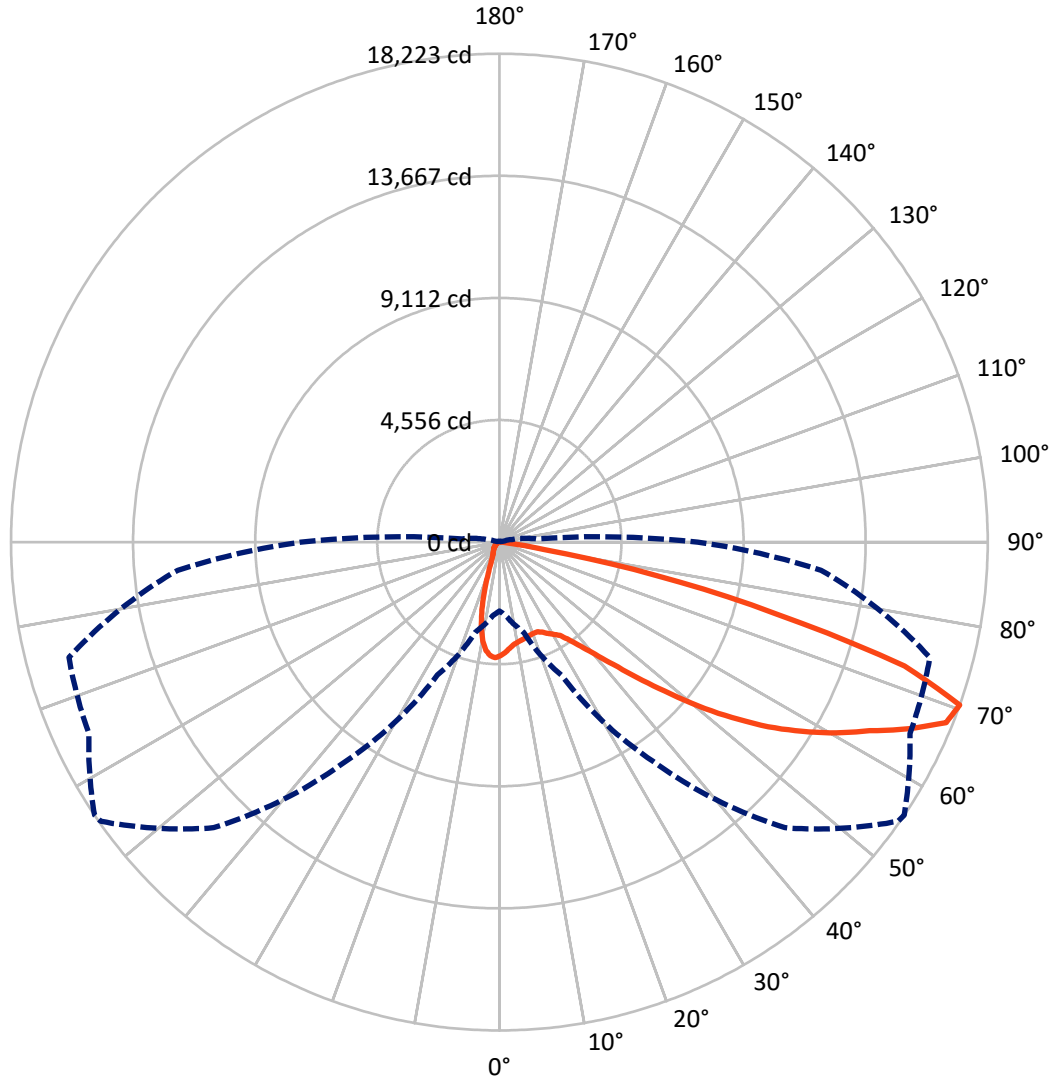
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	2112.3	0.0	2112.3
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	21404.4	0.0	21404.4
	% Fixture	91.0	0.0	91.0
Total	Lumens	23516.7	0.0	23516.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.1	1.5
10°-20°	818.8	3.5
20°-30°	1297.0	5.5
30°-40°	2236.7	9.5
40°-50°	3777.0	16.1
50°-60°	5549.7	23.6
60°-70°	6579.5	28.0
70°-80°	2805.7	11.9
80°-90°	88.1	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°	23516.7	100.0
0°-180°	23516.7	100.0

Coefficient of Utilization



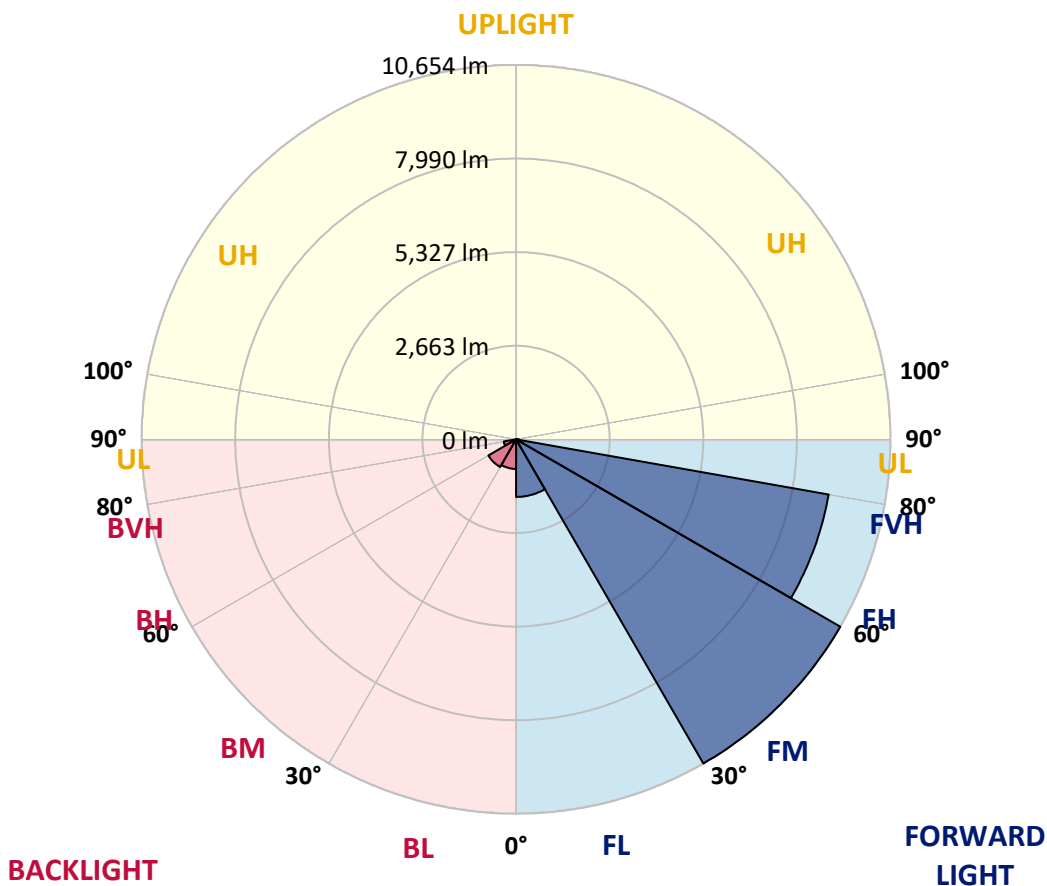
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1638.7	7.0			
FM (30°-60°)	10653.7	45.3			
FH (60°-80°)	9032.9	38.4			G4/12000
FVH (80°-90°)	79.2	0.3			G1/100
BL (0°-30°)	841.2	3.6	B2/1000		
BM (30°-60°)	909.8	3.9	B1/1000		
BH (60°-80°)	352.3	1.5	B1/500		G1/500
BVH (80°-90°)	8.9	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°	4240.3	4240.3	4240.3	4240.3	4240.3	4240.3	4240.3	4240.3	4240.3	4240.3	4240.3
2.5°	3947.4	3941.0	3945.3	3977.6	4037.9	4065.9	4113.2	4121.9	4160.6	4210.1	4229.5
5°	3691.1	3669.6	3680.4	3725.6	3794.5	3872.0	3960.3	3984.0	4080.9	4190.8	4272.6
7.5°	3456.4	3432.7	3458.6	3529.6	3626.5	3710.5	3841.9	3857.0	4012.0	4205.8	4354.4
10°	3088.2	3094.6	3146.3	3271.2	3419.8	3594.2	3770.8	3792.4	3984.0	4255.4	4485.8
12.5°	2806.0	2791.0	2847.0	2989.1	3198.0	3452.1	3717.0	3745.0	3986.2	4330.7	4653.8
15°	2674.7	2670.4	2694.1	2797.4	2999.9	3299.2	3667.5	3704.1	4014.2	4399.7	4813.1
17.5°	2679.0	2672.5	2670.4	2730.7	2881.4	3185.1	3613.6	3661.0	4037.9	4475.0	4981.1
20°	2866.3	2836.2	2782.4	2754.4	2844.8	3111.8	3577.0	3630.8	4072.3	4554.7	5159.9
22.5°	3258.3	3269.1	3124.8	2974.0	2931.0	3120.5	3572.7	3635.2	4147.7	4679.6	5379.5
25°	4042.2	4024.9	3757.9	3419.8	3185.1	3219.5	3648.1	3723.5	4296.3	4858.4	5586.3
27.5°	5024.2	5039.3	4673.2	4134.8	3643.8	3424.1	3785.9	3861.3	4468.6	4970.3	5724.1
30°	6094.5	6079.4	5687.5	5090.9	4294.1	3764.4	3923.7	3990.5	4554.7	5030.6	5866.2
32.5°	7106.6	7072.2	6684.6	6060.0	5123.2	4300.6	4113.2	4152.0	4668.8	5162.0	6057.9
35°	7970.2	7968.1	7630.0	6964.5	5976.0	4972.5	4438.4	4470.7	4882.0	5370.9	6340.0
37.5°	8861.8	8831.6	8452.6	7845.3	6852.5	5709.0	4935.9	4923.0	5218.0	5678.9	6686.7
40°	9594.0	9574.6	9283.9	8700.3	7763.5	6523.0	5538.9	5500.1	5616.4	6105.3	7169.1
42.5°	10136.7	10138.8	10048.4	9693.0	8728.3	7464.1	6296.9	6236.6	6234.5	6749.2	7806.5
45°	10548.0	10576.0	10711.7	10657.8	9867.5	8560.3	7268.2	7205.7	7100.2	7584.7	8536.6
47.5°	10739.6	10776.3	11185.4	11400.8	10864.6	9647.8	8424.6	8293.2	8086.5	8695.9	9352.8
50°	10720.3	10784.9	11355.6	12010.2	11769.0	10750.4	9684.4	9622.0	9283.9	9871.8	10160.3
52.5°	10280.9	10418.8	11366.3	12380.6	12464.6	11766.9	10987.3	10871.0	10707.3	11099.3	10918.4
55°	9087.9	9255.9	10911.9	12499.1	13007.3	12654.1	12262.2	12167.4	11896.1	12257.9	11579.5
57.5°	8439.7	8584.0	9955.8	12440.9	13468.2	13474.6	13397.1	13319.6	13095.6	13403.6	12354.8
60°	8049.9	8194.2	9445.4	12227.7	13886.0	14340.3	14463.1	14454.5	14131.5	14706.4	13263.6
62.5°	7479.2	7677.3	8913.5	11674.3	14183.1	15193.1	15563.6	15505.4	15145.8	16063.2	14163.8
65°	6327.1	6499.3	7823.8	10761.2	14008.7	15899.5	16756.6	16786.8	16371.1	17340.2	14874.4
67.5°	4436.3	4563.3	5879.1	8844.5	12824.3	16132.1	17977.7	17975.5	17267.0	17994.9	14560.0
70°	2571.3	2745.7	3473.6	5467.8	9977.3	15074.7	18160.7	18223.2	16903.0	16627.4	12049.0
72.5°	994.9	1139.2	1968.3	2905.1	5202.9	11547.2	15621.7	15804.7	14146.5	12826.4	8385.8
75°	297.2	331.6	926.0	1546.2	2088.9	5577.6	10576.0	10627.7	9703.8	8000.4	4298.4
77.5°	221.8	245.5	404.9	781.7	732.2	1690.5	5472.1	5976.0	5151.2	2857.7	1184.4
80°	150.7	178.7	288.6	381.2	271.3	450.1	1537.6	1688.4	1572.1	641.8	297.2
82.5°	66.8	86.1	204.6	191.7	99.1	129.2	473.8	503.9	325.2	193.8	103.4
85°	6.5	8.6	77.5	84.0	36.6	30.1	99.1	99.1	71.1	66.8	43.1
87.5°	0.0	0.0	2.2	4.3	4.3	6.5	8.6	10.8	12.9	17.2	21.5
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°	4240.3	4240.3	4240.3	4240.3	4240.3	4240.3	4240.3	4240.3	4240.3	4240.3	4240.3
2.5°	4279.1	4253.2	4285.5	4311.4	4317.8	4270.4	4242.5	4201.5	4192.9	4195.1	4184.3
5°	4337.2	4324.3	4348.0	4320.0	4246.8	4108.9	3990.5	3859.1	3788.1	3747.1	3742.8
7.5°	4444.9	4438.4	4412.6	4285.5	4057.2	3751.4	3456.4	3167.8	2989.1	2924.5	2913.7
10°	4604.2	4591.3	4485.8	4184.3	3697.6	3109.7	2614.4	2200.9	1948.9	1875.7	1785.3
12.5°	4787.3	4761.5	4531.0	3966.8	3154.9	2340.9	1722.8	1259.8	1042.3	977.7	977.7
15°	4963.9	4907.9	4505.2	3607.2	2487.3	1522.5	962.6	727.9	661.1	643.9	643.9
17.5°	5144.8	5037.1	4404.0	3116.2	1718.5	900.2	641.8	596.5	587.9	590.1	592.2
20°	5314.9	5146.9	4225.2	2526.1	1096.1	628.8	575.0	564.2	559.9	564.2	562.1
22.5°	5500.1	5248.1	3953.9	1882.2	712.8	566.4	547.0	538.4	534.1	540.5	540.5
25°	5683.2	5321.4	3594.2	1266.3	566.4	527.6	516.8	508.2	503.9	506.1	506.1
27.5°	5777.9	5293.4	3122.6	807.6	508.2	488.9	478.1	467.3	460.9	458.7	460.9
30°	5842.5	5207.2	2545.5	575.0	460.9	437.2	426.4	417.8	400.6	389.8	394.1
32.5°	5943.7	5121.1	1918.8	482.4	422.1	385.5	368.3	346.7	323.0	312.3	312.3
35°	6064.3	5002.6	1346.0	435.0	381.2	342.4	310.1	273.5	245.5	236.9	236.9
37.5°	6223.7	4890.7	895.9	402.7	346.7	305.8	260.6	217.5	187.4	183.0	180.9
40°	6462.7	4795.9	631.0	379.0	316.6	267.0	213.2	168.0	146.4	140.0	140.0
42.5°	6772.8	4699.0	499.6	355.3	290.7	230.4	170.1	133.5	116.3	112.0	109.8
45°	7156.2	4584.9	435.0	333.8	264.9	191.7	135.7	112.0	99.1	94.8	94.8
47.5°	7571.8	4429.8	404.9	305.8	234.7	155.1	114.1	96.9	90.4	88.3	86.1
50°	7981.0	4220.9	379.0	280.0	200.3	127.1	99.1	88.3	84.0	81.8	81.8
52.5°	8338.5	3977.6	346.7	249.8	163.7	109.8	88.3	81.8	77.5	73.2	71.1
55°	8644.3	3712.7	305.8	215.4	133.5	96.9	81.8	75.4	71.1	66.8	64.6
57.5°	9038.4	3561.9	245.5	174.4	109.8	86.1	75.4	68.9	64.6	58.1	58.1
60°	9475.5	3452.1	183.0	137.8	94.8	79.7	68.9	62.5	58.1	51.7	51.7
62.5°	9826.6	3288.4	144.3	112.0	81.8	71.1	62.5	56.0	51.7	45.2	45.2
65°	9960.1	2950.3	118.4	88.3	66.8	62.5	56.0	51.7	45.2	38.8	38.8
67.5°	9357.1	2274.1	99.1	71.1	56.0	53.8	49.5	47.4	38.8	34.5	32.3
70°	7410.3	1386.9	81.8	58.1	47.4	45.2	45.2	40.9	34.5	32.3	30.1
72.5°	5078.0	715.0	66.8	47.4	40.9	40.9	38.8	36.6	32.3	30.1	30.1
75°	2638.1	239.0	51.7	36.6	32.3	34.5	34.5	32.3	30.1	30.1	28.0
77.5°	755.9	107.7	38.8	28.0	25.8	25.8	28.0	28.0	28.0	25.8	25.8
80°	196.0	62.5	28.0	21.5	21.5	21.5	21.5	23.7	25.8	23.7	23.7
82.5°	79.7	34.5	19.4	17.2	17.2	17.2	17.2	19.4	21.5	21.5	21.5
85°	49.5	17.2	15.1	15.1	15.1	12.9	12.9	15.1	15.1	17.2	17.2
87.5°	30.1	12.9	12.9	12.9	12.9	10.8	10.8	10.8	10.8	10.8	10.8
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)