

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: P642242

Luminaire Tested: GWS-SA6C-740-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642242
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-SA6C-740-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22228 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

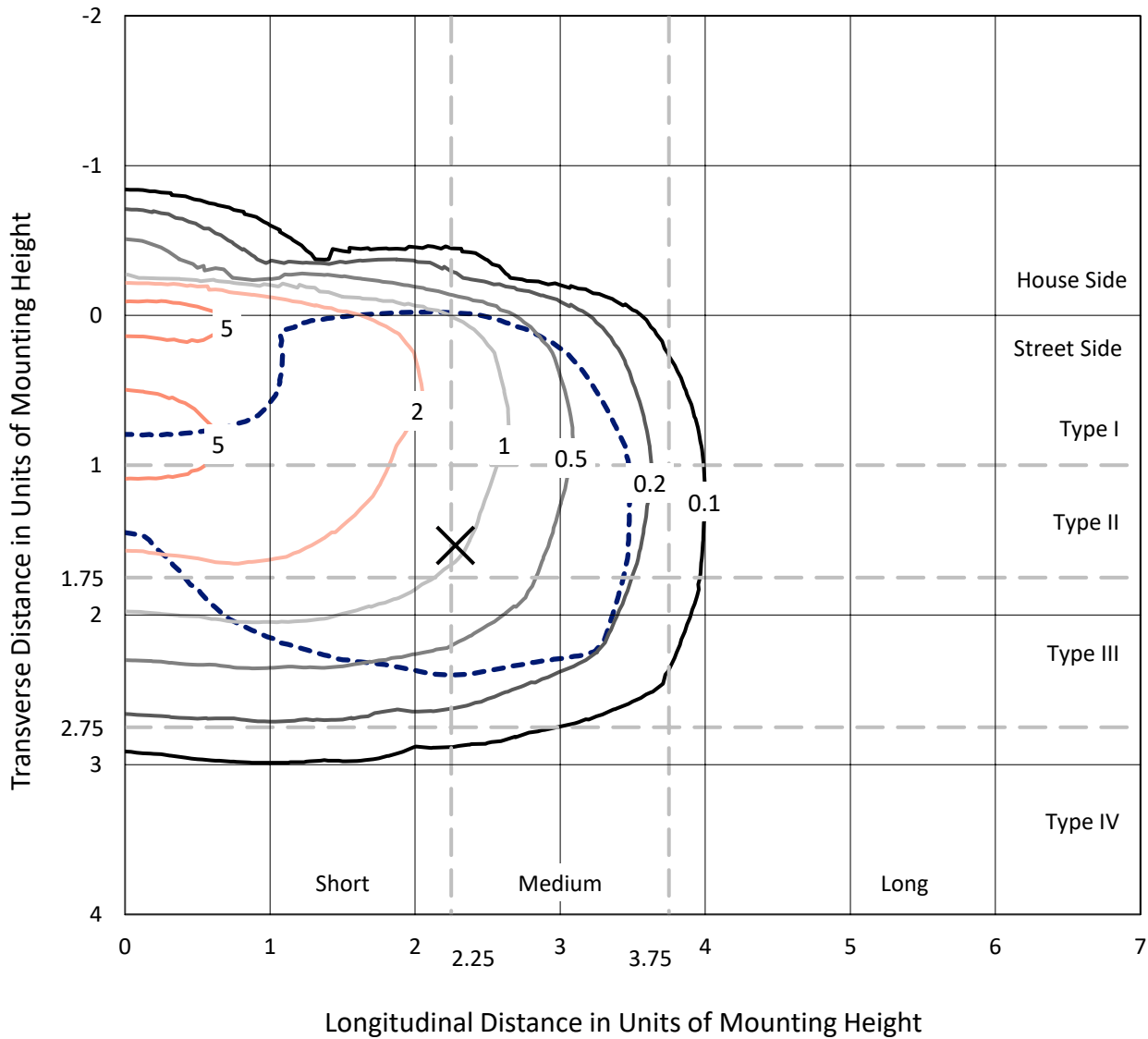
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

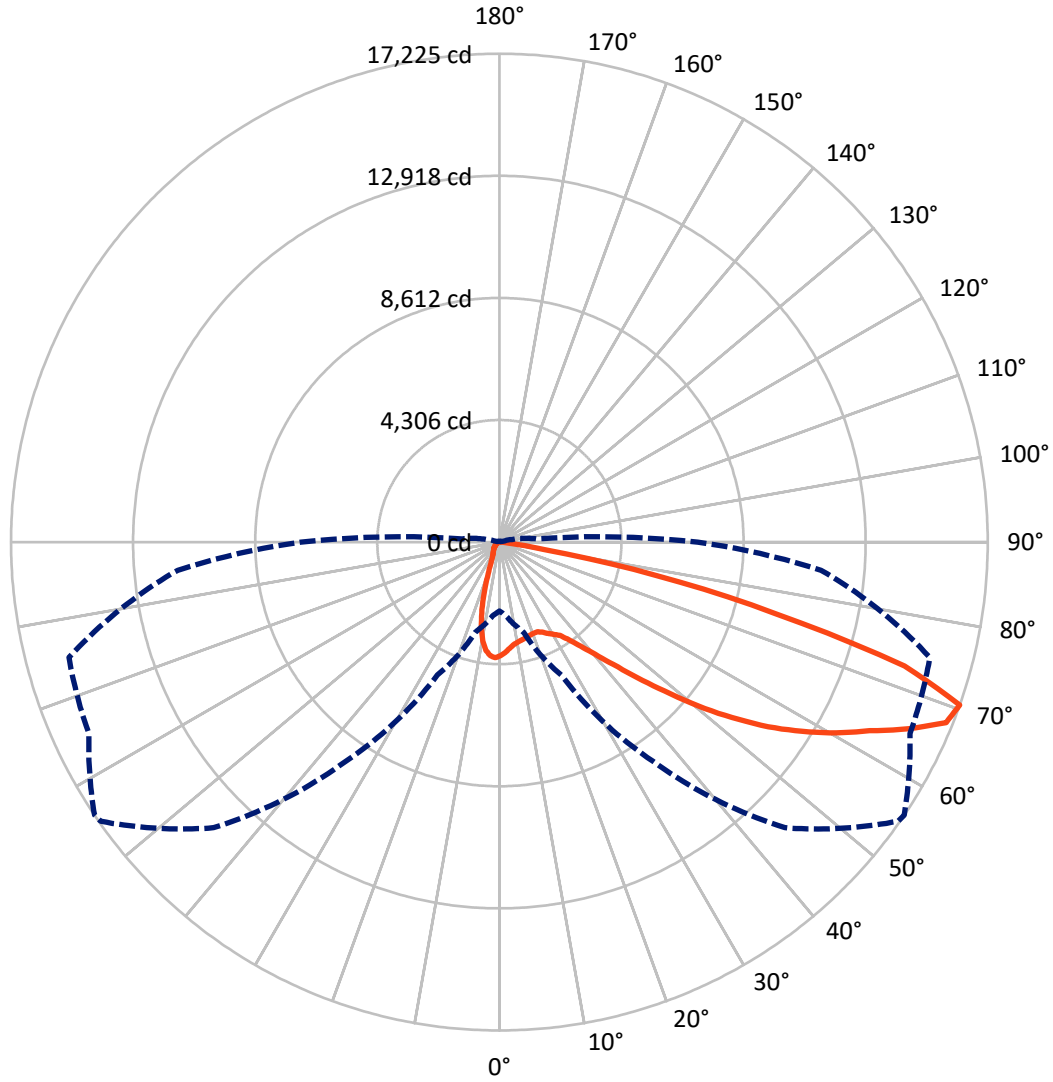
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	1996.5	0.0	1996.5
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	20231.5	0.0	20231.5
	% Fixture	91.0	0.0	91.0
Total	Lumens	22228.0	0.0	22228.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.1	1.5
10°-20°	774.0	3.5
20°-30°	1225.9	5.5
30°-40°	2114.1	9.5
40°-50°	3570.1	16.1
50°-60°	5245.6	23.6
60°-70°	6218.9	28.0
70°-80°	2652.0	11.9
80°-90°	83.3	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°	22228.0	100.0
0°-180°	22228.0	100.0

Coefficient of Utilization



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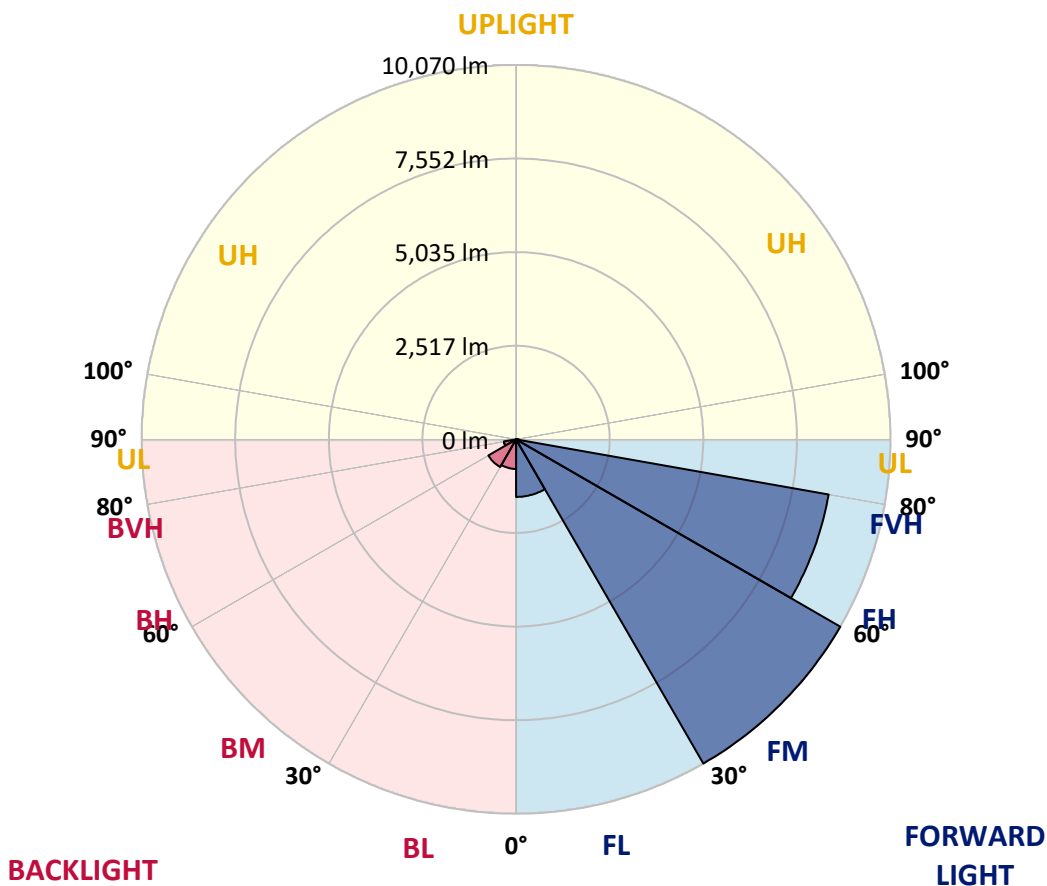
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1548.9	7.0			
FM (30°-60°)	10069.9	45.3			
FH (60°-80°)	8537.9	38.4			G4/12000
FVH (80°-90°)	74.8	0.3			G1/100
BL (0°-30°)	795.1	3.6	B2/1000		
BM (30°-60°)	859.9	3.9	B1/1000		
BH (60°-80°)	333.0	1.5	B1/500		G1/500
BVH (80°-90°)	8.5	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°	4007.9	4007.9	4007.9	4007.9	4007.9	4007.9	4007.9	4007.9	4007.9	4007.9	4007.9
2.5°	3731.1	3725.0	3729.1	3759.6	3816.6	3843.1	3887.8	3896.0	3932.6	3979.4	3997.8
5°	3488.9	3468.5	3478.7	3521.4	3586.6	3659.9	3743.3	3765.7	3857.3	3961.1	4038.5
7.5°	3267.0	3244.6	3269.0	3336.2	3427.8	3507.2	3631.4	3645.6	3792.2	3975.4	4115.8
10°	2918.9	2925.0	2973.9	3091.9	3232.4	3397.3	3564.2	3584.5	3765.7	4022.2	4240.0
12.5°	2652.3	2638.0	2691.0	2825.3	3022.7	3262.9	3513.3	3539.8	3767.7	4093.4	4398.8
15°	2528.1	2524.0	2546.4	2644.1	2835.5	3118.4	3466.5	3501.1	3794.2	4158.6	4549.4
17.5°	2532.2	2526.1	2524.0	2581.0	2723.5	3010.5	3415.6	3460.4	3816.6	4229.8	4708.1
20°	2709.3	2680.8	2629.9	2603.4	2688.9	2941.3	3381.0	3431.9	3849.2	4305.1	4877.1
22.5°	3079.7	3089.9	2953.5	2811.0	2770.3	2949.5	3376.9	3436.0	3920.4	4423.2	5084.7
25°	3820.7	3804.4	3552.0	3232.4	3010.5	3043.1	3448.2	3519.4	4060.9	4592.1	5280.1
27.5°	4748.9	4763.1	4417.1	3908.2	3444.1	3236.5	3578.4	3649.7	4223.7	4698.0	5410.4
30°	5760.5	5746.3	5375.8	4812.0	4058.8	3558.1	3708.7	3771.8	4305.1	4755.0	5544.7
32.5°	6717.2	6684.6	6318.2	5727.9	4842.5	4064.9	3887.8	3924.5	4413.0	4879.1	5725.9
35°	7533.4	7531.4	7211.8	6582.9	5648.6	4700.0	4195.2	4225.7	4614.5	5076.6	5992.6
37.5°	8376.2	8347.7	7989.4	7415.4	6477.0	5396.2	4665.4	4653.2	4932.1	5367.7	6320.3
40°	9068.2	9049.9	8775.1	8223.5	7338.0	6165.6	5235.3	5198.7	5308.6	5770.7	6776.2
42.5°	9581.2	9583.2	9497.7	9161.9	8249.9	7055.1	5951.9	5894.9	5892.8	6379.3	7378.7
45°	9970.0	9996.4	10124.7	10073.8	9326.7	8091.2	6869.9	6810.8	6711.1	7169.1	8068.8
47.5°	10151.1	10185.7	10572.5	10776.0	10269.2	9119.1	7962.9	7838.8	7643.4	8219.4	8840.2
50°	10132.8	10193.9	10733.3	11352.1	11124.1	10161.3	9153.7	9094.7	8775.1	9330.8	9603.6
52.5°	9717.6	9847.8	10743.5	11702.2	11781.6	11122.1	10385.2	10275.3	10120.6	10491.1	10320.1
55°	8589.9	8748.7	10314.0	11814.1	12294.5	11960.7	11590.2	11500.7	11244.2	11586.2	10945.0
57.5°	7977.2	8113.6	9410.2	11759.2	12730.1	12736.2	12662.9	12589.7	12378.0	12669.1	11677.8
60°	7608.8	7745.1	8927.8	11557.7	13125.0	13554.5	13670.5	13662.4	13357.1	13900.5	12536.7
62.5°	7069.3	7256.6	8425.0	11034.5	13405.9	14360.6	14710.7	14655.7	14315.8	15182.9	13387.6
65°	5980.3	6143.2	7395.0	10171.5	13241.0	15028.2	15838.4	15866.9	15474.0	16390.0	14059.3
67.5°	4193.2	4313.3	5557.0	8359.9	12121.5	15248.1	16992.5	16990.5	16320.8	17008.8	13762.1
70°	2430.4	2595.3	3283.3	5168.2	9430.5	14248.6	17165.5	17224.5	15976.8	15716.2	11388.7
72.5°	940.4	1076.8	1860.5	2745.9	4917.8	10914.4	14765.6	14938.7	13371.3	12123.5	7926.3
75°	280.9	313.5	875.3	1461.5	1974.5	5272.0	9996.4	10045.3	9172.0	7561.9	4062.9
77.5°	209.7	232.0	382.7	738.9	692.1	1597.9	5172.2	5648.6	4869.0	2701.1	1119.5
80°	142.5	168.9	272.8	360.3	256.5	425.4	1453.4	1595.8	1485.9	606.6	280.9
82.5°	63.1	81.4	193.4	181.2	93.6	122.1	447.8	476.3	307.4	183.2	97.7
85°	6.1	8.1	73.3	79.4	34.6	28.5	93.6	93.6	67.2	63.1	40.7
87.5°	0.0	0.0	2.0	4.1	4.1	6.1	8.1	10.2	12.2	16.3	20.4
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°	4007.9	4007.9	4007.9	4007.9	4007.9	4007.9	4007.9	4007.9	4007.9	4007.9	4007.9
2.5°	4044.6	4020.1	4050.7	4075.1	4081.2	4036.4	4010.0	3971.3	3963.2	3965.2	3955.0
5°	4099.5	4087.3	4109.7	4083.2	4014.0	3883.8	3771.8	3647.6	3580.5	3541.8	3537.7
7.5°	4201.3	4195.2	4170.8	4050.7	3834.9	3545.9	3267.0	2994.2	2825.3	2764.2	2754.1
10°	4351.9	4339.7	4240.0	3955.0	3495.0	2939.3	2471.1	2080.3	1842.1	1772.9	1687.4
12.5°	4525.0	4500.5	4282.7	3749.4	2982.0	2212.6	1628.4	1190.8	985.2	924.1	924.1
15°	4691.9	4638.9	4258.3	3409.5	2351.0	1439.1	909.9	688.0	624.9	608.6	608.6
17.5°	4862.8	4761.1	4162.6	2945.4	1624.3	850.8	606.6	563.8	555.7	557.7	559.8
20°	5023.7	4864.9	3993.7	2387.7	1036.1	594.4	543.5	533.3	529.2	533.3	531.3
22.5°	5198.7	4960.6	3737.2	1779.0	673.8	535.3	517.0	508.9	504.8	510.9	510.9
25°	5371.7	5029.8	3397.3	1196.9	535.3	498.7	488.5	480.4	476.3	478.3	478.3
27.5°	5461.3	5003.3	2951.5	763.3	480.4	462.1	451.9	441.7	435.6	433.6	435.6
30°	5522.4	4921.9	2406.0	543.5	435.6	413.2	403.0	394.9	378.6	368.4	372.5
32.5°	5618.0	4840.5	1813.6	456.0	399.0	364.4	348.1	327.7	305.3	295.1	295.1
35°	5732.0	4728.5	1272.2	411.2	360.3	323.6	293.1	258.5	232.0	223.9	223.9
37.5°	5882.6	4622.7	846.8	380.6	327.7	289.0	246.3	205.6	177.1	173.0	171.0
40°	6108.6	4533.1	596.4	358.3	299.2	252.4	201.5	158.8	138.4	132.3	132.3
42.5°	6401.7	4441.5	472.2	335.9	274.8	217.8	160.8	126.2	109.9	105.8	103.8
45°	6764.0	4333.6	411.2	315.5	250.4	181.2	128.2	105.8	93.6	89.6	89.6
47.5°	7156.9	4187.1	382.7	289.0	221.9	146.6	107.9	91.6	85.5	83.5	81.4
50°	7543.6	3989.6	358.3	264.6	189.3	120.1	93.6	83.5	79.4	77.3	77.3
52.5°	7881.5	3759.6	327.7	236.1	154.7	103.8	83.5	77.3	73.3	69.2	67.2
55°	8170.6	3509.2	289.0	203.6	126.2	91.6	77.3	71.2	67.2	63.1	61.1
57.5°	8543.1	3366.7	232.0	164.9	103.8	81.4	71.2	65.1	61.1	55.0	55.0
60°	8956.3	3262.9	173.0	130.3	89.6	75.3	65.1	59.0	55.0	48.9	48.9
62.5°	9288.1	3108.2	136.4	105.8	77.3	67.2	59.0	52.9	48.9	42.7	42.7
65°	9414.3	2788.7	112.0	83.5	63.1	59.0	52.9	48.9	42.7	36.6	36.6
67.5°	8844.3	2149.5	93.6	67.2	52.9	50.9	46.8	44.8	36.6	32.6	30.5
70°	7004.2	1310.9	77.3	55.0	44.8	42.7	42.7	38.7	32.6	30.5	28.5
72.5°	4799.7	675.8	63.1	44.8	38.7	38.7	36.6	34.6	30.5	28.5	28.5
75°	2493.5	225.9	48.9	34.6	30.5	32.6	32.6	30.5	28.5	28.5	26.5
77.5°	714.5	101.8	36.6	26.5	24.4	24.4	26.5	26.5	26.5	24.4	24.4
80°	185.2	59.0	26.5	20.4	20.4	20.4	20.4	22.4	24.4	22.4	22.4
82.5°	75.3	32.6	18.3	16.3	16.3	16.3	16.3	18.3	20.4	20.4	20.4
85°	46.8	16.3	14.2	14.2	14.2	12.2	12.2	14.2	14.2	16.3	16.3
87.5°	28.5	12.2	12.2	12.2	12.2	10.2	10.2	10.2	10.2	10.2	10.2
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)