

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: P636826

Luminaire Tested: GWS-SA4B-750-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-750-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14507.2 lumens
Efficiency: N/A
Efficacy: 153.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

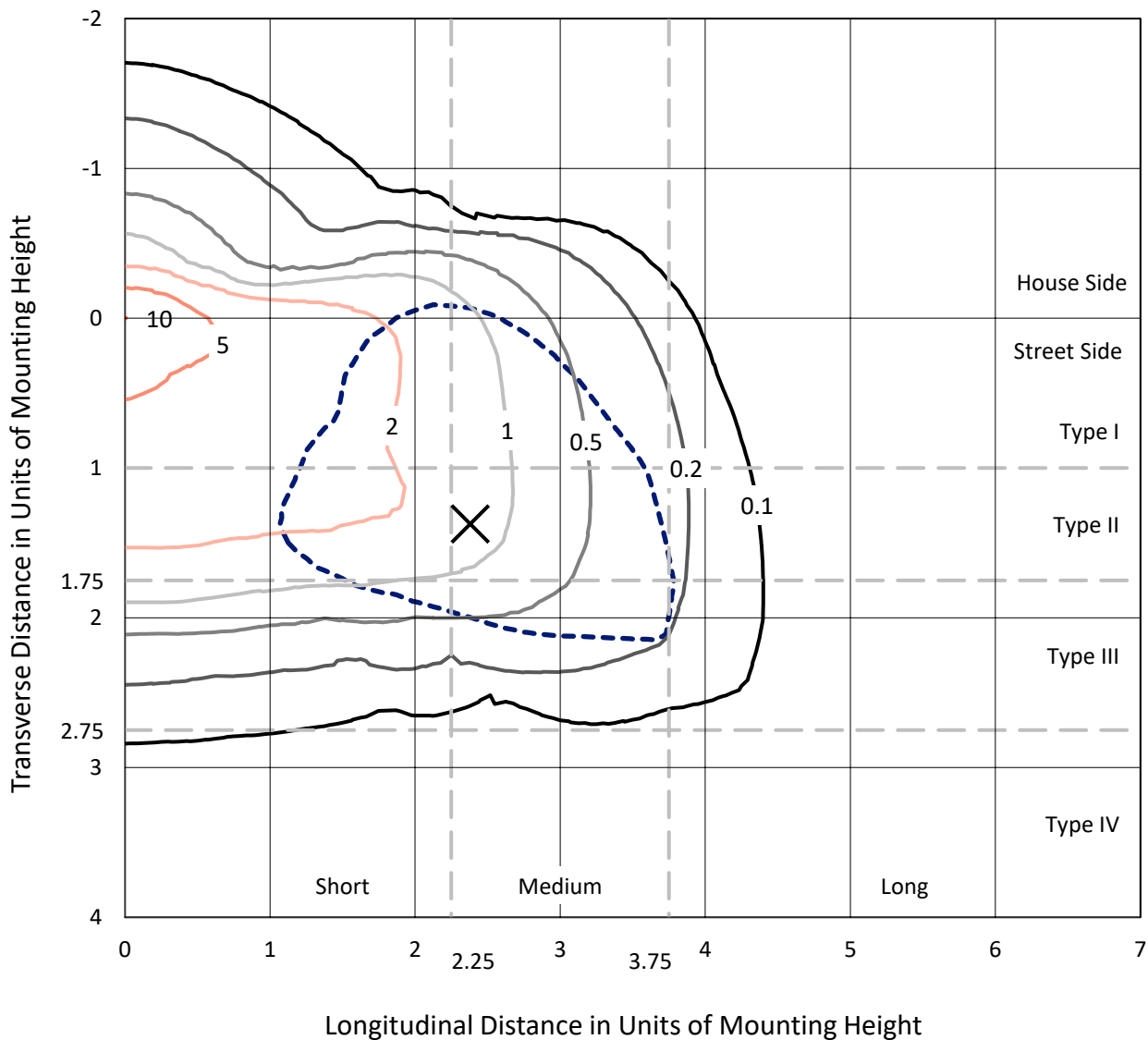
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

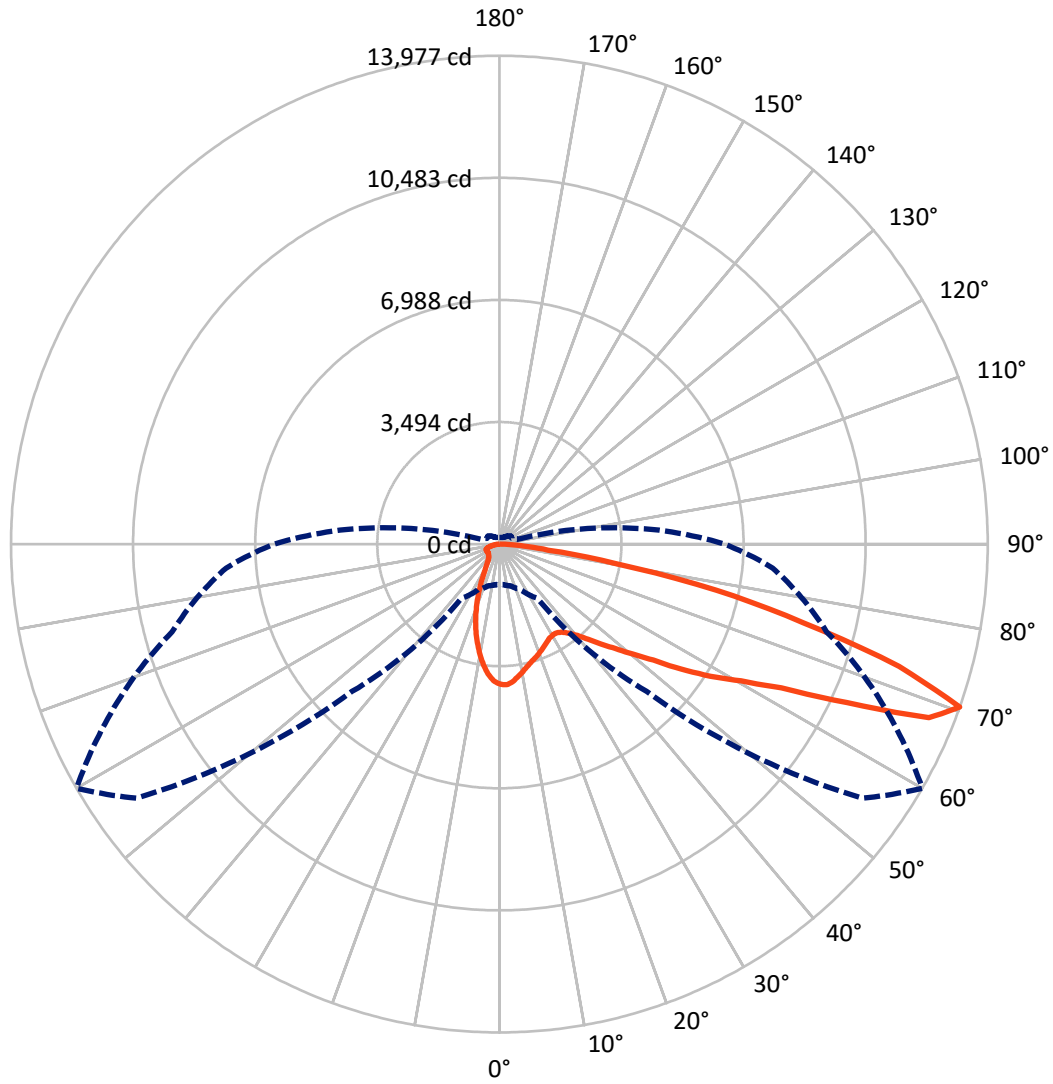
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2481.1	0.0	2481.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	12026.1	0.0	12026.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	14507.2	0.0	14507.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.0	2.4
10°-20°	775.2	5.3
20°-30°	992.8	6.8
30°-40°	1304.7	9.0
40°-50°	1893.0	13.0
50°-60°	2953.5	20.4
60°-70°	3866.7	26.7
70°-80°	2138.1	14.7
80°-90°	237.3	1.6
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°	14507.2	100.0
0°-180°	14507.2	100.0

Coefficient of Utilization



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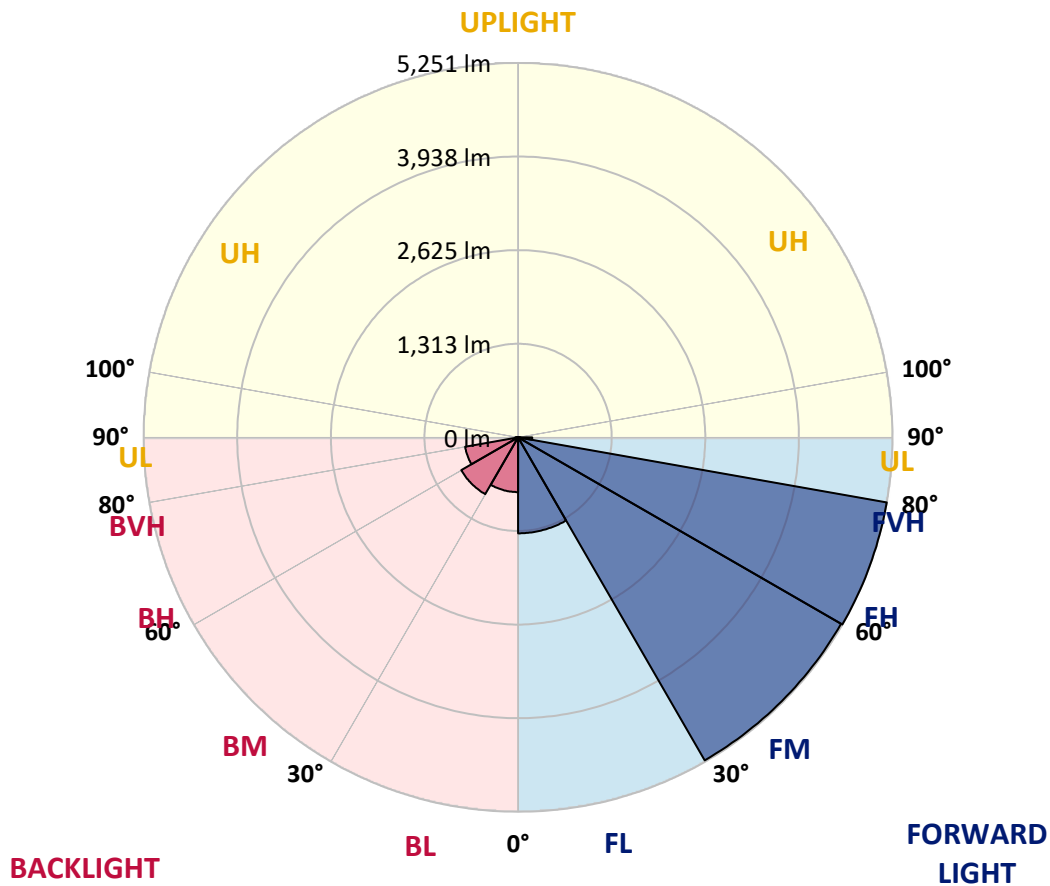
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1346.4	9.3			
FM (30°-60°)	5231.2	36.1			
FH (60°-80°)	5250.8	36.2			G3/7500
FVH (80°-90°)	197.7	1.4			G2/225
BL (0°-30°)	767.6	5.3	B2/1000		
BM (30°-60°)	919.9	6.3	B1/1000		
BH (60°-80°)	754.0	5.2	B2/1000		G2/1000
BVH (80°-90°)	39.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	4014.3	4014.3	4014.3	4014.3	4014.3	4014.3	4014.3	4014.3	4014.3	4014.3	4014.3
2.5°	3958.1	3962.3	3974.0	3991.0	4008.0	4016.5	4037.7	4031.3	4027.1	4018.6	4008.0
5°	3782.9	3791.4	3802.0	3834.9	3872.1	3901.8	3949.6	3954.9	3957.0	3961.3	3944.3
7.5°	3560.0	3562.2	3587.6	3631.2	3680.0	3730.9	3810.5	3832.8	3851.9	3873.2	3859.4
10°	3313.8	3319.1	3338.2	3400.8	3484.7	3560.0	3667.2	3704.4	3744.7	3791.4	3772.3
12.5°	3112.1	3113.2	3144.0	3210.8	3302.1	3404.0	3537.7	3582.3	3635.4	3708.6	3691.7
15°	2951.8	2951.8	2980.5	3037.8	3142.9	3262.8	3422.1	3479.4	3551.5	3650.3	3620.5
17.5°	2824.5	2825.5	2843.6	2904.1	2997.5	3130.2	3319.1	3396.6	3476.2	3606.7	3562.2
20°	2757.6	2752.3	2755.5	2792.6	2872.2	3000.7	3216.1	3306.4	3413.6	3577.0	3509.1
22.5°	2754.4	2744.9	2731.1	2734.2	2780.9	2887.1	3105.7	3215.1	3349.9	3552.6	3455.0
25°	2808.5	2797.9	2773.5	2745.9	2741.7	2805.4	3001.7	3125.9	3284.1	3542.0	3402.9
27.5°	2899.8	2892.4	2860.6	2819.2	2775.6	2773.5	2923.2	3052.7	3236.3	3552.6	3365.8
30°	3020.8	3008.1	2987.9	2934.9	2869.0	2801.1	2892.4	3013.4	3204.5	3586.6	3349.9
32.5°	3157.8	3150.3	3131.2	3078.1	3008.1	2899.8	2916.8	3021.9	3204.5	3646.0	3353.1
35°	3303.2	3302.1	3302.1	3267.1	3189.6	3054.8	3013.4	3094.1	3253.3	3741.5	3387.0
37.5°	3444.3	3443.3	3477.2	3490.0	3401.9	3256.5	3177.9	3238.4	3360.5	3882.7	3470.9
40°	3559.0	3563.2	3637.5	3701.2	3652.4	3517.6	3407.2	3438.0	3534.6	4083.3	3617.4
42.5°	3674.7	3686.3	3797.8	3910.3	3929.4	3812.7	3701.2	3719.3	3784.0	4348.7	3836.0
45°	3801.0	3806.3	3962.3	4119.4	4211.8	4142.8	4051.5	4075.9	4090.8	4676.7	4161.9
47.5°	3923.0	3936.8	4138.5	4354.0	4529.1	4522.8	4471.8	4464.4	4467.6	5075.8	4547.2
50°	4089.7	4109.9	4346.6	4606.6	4863.5	4981.3	4996.2	4939.9	4916.5	5519.4	5026.9
52.5°	4406.0	4406.0	4618.3	4874.1	5219.1	5510.9	5610.7	5518.4	5444.1	5988.6	5536.4
55°	4801.9	4818.9	4987.7	5194.6	5631.9	6068.2	6405.7	6303.8	6093.7	6499.1	6070.3
57.5°	4978.1	4999.3	5266.8	5588.4	6172.2	6701.9	7170.0	7133.9	6827.1	7029.9	6624.4
60°	4659.7	4704.3	5072.6	5611.8	6661.5	7724.0	8054.1	7949.1	7510.7	7587.1	7225.2
62.5°	3887.0	3935.8	4344.4	5097.0	6593.6	8829.0	9447.8	9060.4	8364.1	8290.8	8025.5
65°	2319.2	2317.1	2808.5	3806.3	5756.1	9135.7	11653.4	10930.6	9682.4	9256.7	8849.1
67.5°	1474.3	1471.1	1574.1	2016.7	3830.7	8384.2	13071.5	13259.4	11473.0	9966.8	8917.1
70°	1163.3	1162.3	1236.6	1438.2	1894.7	5966.3	12676.7	13976.9	12554.6	9696.2	7851.4
72.5°	848.1	850.2	964.8	1204.7	1461.6	2995.4	10265.1	11959.1	11547.3	8559.4	6373.9
75°	609.3	612.4	681.4	922.4	1348.0	1637.8	6826.1	8992.4	8785.5	6861.1	4384.8
77.5°	387.4	391.7	452.2	646.4	1089.0	1322.5	4138.5	6348.4	5845.3	3865.7	1559.2
80°	236.7	250.5	301.4	481.9	870.4	992.4	2068.7	3344.6	2927.4	1060.4	524.3
82.5°	122.1	132.7	181.5	298.3	599.7	871.4	1170.8	1405.3	906.5	443.7	279.2
85°	38.2	44.6	63.7	121.0	285.5	540.3	774.8	698.4	416.1	209.1	129.5
87.5°	9.6	9.6	10.6	10.6	11.7	24.4	149.7	158.2	110.4	65.8	53.1
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°	4014.3	4014.3	4014.3	4014.3	4014.3	4014.3	4014.3	4014.3	4014.3	4014.3	4014.3
2.5°	3986.7	3961.3	3950.6	3949.6	3923.0	3884.8	3859.4	3841.3	3830.7	3828.6	3828.6
5°	3915.6	3882.7	3839.2	3806.3	3735.2	3663.0	3602.5	3568.5	3529.3	3523.9	3522.9
7.5°	3821.1	3773.4	3690.6	3598.2	3474.1	3354.1	3252.2	3183.2	3114.2	3101.5	3097.3
10°	3719.3	3654.5	3513.3	3350.9	3165.2	2985.8	2829.8	2707.7	2627.0	2569.7	2559.1
12.5°	3618.4	3532.4	3325.5	3083.5	2828.7	2583.5	2348.9	2149.4	2005.0	1921.2	1906.3
15°	3523.9	3404.0	3120.6	2811.7	2480.6	2145.2	1812.9	1553.9	1351.2	1279.0	1262.0
17.5°	3438.0	3288.3	2922.1	2530.5	2117.6	1679.2	1301.3	1071.0	952.1	916.0	907.5
20°	3352.0	3169.4	2720.4	2234.3	1732.3	1240.8	951.0	842.8	798.2	784.4	780.2
22.5°	3259.7	3038.9	2500.7	1942.4	1342.7	928.8	778.0	730.3	716.5	717.5	716.5
25°	3167.3	2906.2	2270.4	1625.1	999.9	753.6	679.3	661.3	664.5	674.0	676.1
27.5°	3090.9	2788.4	2044.3	1276.9	781.2	648.5	613.5	612.4	624.1	636.9	639.0
30°	3035.7	2683.3	1821.4	981.8	643.2	576.4	562.6	568.9	582.7	592.3	595.5
32.5°	2996.4	2593.1	1583.7	771.7	563.6	525.4	519.0	525.4	533.9	543.5	545.6
35°	2982.6	2527.3	1350.1	629.4	509.5	488.3	484.0	487.2	491.4	496.7	498.9
37.5°	3013.4	2494.4	1106.0	547.7	476.6	463.8	457.5	455.4	456.4	458.5	459.6
40°	3104.7	2509.2	906.5	499.9	455.4	443.7	433.1	428.8	427.8	429.9	428.8
42.5°	3261.8	2571.8	762.1	472.3	438.4	421.4	409.7	405.5	405.5	410.8	410.8
45°	3492.1	2695.0	658.1	452.2	423.5	402.3	389.5	387.4	391.7	400.2	401.2
47.5°	3829.6	2875.4	595.5	437.3	409.7	385.3	372.6	371.5	380.0	393.8	394.9
50°	4229.8	3135.5	561.5	426.7	400.2	371.5	358.8	359.8	369.4	384.2	387.4
52.5°	4711.7	3490.0	563.6	422.4	394.9	363.0	350.3	348.1	357.7	372.6	375.7
55°	5209.5	3920.9	605.0	423.5	387.4	358.8	341.8	334.4	342.8	353.5	354.5
57.5°	5757.2	4407.1	708.0	421.4	377.9	354.5	334.4	317.4	322.7	329.0	332.2
60°	6375.0	4979.2	929.8	425.6	373.6	345.0	319.5	297.2	296.1	300.4	301.4
62.5°	7200.7	5757.2	1179.2	433.1	383.2	333.3	297.2	273.8	269.6	271.7	272.8
65°	7832.3	6128.7	1100.7	426.7	403.3	324.8	276.0	251.6	243.1	240.9	240.9
67.5°	7575.4	5637.3	766.4	409.7	412.9	325.9	259.0	228.2	217.6	212.3	211.2
70°	6446.1	4579.0	532.8	392.7	402.3	323.7	240.9	209.1	195.3	187.9	186.8
72.5°	5092.7	3496.4	430.9	358.8	365.1	291.9	214.4	187.9	176.2	166.6	166.6
75°	3277.7	2133.5	359.8	319.5	298.3	227.1	185.8	167.7	156.0	146.5	146.5
77.5°	1102.8	791.8	279.2	270.7	222.9	170.9	156.0	144.4	134.8	126.3	125.2
80°	447.9	375.7	204.9	204.9	156.0	130.6	122.1	116.8	110.4	99.8	99.8
82.5°	260.1	228.2	143.3	124.2	104.0	90.2	84.9	79.6	79.6	72.2	72.2
85°	125.2	126.3	86.0	76.4	59.4	52.0	49.9	46.7	45.6	41.4	40.3
87.5°	67.9	69.0	43.5	34.0	23.4	20.2	17.0	15.9	14.9	13.8	13.8
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)