

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: P636716

Luminaire Tested: GWS-SA4B-735-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636716
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-735-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13987.8 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

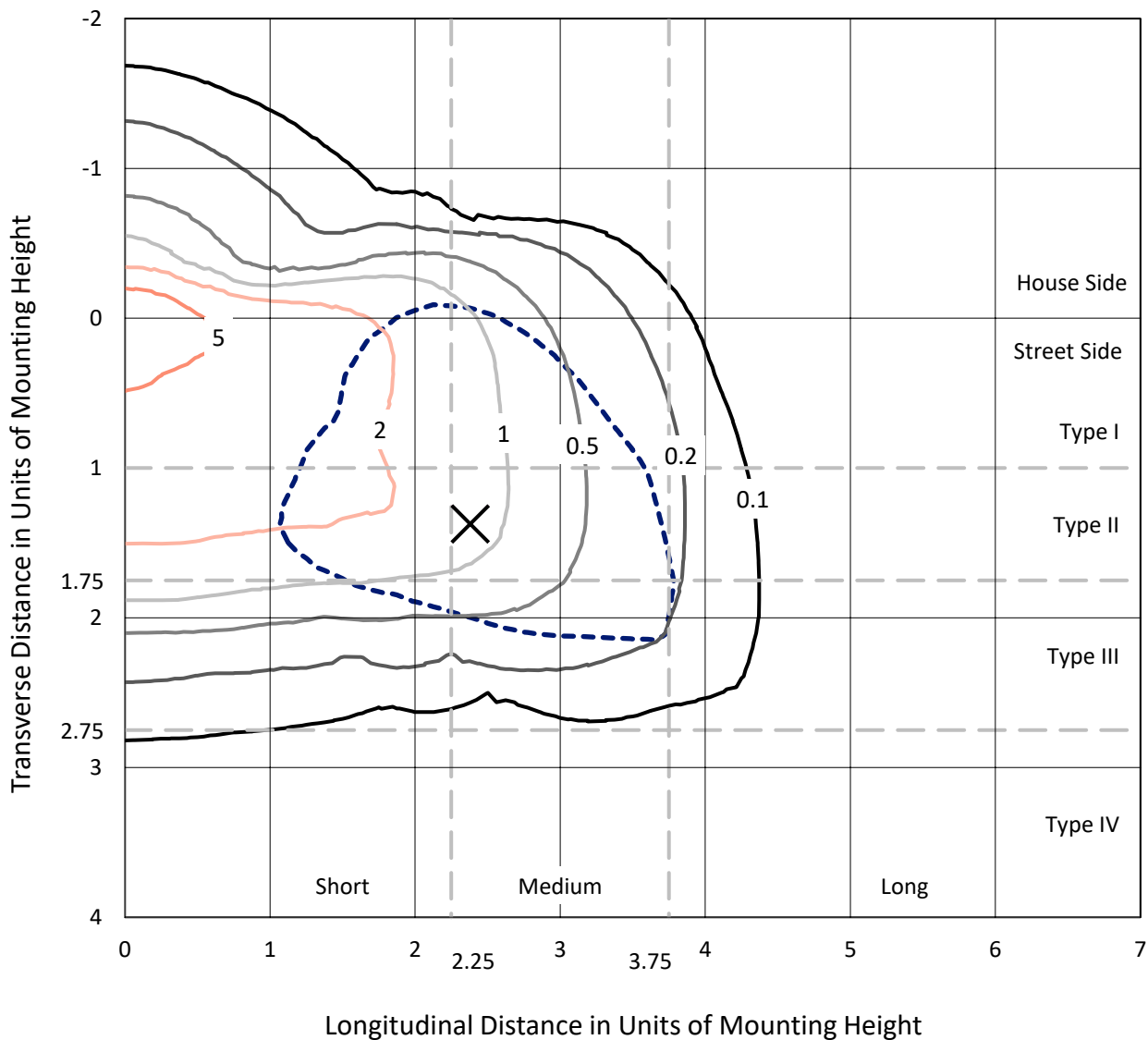
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

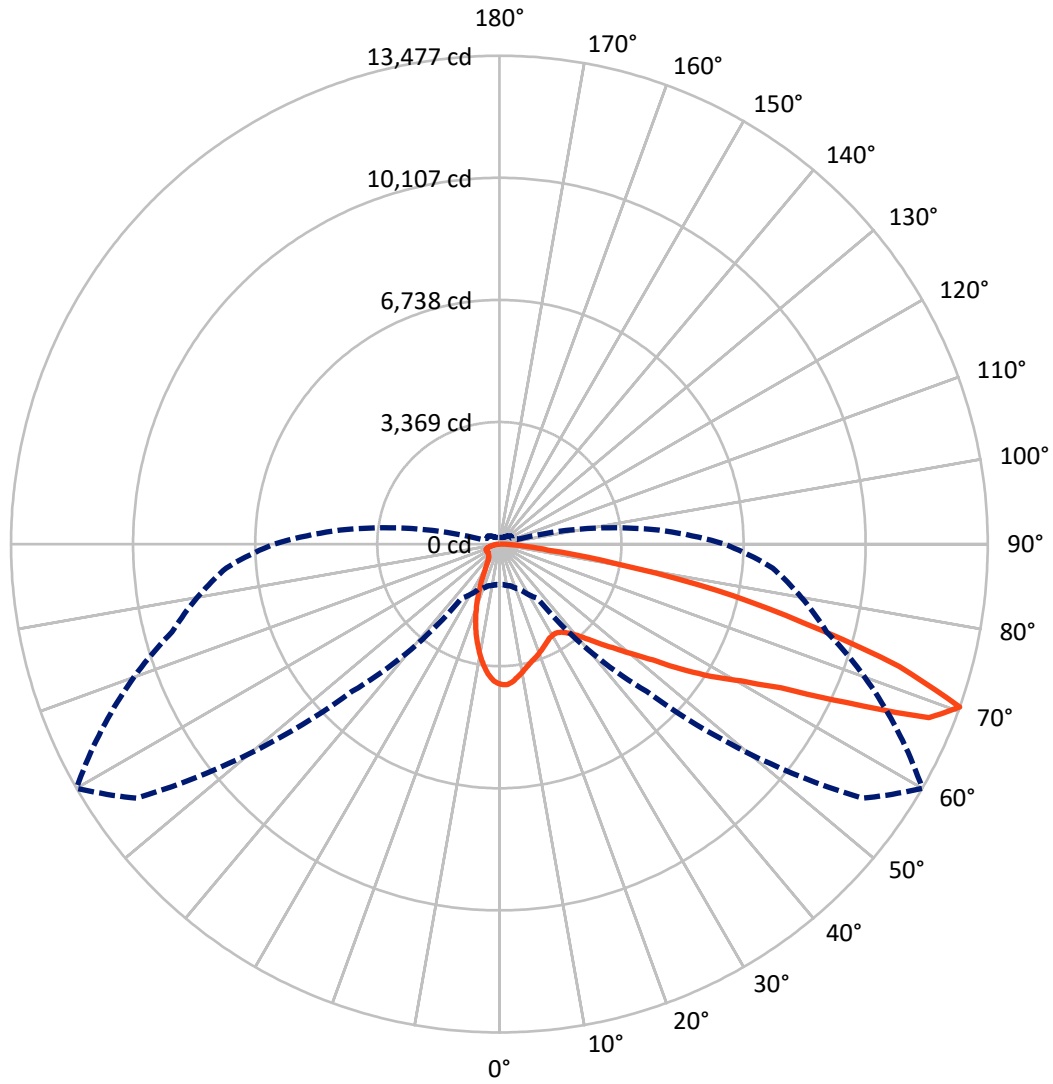
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.7 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	2392.2	0.0	2392.2
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	11595.6	0.0	11595.6
	% Fixture	82.9	0.0	82.9
Total	Lumens	13987.8	0.0	13987.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.6	2.4
10°-20°	747.4	5.3
20°-30°	957.2	6.8
30°-40°	1258.0	9.0
40°-50°	1825.2	13.0
50°-60°	2847.7	20.4
60°-70°	3728.2	26.7
70°-80°	2061.6	14.7
80°-90°	228.8	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°	13987.8	100.0
0°-180°	13987.8	100.0

Coefficient of Utilization



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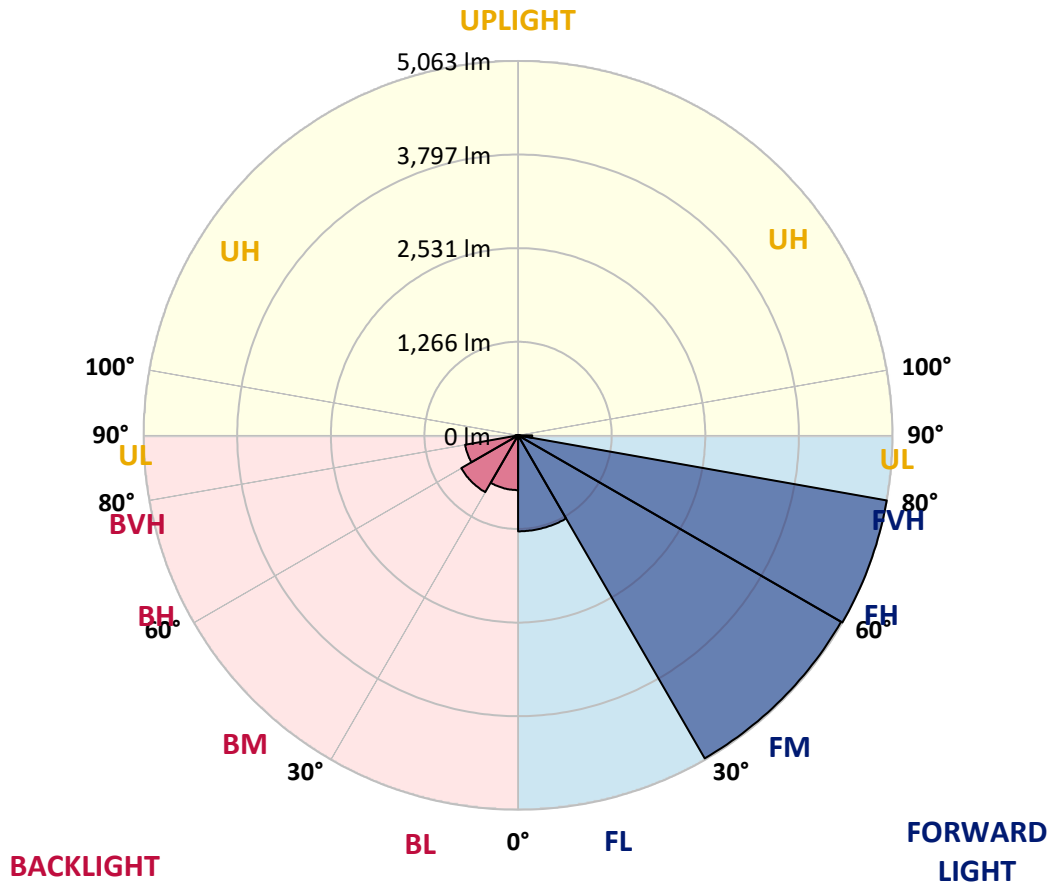
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1298.2	9.3			
FM (30°-60°)	5043.9	36.1			
FH (60°-80°)	5062.8	36.2			G3/7500
FVH (80°-90°)	190.6	1.4			G2/225
BL (0°-30°)	740.1	5.3	B2/1000		
BM (30°-60°)	887.0	6.3	B1/1000		
BH (60°-80°)	727.0	5.2	B2/1000		G2/1000
BVH (80°-90°)	38.1	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°	3870.6	3870.6	3870.6	3870.6	3870.6	3870.6	3870.6	3870.6	3870.6	3870.6	3870.6
2.5°	3816.4	3820.5	3831.7	3848.1	3864.5	3872.7	3893.1	3887.0	3882.9	3874.7	3864.5
5°	3647.5	3655.7	3665.9	3697.6	3733.5	3762.1	3808.2	3813.3	3815.3	3819.4	3803.1
7.5°	3432.6	3434.6	3459.2	3501.1	3548.2	3597.3	3674.1	3695.6	3714.0	3734.5	3721.2
10°	3195.1	3200.3	3218.7	3279.1	3359.9	3432.6	3535.9	3571.8	3610.7	3655.7	3637.3
12.5°	3000.7	3001.7	3031.4	3095.9	3183.9	3282.1	3411.1	3454.1	3505.2	3575.9	3559.5
15°	2846.2	2846.2	2873.8	2929.1	3030.4	3146.0	3299.5	3354.8	3424.4	3519.6	3490.9
17.5°	2723.3	2724.4	2741.8	2800.1	2890.2	3018.1	3200.3	3275.0	3351.7	3477.6	3434.6
20°	2658.9	2653.7	2656.8	2692.6	2769.4	2893.2	3101.0	3188.0	3291.3	3449.0	3383.5
22.5°	2655.8	2646.6	2633.3	2636.4	2681.4	2783.7	2994.6	3100.0	3229.9	3425.4	3331.3
25°	2708.0	2697.8	2674.2	2647.6	2643.5	2704.9	2894.3	3014.0	3166.5	3415.2	3281.1
27.5°	2796.0	2788.8	2758.1	2718.2	2676.3	2674.2	2818.5	2943.4	3120.4	3425.4	3245.3
30°	2912.7	2900.4	2881.0	2829.8	2766.3	2700.8	2788.8	2905.5	3089.7	3458.2	3229.9
32.5°	3044.7	3037.5	3019.1	2967.9	2900.4	2796.0	2812.4	2913.7	3089.7	3515.5	3233.0
35°	3184.9	3183.9	3183.9	3150.1	3075.4	2945.4	2905.5	2983.3	3136.8	3607.6	3265.8
37.5°	3321.0	3320.0	3352.8	3365.0	3280.1	3139.9	3064.1	3122.5	3240.2	3743.7	3346.6
40°	3431.6	3435.6	3507.3	3568.7	3521.6	3391.6	3285.2	3314.9	3408.0	3937.1	3487.8
42.5°	3543.1	3554.4	3661.8	3770.3	3788.7	3676.2	3568.7	3586.1	3648.5	4193.0	3698.7
45°	3664.9	3670.0	3820.5	3971.9	4061.0	3994.4	3906.4	3930.0	3944.3	4509.2	4012.9
47.5°	3782.6	3795.9	3990.3	4198.1	4367.0	4360.8	4311.7	4304.5	4307.6	4894.0	4384.4
50°	3943.3	3962.7	4190.9	4441.7	4689.3	4802.9	4817.3	4763.0	4740.5	5321.8	4847.0
52.5°	4248.3	4248.3	4452.9	4699.6	5032.2	5313.6	5409.8	5320.8	5249.2	5774.2	5338.2
55°	4630.0	4646.4	4809.1	5008.7	5430.3	5850.9	6176.4	6078.1	5875.5	6266.5	5853.0
57.5°	4799.9	4820.3	5078.3	5388.3	5951.2	6461.9	6913.3	6878.5	6582.7	6778.2	6387.2
60°	4492.8	4535.8	4891.0	5410.9	6423.0	7447.5	7765.8	7664.5	7241.8	7315.5	6966.5
62.5°	3747.8	3794.9	4188.9	4914.5	6357.5	8512.9	9109.5	8736.0	8064.6	7994.0	7738.1
65°	2236.2	2234.1	2708.0	3670.0	5550.1	8808.6	11236.2	10539.3	9335.7	8925.3	8532.3
67.5°	1421.5	1418.5	1517.7	1944.5	3693.6	8084.1	12603.5	12784.7	11062.2	9610.0	8597.8
70°	1121.7	1120.7	1192.3	1386.7	1826.8	5752.7	12222.8	13476.5	12105.1	9349.0	7570.3
72.5°	817.7	819.8	930.3	1161.6	1409.3	2888.1	9897.6	11531.0	11133.9	8252.9	6145.7
75°	587.4	590.5	657.0	889.4	1299.8	1579.1	6581.7	8670.5	8470.9	6615.4	4227.8
77.5°	373.6	377.6	436.0	623.3	1050.0	1275.2	3990.3	6121.1	5636.0	3727.3	1503.4
80°	228.2	241.5	290.7	464.6	839.2	956.9	1994.7	3224.8	2822.6	1022.4	505.6
82.5°	117.7	127.9	175.0	287.6	578.2	840.2	1128.8	1355.0	874.0	427.8	269.2
85°	36.8	43.0	61.4	116.7	275.3	520.9	747.1	673.4	401.2	201.6	124.9
87.5°	9.2	9.2	10.2	10.2	11.3	23.5	144.3	152.5	106.4	63.5	51.2
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°	3870.6	3870.6	3870.6	3870.6	3870.6	3870.6	3870.6	3870.6	3870.6	3870.6	3870.6
2.5°	3844.0	3819.4	3809.2	3808.2	3782.6	3745.7	3721.2	3703.8	3693.6	3691.5	3691.5
5°	3775.4	3743.7	3701.7	3670.0	3601.4	3531.9	3473.5	3440.8	3402.9	3397.8	3396.8
7.5°	3684.3	3638.3	3558.5	3469.4	3349.7	3234.0	3135.8	3069.3	3002.7	2990.5	2986.4
10°	3586.1	3523.7	3387.5	3231.0	3051.9	2878.9	2728.5	2610.8	2533.0	2477.7	2467.5
12.5°	3488.9	3406.0	3206.4	2973.1	2727.4	2491.0	2264.8	2072.4	1933.3	1852.4	1838.1
15°	3397.8	3282.1	3008.9	2711.1	2391.8	2068.3	1748.0	1498.3	1302.8	1233.2	1216.9
17.5°	3314.9	3170.6	2817.5	2439.9	2041.7	1619.1	1254.7	1032.6	918.0	883.2	875.0
20°	3232.0	3056.0	2623.0	2154.3	1670.2	1196.4	917.0	812.6	769.6	756.3	752.2
22.5°	3142.9	2930.1	2411.2	1872.9	1294.6	895.5	750.2	704.1	690.8	691.8	690.8
25°	3053.9	2802.1	2189.1	1566.9	964.1	726.6	655.0	637.6	640.7	649.9	651.9
27.5°	2980.2	2688.5	1971.1	1231.2	753.2	625.3	591.5	590.5	601.8	614.1	616.1
30°	2927.0	2587.2	1756.2	946.7	620.2	555.7	542.4	548.6	561.9	571.1	574.1
32.5°	2889.1	2500.2	1527.0	744.0	543.4	506.6	500.5	506.6	514.8	524.0	526.0
35°	2875.8	2436.8	1301.8	606.9	491.2	470.8	466.7	469.8	473.8	479.0	481.0
37.5°	2905.5	2405.1	1066.4	528.1	459.5	447.2	441.1	439.1	440.1	442.1	443.1
40°	2993.5	2419.4	874.0	482.0	439.1	427.8	417.6	413.5	412.4	414.5	413.5
42.5°	3145.0	2479.8	734.8	455.4	422.7	406.3	395.0	390.9	390.9	396.1	396.1
45°	3367.1	2598.5	634.5	436.0	408.3	387.9	375.6	373.6	377.6	385.8	386.9
47.5°	3692.5	2772.5	574.1	421.7	395.0	371.5	359.2	358.2	366.4	379.7	380.7
50°	4078.4	3023.2	541.4	411.4	385.8	358.2	345.9	346.9	356.2	370.5	373.6
52.5°	4543.0	3365.0	543.4	407.3	380.7	350.0	337.7	335.7	344.9	359.2	362.3
55°	5023.0	3780.5	583.4	408.3	373.6	345.9	329.5	322.4	330.6	340.8	341.8
57.5°	5551.1	4249.3	682.6	406.3	364.3	341.8	322.4	306.0	311.1	317.3	320.3
60°	6146.7	4800.9	896.5	410.4	360.2	332.6	308.1	286.6	285.5	289.6	290.7
62.5°	6942.9	5551.1	1137.0	417.6	369.5	321.4	286.6	264.0	260.0	262.0	263.0
65°	7551.9	5909.3	1061.3	411.4	388.9	313.2	266.1	242.6	234.4	232.3	232.3
67.5°	7304.2	5435.4	738.9	395.0	398.1	314.2	249.7	220.0	209.8	204.7	203.7
70°	6215.3	4415.1	513.8	378.7	387.9	312.1	232.3	201.6	188.3	181.1	180.1
72.5°	4910.4	3371.2	415.5	345.9	352.1	281.4	206.7	181.1	169.9	160.7	160.7
75°	3160.3	2057.1	346.9	308.1	287.6	219.0	179.1	161.7	150.4	141.2	141.2
77.5°	1063.3	763.5	269.2	261.0	214.9	164.8	150.4	139.2	130.0	121.8	120.8
80°	431.9	362.3	197.5	197.5	150.4	125.9	117.7	112.6	106.4	96.2	96.2
82.5°	250.7	220.0	138.2	119.7	100.3	87.0	81.9	76.8	76.8	69.6	69.6
85°	120.8	121.8	82.9	73.7	57.3	50.1	48.1	45.0	44.0	39.9	38.9
87.5°	65.5	66.5	42.0	32.7	22.5	19.4	16.4	15.4	14.3	13.3	13.3
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)