

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: P637210

Luminaire Tested: GWS-SA4C-735-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637210  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-735-U-SL3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

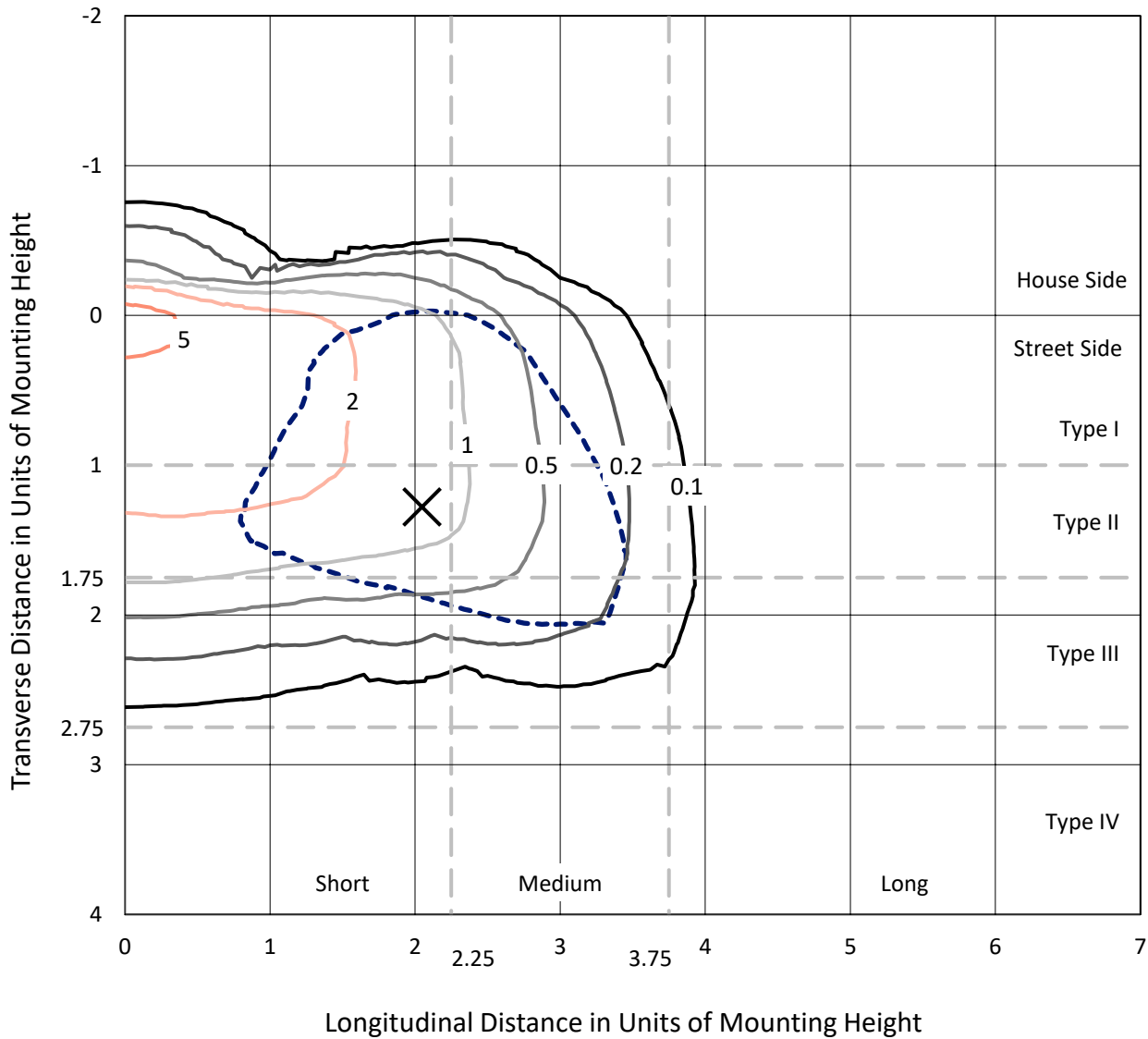
Lumens per Lamp: N/A  
Luminaire Lumens: 15506.4 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): 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

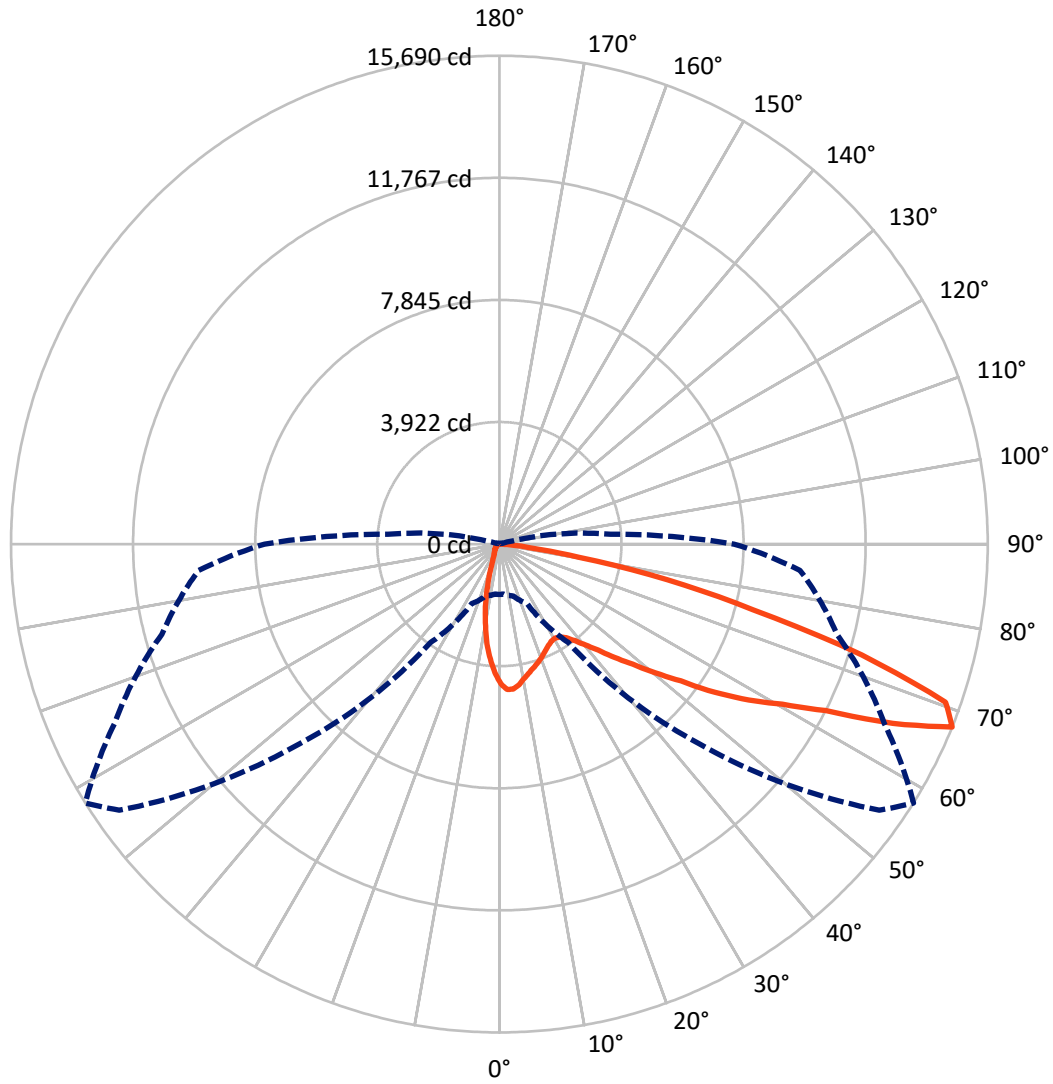
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type III - 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
<b>House Side</b>	Lumens	1514.9	0.0	1514.9
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	13991.5	0.0	13991.5
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	15506.4	0.0	15506.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	363.5	2.3
10°-20°	756.6	4.9
20°-30°	1020.3	6.6
30°-40°	1433.7	9.2
40°-50°	2214.3	14.3
50°-60°	3540.9	22.8
60°-70°	4192.7	27.0
70°-80°	1854.8	12.0
80°-90°	129.7	0.8
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°	15506.4	100.0
0°-180°	15506.4	100.0

**Coefficient of Utilization**



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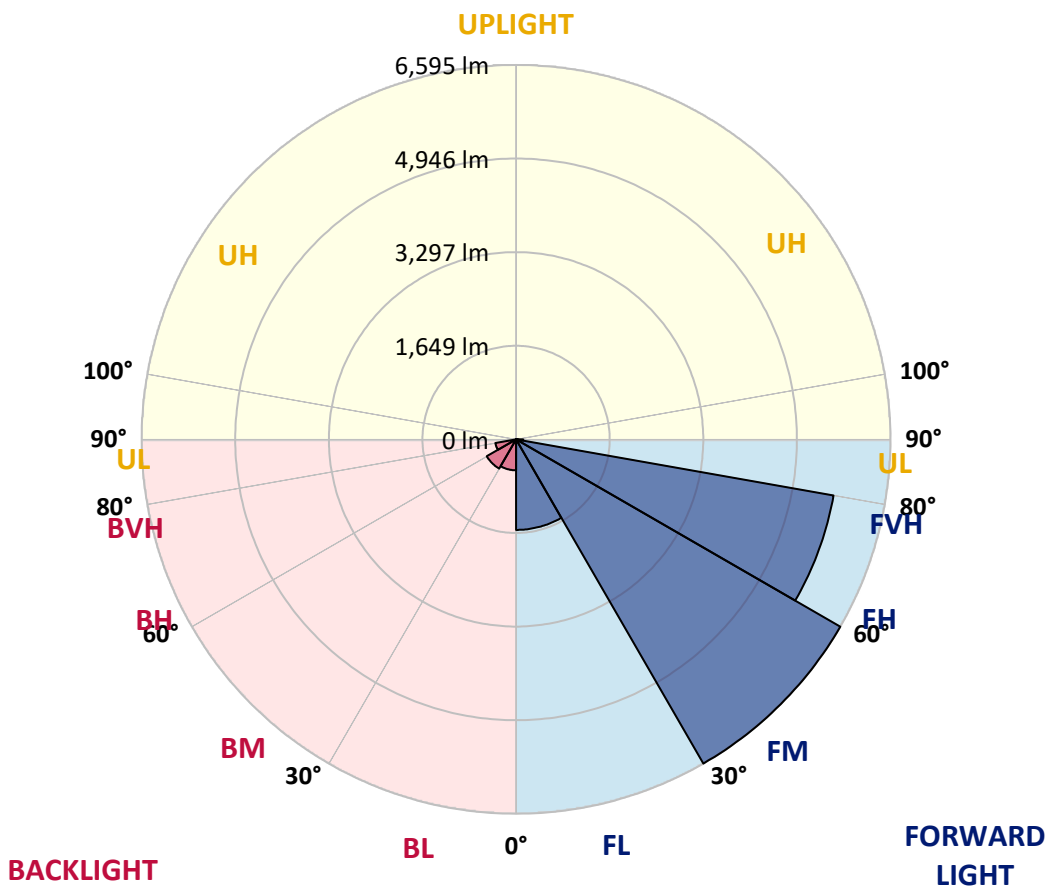
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1595.2	10.3			
FM (30°-60°)	6594.5	42.5			
FH (60°-80°)	5677.6	36.6			G3/7500
FVH (80°-90°)	124.1	0.8			G2/225
BL (0°-30°)	545.1	3.5	B2/1000		
BM (30°-60°)	594.4	3.8	B1/1000		
BH (60°-80°)	369.8	2.4	B1/500		G1/500
BVH (80°-90°)	5.5	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4472.8	4472.8	4472.8	4472.8	4472.8	4472.8	4472.8	4472.8	4472.8	4472.8	4472.8
2.5°	4704.7	4713.0	4723.9	4737.7	4734.9	4722.6	4707.5	4673.1	4651.2	4582.6	4498.8
5°	4553.7	4552.4	4579.8	4605.9	4652.6	4677.3	4711.6	4680.0	4669.0	4586.7	4450.8
7.5°	4258.7	4273.8	4305.3	4346.5	4413.8	4486.5	4568.8	4559.2	4592.2	4537.3	4368.5
10°	3969.1	3960.9	4010.3	4072.0	4175.0	4268.3	4387.7	4386.3	4472.8	4467.3	4275.1
12.5°	3715.2	3713.8	3752.2	3822.2	3943.0	4073.4	4235.3	4239.5	4346.5	4390.4	4195.5
15°	3501.1	3503.8	3540.9	3613.6	3738.5	3897.7	4085.7	4120.1	4240.8	4330.0	4117.3
17.5°	3348.7	3350.1	3372.1	3435.2	3557.4	3727.5	3954.0	4000.7	4155.7	4284.7	4054.2
20°	3278.8	3273.3	3277.4	3308.9	3403.6	3558.7	3819.5	3879.9	4077.5	4253.2	3996.5
22.5°	3288.4	3280.1	3260.9	3256.8	3299.3	3417.4	3676.8	3750.9	3992.4	4234.0	3944.4
25°	3373.5	3355.6	3328.2	3287.0	3270.5	3329.5	3551.9	3628.7	3912.8	4235.3	3904.6
27.5°	3503.8	3484.6	3450.3	3395.4	3330.9	3306.2	3466.8	3539.5	3856.5	4266.9	3885.4
30°	3669.9	3654.8	3621.9	3556.0	3469.5	3368.0	3448.9	3509.3	3829.1	4331.4	3893.6
32.5°	3866.2	3855.2	3827.7	3767.3	3668.5	3513.4	3509.3	3556.0	3851.1	4424.7	3925.2
35°	4055.6	4059.7	4061.0	4028.1	3922.4	3734.4	3675.4	3691.9	3941.6	4564.7	3996.5
37.5°	4260.0	4250.4	4299.8	4323.2	4221.6	4021.2	3932.0	3933.4	4114.6	4772.0	4131.0
40°	4415.1	4417.9	4524.9	4621.0	4578.5	4384.9	4257.3	4255.9	4380.8	5056.1	4347.9
42.5°	4560.6	4578.5	4736.3	4901.0	4960.0	4788.4	4696.5	4662.2	4754.1	5440.3	4673.1
45°	4715.7	4741.8	4962.7	5197.4	5352.5	5250.9	5178.2	5191.9	5202.9	5887.8	5111.0
47.5°	4896.9	4913.3	5186.4	5517.2	5806.8	5780.7	5784.8	5768.4	5762.9	6451.8	5690.1
50°	5116.4	5154.9	5469.2	5864.4	6259.7	6432.6	6490.3	6497.1	6407.9	7066.7	6289.9
52.5°	5583.1	5629.7	5898.7	6244.6	6753.8	7117.5	7352.1	7305.5	7168.2	7662.3	6947.3
55°	6133.4	6169.1	6428.5	6786.7	7357.6	7868.2	8425.4	8406.2	8069.9	8289.5	7488.0
57.5°	6185.6	6225.4	6627.5	7176.5	8133.1	8796.0	9382.0	9443.7	8951.0	8734.2	7971.1
60°	5599.5	5680.5	6229.5	6967.9	8429.5	10043.5	10430.5	10442.9	9597.5	9185.7	8561.3
62.5°	4487.9	4526.3	5079.4	6042.8	7972.5	10770.9	12032.2	11771.4	10427.8	9884.3	9495.9
65°	2352.4	2508.8	2990.5	4056.9	6465.6	10517.0	13959.1	13887.7	11921.0	10884.8	10223.3
67.5°	1614.0	1612.6	1726.5	2114.9	3855.2	9055.3	14904.7	15689.7	13647.5	11227.9	9696.3
70°	1228.3	1232.4	1334.0	1586.5	1996.9	6027.7	13867.1	15209.4	13968.7	10194.5	7842.1
72.5°	815.2	823.5	992.3	1281.9	1594.8	2954.9	10776.4	12169.4	11753.6	8188.0	5519.9
75°	487.2	494.1	614.9	931.9	1417.7	1653.8	6847.1	8413.0	8090.5	5643.5	2959.0
77.5°	200.4	205.9	315.7	580.5	1037.6	1284.6	3786.6	5504.8	4846.1	2243.9	808.4
80°	83.7	86.5	152.3	406.2	748.0	805.6	1754.0	2587.0	1985.9	483.1	247.0
82.5°	30.2	31.6	56.3	223.7	465.3	606.6	885.2	1022.5	560.0	157.8	133.1
85°	1.4	1.4	13.7	75.5	177.0	171.6	506.4	490.0	185.3	65.9	79.6
87.5°	0.0	0.0	1.4	1.4	2.7	6.9	48.0	85.1	39.8	16.5	34.3
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°	4472.8	4472.8	4472.8	4472.8	4472.8	4472.8	4472.8	4472.8	4472.8	4472.8	4472.8
2.5°	4444.0	4371.2	4291.6	4217.5	4099.5	4029.5	3943.0	3904.6	3849.7	3836.0	3844.2
5°	4353.4	4228.5	4037.7	3864.8	3641.1	3461.3	3280.1	3203.3	3104.5	3038.6	3011.1
7.5°	4225.7	4062.4	3764.6	3450.3	3142.9	2814.9	2565.1	2400.4	2250.8	2168.5	2152.0
10°	4096.7	3884.0	3457.2	3007.0	2530.8	2138.3	1800.6	1550.9	1347.7	1255.8	1184.4
12.5°	3963.6	3698.7	3144.3	2556.9	2003.8	1468.5	1051.3	808.4	662.9	605.2	614.9
15°	3841.5	3520.3	2834.1	2106.7	1410.9	886.6	580.5	490.0	455.6	444.7	443.3
17.5°	3724.8	3351.5	2525.3	1668.9	930.5	543.5	444.7	422.7	413.1	407.6	407.6
20°	3619.1	3189.5	2223.3	1257.2	601.1	430.9	402.1	391.1	382.9	378.8	378.8
22.5°	3520.3	3033.1	1928.3	889.3	443.3	387.0	369.2	358.2	348.6	343.1	343.1
25°	3431.1	2891.7	1646.9	612.1	381.5	354.1	334.9	322.5	306.1	296.4	296.4
27.5°	3366.6	2765.5	1376.6	446.0	344.5	318.4	296.4	280.0	262.1	251.2	248.4
30°	3328.2	2658.4	1103.4	366.4	310.2	284.1	259.4	238.8	218.2	207.2	205.9
32.5°	3306.2	2559.6	853.7	319.8	281.3	251.2	223.7	201.7	181.2	168.8	167.4
35°	3314.4	2482.7	639.6	288.2	253.9	222.3	192.1	170.2	152.3	141.4	138.6
37.5°	3385.8	2448.4	480.4	263.5	230.6	197.6	166.1	145.5	129.0	120.8	119.4
40°	3524.4	2455.3	377.4	244.3	211.4	172.9	142.7	123.5	111.2	104.3	102.9
42.5°	3739.9	2512.9	311.5	227.8	190.8	151.0	123.5	108.4	96.1	89.2	87.8
45°	4061.0	2632.3	271.7	208.6	168.8	130.4	107.1	93.3	82.3	74.1	72.7
47.5°	4526.3	2839.6	245.7	190.8	149.6	112.5	92.0	78.2	68.6	61.8	60.4
50°	5021.7	3088.0	223.7	172.9	133.1	97.4	78.2	64.5	56.3	49.4	48.0
52.5°	5550.1	3355.6	207.2	156.5	118.0	83.7	65.9	53.5	45.3	38.4	37.1
55°	6057.9	3624.6	188.0	145.5	100.2	71.4	54.9	43.9	35.7	30.2	30.2
57.5°	6552.0	3871.6	167.4	127.6	82.3	60.4	45.3	35.7	28.8	24.7	23.3
60°	7142.2	4213.4	144.1	108.4	68.6	50.8	37.1	28.8	23.3	19.2	19.2
62.5°	8019.2	4568.8	123.5	90.6	57.6	42.5	30.2	23.3	19.2	16.5	15.1
65°	8306.0	4376.7	104.3	74.1	46.7	34.3	24.7	20.6	16.5	15.1	13.7
67.5°	7540.2	3587.6	86.5	60.4	38.4	28.8	22.0	17.8	15.1	13.7	12.4
70°	5883.6	2545.9	67.2	45.3	31.6	23.3	19.2	16.5	13.7	12.4	12.4
72.5°	4002.0	1505.6	53.5	34.3	26.1	20.6	16.5	15.1	13.7	12.4	11.0
75°	1970.8	535.3	41.2	26.1	20.6	17.8	15.1	13.7	12.4	11.0	11.0
77.5°	531.1	148.2	31.6	20.6	16.5	13.7	13.7	13.7	12.4	9.6	9.6
80°	179.8	61.8	23.3	15.1	13.7	11.0	9.6	12.4	11.0	9.6	8.2
82.5°	98.8	30.2	16.5	12.4	9.6	8.2	8.2	8.2	8.2	6.9	6.9
85°	63.1	16.5	11.0	9.6	9.6	6.9	5.5	5.5	4.1	4.1	4.1
87.5°	28.8	9.6	9.6	8.2	8.2	6.9	4.1	2.7	1.4	1.4	1.4
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)