

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: P639877

Luminaire Tested: GWS-SA5C-760-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639877  
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-SA5C-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

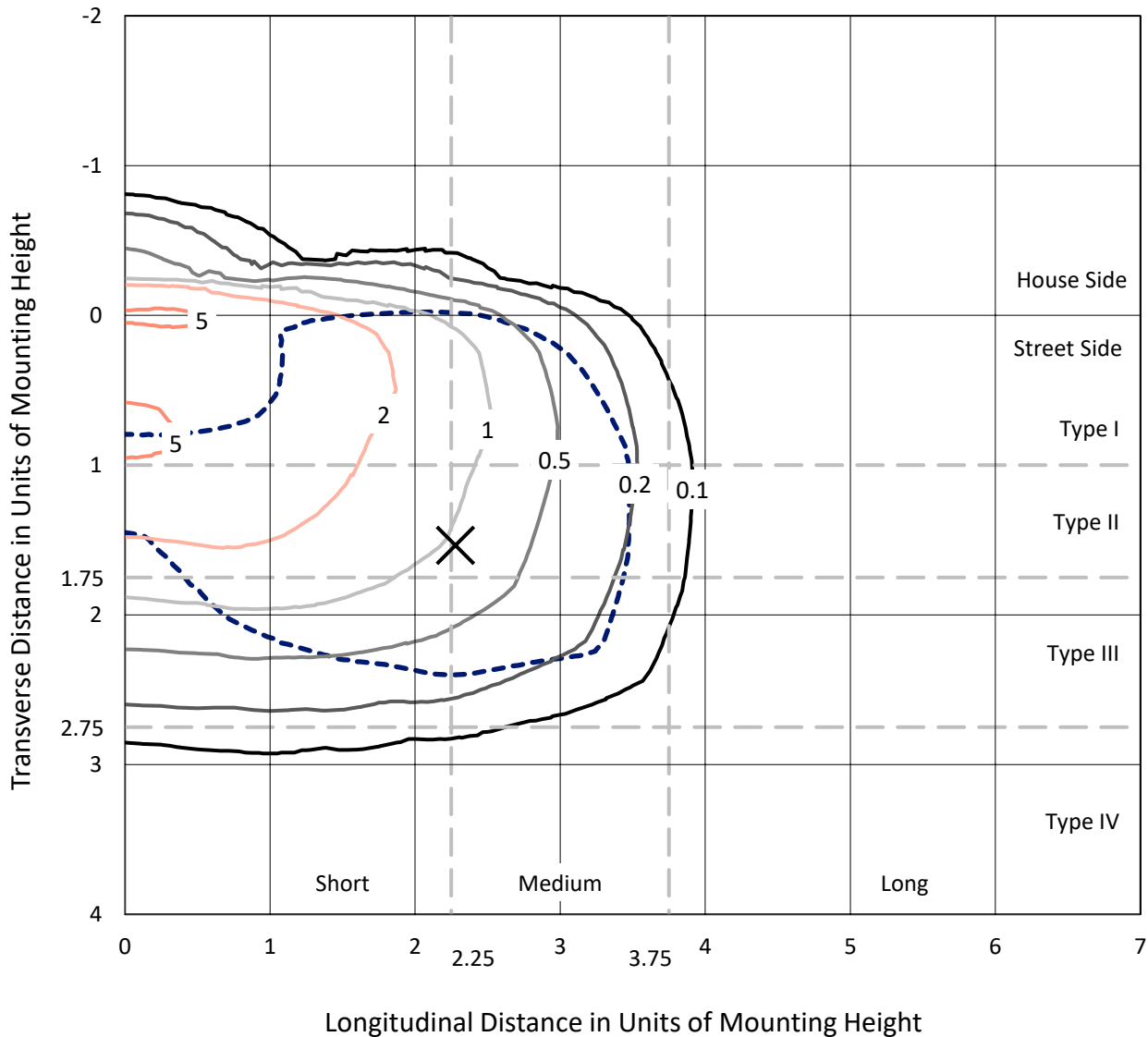
Lumens per Lamp: N/A  
Luminaire Lumens: 18806.8 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

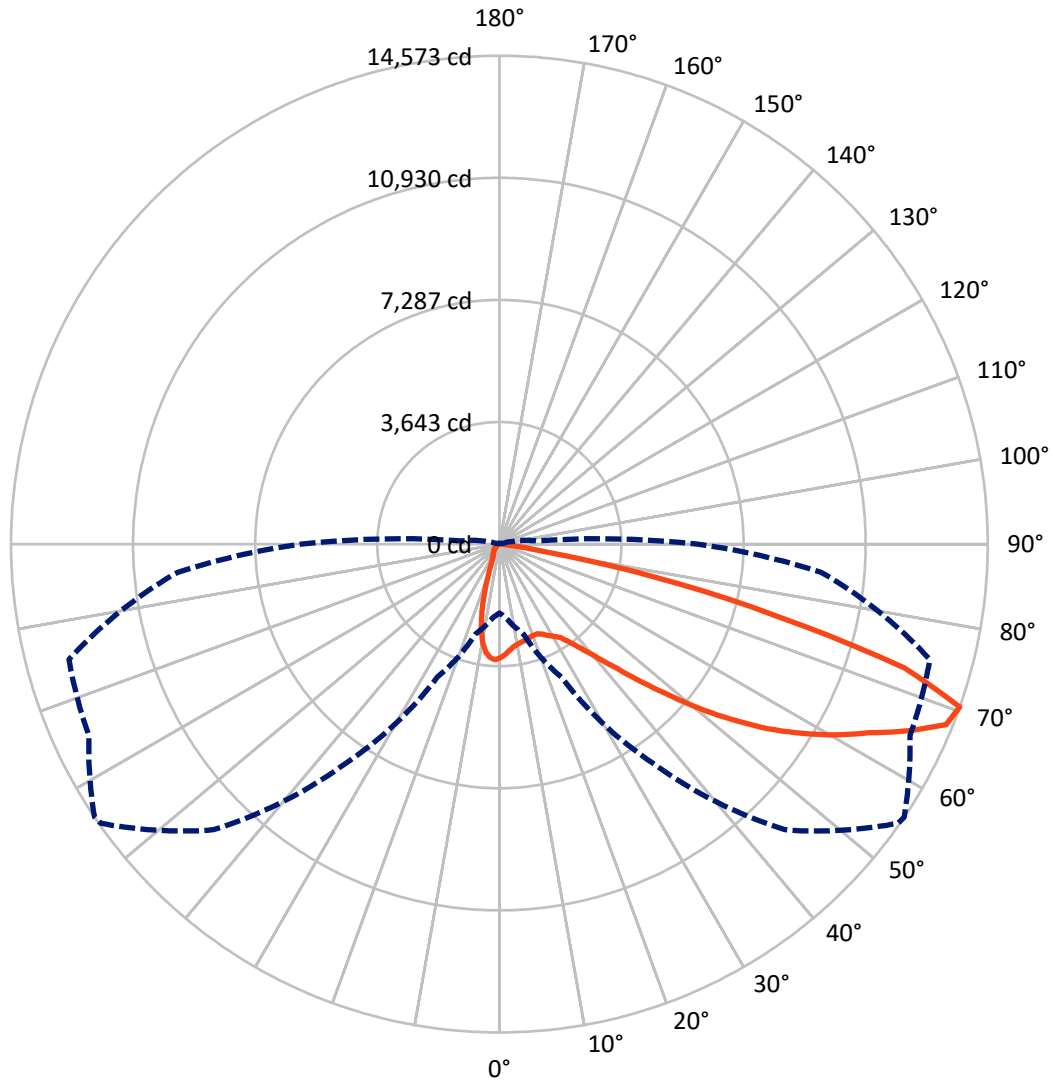
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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
<b>House Side</b>	Lumens	1689.2	0.0	1689.2
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	17117.6	0.0	17117.6
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	18806.8	0.0	18806.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	291.1	1.5
10°-20°	654.8	3.5
20°-30°	1037.3	5.5
30°-40°	1788.7	9.5
40°-50°	3020.6	16.1
50°-60°	4438.2	23.6
60°-70°	5261.8	28.0
70°-80°	2243.8	11.9
80°-90°	70.5	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°	18806.8	100.0
0°-180°	18806.8	100.0

**Coefficient of Utilization**



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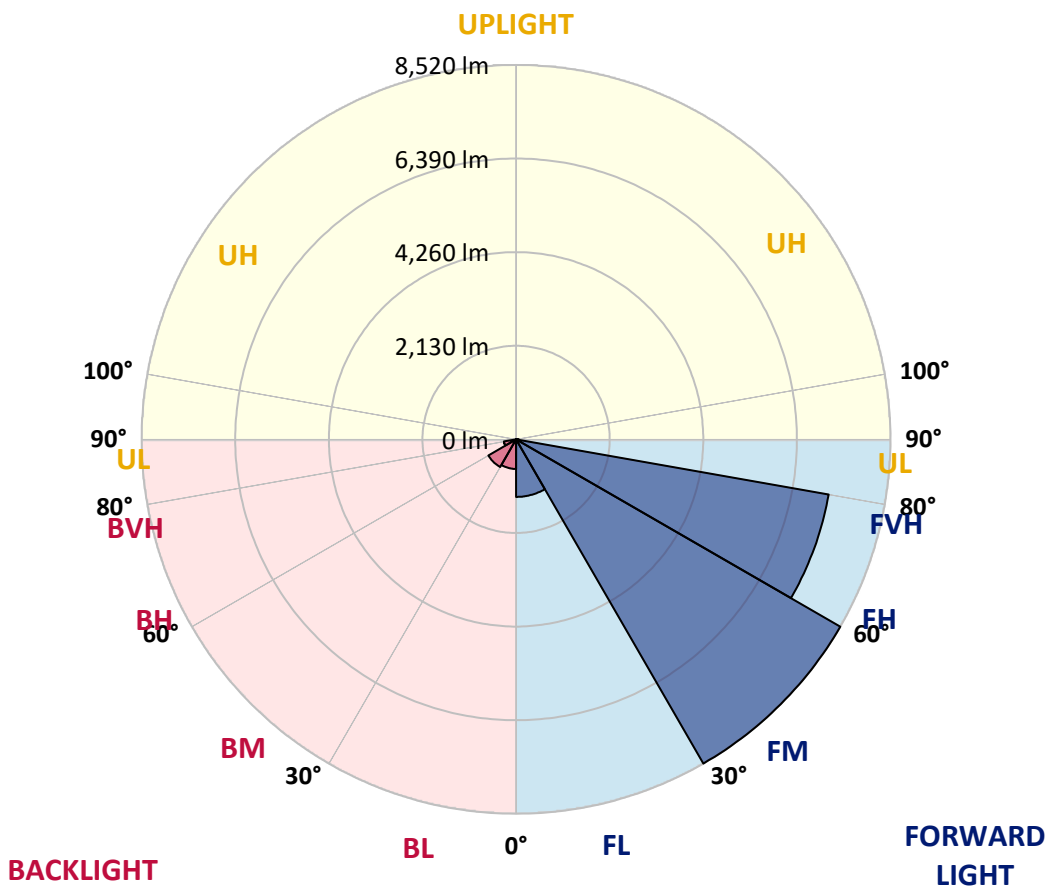
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1310.5	7.0			
FM (30°-60°)	8520.0	45.3			
FH (60°-80°)	7223.8	38.4			G3/7500
FVH (80°-90°)	63.3	0.3			G1/100
BL (0°-30°)	672.7	3.6	B2/1000		
BM (30°-60°)	727.6	3.9	B1/1000		
BH (60°-80°)	281.7	1.5	B1/500		G1/500
BVH (80°-90°)	7.2	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3391.1	3391.1	3391.1	3391.1	3391.1	3391.1	3391.1	3391.1	3391.1	3391.1	3391.1
2.5°	3156.8	3151.7	3155.1	3180.9	3229.2	3251.6	3289.4	3296.3	3327.3	3366.9	3382.4
5°	2951.9	2934.7	2943.3	2979.4	3034.6	3096.6	3167.2	3186.1	3263.6	3351.4	3416.9
7.5°	2764.2	2745.2	2765.9	2822.7	2900.2	2967.4	3072.4	3084.5	3208.5	3363.5	3482.3
10°	2469.7	2474.8	2516.2	2616.1	2734.9	2874.4	3015.6	3032.8	3186.1	3403.1	3587.4
12.5°	2244.1	2232.0	2276.8	2390.4	2557.5	2760.7	2972.6	2994.9	3187.8	3463.4	3721.7
15°	2139.0	2135.6	2154.5	2237.2	2399.1	2638.4	2932.9	2962.2	3210.2	3518.5	3849.2
17.5°	2142.4	2137.3	2135.6	2183.8	2304.3	2547.2	2889.9	2927.8	3229.2	3578.8	3983.5
20°	2292.3	2268.2	2225.1	2202.7	2275.1	2488.6	2860.6	2903.7	3256.7	3642.5	4126.4
22.5°	2605.7	2614.3	2498.9	2378.4	2343.9	2495.5	2857.2	2907.1	3317.0	3742.4	4302.1
25°	3232.6	3218.8	3005.3	2734.9	2547.2	2574.7	2917.4	2977.7	3435.8	3885.3	4467.4
27.5°	4017.9	4030.0	3737.2	3306.7	2914.0	2738.3	3027.7	3087.9	3573.6	3974.9	4577.7
30°	4873.9	4861.8	4548.4	4071.3	3434.1	3010.4	3137.9	3191.3	3642.5	4023.1	4691.3
32.5°	5683.3	5655.8	5345.8	4846.3	4097.2	3439.3	3289.4	3320.4	3733.8	4128.2	4844.6
35°	6373.9	6372.2	6101.8	5569.7	4779.2	3976.6	3549.5	3575.3	3904.3	4295.2	5070.2
37.5°	7086.9	7062.8	6759.7	6274.1	5480.1	4565.6	3947.3	3937.0	4172.9	4541.5	5347.5
40°	7672.5	7657.0	7424.5	6957.8	6208.6	5216.6	4429.6	4398.6	4491.6	4882.5	5733.3
42.5°	8106.5	8108.2	8035.9	7751.7	6980.2	5969.2	5035.8	4987.6	4985.8	5397.4	6243.1
45°	8435.4	8457.8	8566.3	8523.3	7891.2	6845.8	5812.5	5762.6	5678.2	6065.7	6826.9
47.5°	8588.7	8618.0	8945.2	9117.4	8688.6	7715.6	6737.3	6632.3	6466.9	6954.3	7479.6
50°	8573.2	8624.9	9081.3	9604.8	9411.9	8597.3	7744.8	7694.9	7424.5	7894.7	8125.4
52.5°	8221.9	8332.1	9089.9	9901.1	9968.2	9410.2	8786.8	8693.8	8562.9	8876.3	8731.7
55°	7267.8	7402.1	8726.5	9995.8	10402.2	10119.8	9806.3	9730.6	9513.6	9802.9	9260.4
57.5°	6749.4	6864.8	7961.8	9949.3	10770.8	10775.9	10713.9	10651.9	10472.8	10719.1	9880.4
60°	6437.7	6553.1	7553.7	9778.8	11104.9	11468.3	11566.4	11559.6	11301.2	11761.1	10607.2
62.5°	5981.3	6139.7	7128.3	9336.2	11342.6	12150.3	12446.5	12400.0	12112.4	12846.1	11327.1
65°	5059.9	5197.7	6256.8	8605.9	11203.1	12715.2	13400.6	13424.7	13092.3	13867.3	11895.4
67.5°	3547.8	3649.4	4701.7	7073.2	10255.8	12901.2	14377.1	14375.4	13808.8	14390.9	11643.9
70°	2056.3	2195.8	2777.9	4372.7	7979.1	12055.6	14523.5	14573.4	13517.7	13297.3	9635.8
72.5°	795.7	911.1	1574.1	2323.3	4160.9	9234.6	12493.0	12639.4	11313.3	10257.6	6706.3
75°	237.7	265.2	740.6	1236.6	1670.6	4460.6	8457.8	8499.2	7760.3	6398.1	3437.6
77.5°	177.4	196.3	323.8	625.2	585.6	1351.9	4376.2	4779.2	4119.6	2285.4	947.2
80°	120.6	142.9	230.8	304.8	217.0	359.9	1229.7	1350.2	1257.2	513.2	237.7
82.5°	53.4	68.9	163.6	153.3	79.2	103.3	378.9	403.0	260.1	155.0	82.7
85°	5.2	6.9	62.0	67.2	29.3	24.1	79.2	79.2	56.8	53.4	34.4
87.5°	0.0	0.0	1.7	3.4	3.4	5.2	6.9	8.6	10.3	13.8	17.2
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°	3391.1	3391.1	3391.1	3391.1	3391.1	3391.1	3391.1	3391.1	3391.1	3391.1	3391.1
2.5°	3422.1	3401.4	3427.2	3447.9	3453.1	3415.2	3392.8	3360.1	3353.2	3354.9	3346.3
5°	3468.6	3458.2	3477.2	3454.8	3396.2	3286.0	3191.3	3086.2	3029.4	2996.7	2993.2
7.5°	3554.7	3549.5	3528.8	3427.2	3244.7	3000.1	2764.2	2533.4	2390.4	2338.8	2330.2
10°	3682.1	3671.8	3587.4	3346.3	2957.1	2486.9	2090.8	1760.1	1558.6	1500.1	1427.7
12.5°	3828.5	3807.8	3623.6	3172.3	2523.1	1872.1	1377.8	1007.5	833.6	781.9	781.9
15°	3969.7	3924.9	3602.9	2884.7	1989.2	1217.6	769.8	582.1	528.7	514.9	514.9
17.5°	4114.4	4028.3	3521.9	2492.1	1374.3	719.9	513.2	477.1	470.2	471.9	473.6
20°	4250.4	4116.1	3379.0	2020.2	876.6	502.9	459.8	451.2	447.8	451.2	449.5
22.5°	4398.6	4197.1	3162.0	1505.2	570.1	452.9	437.4	430.6	427.1	432.3	432.3
25°	4544.9	4255.6	2874.4	1012.7	452.9	421.9	413.3	406.4	403.0	404.7	404.7
27.5°	4620.7	4233.2	2497.2	645.8	406.4	390.9	382.3	373.7	368.6	366.8	368.6
30°	4672.4	4164.3	2035.7	459.8	368.6	349.6	341.0	334.1	320.3	311.7	315.2
32.5°	4753.3	4095.4	1534.5	385.8	337.6	308.3	294.5	277.3	258.3	249.7	249.7
35°	4849.8	4000.7	1076.4	347.9	304.8	273.8	248.0	218.7	196.3	189.4	189.4
37.5°	4977.2	3911.2	716.4	322.1	277.3	244.6	208.4	173.9	149.8	146.4	144.7
40°	5168.4	3835.4	504.6	303.1	253.2	213.6	170.5	134.3	117.1	111.9	111.9
42.5°	5416.4	3757.9	399.6	284.2	232.5	184.3	136.1	106.8	93.0	89.6	87.8
45°	5722.9	3666.6	347.9	266.9	211.8	153.3	108.5	89.6	79.2	75.8	75.8
47.5°	6055.3	3542.6	323.8	244.6	187.7	124.0	91.3	77.5	72.3	70.6	68.9
50°	6382.6	3375.6	303.1	223.9	160.2	101.6	79.2	70.6	67.2	65.4	65.4
52.5°	6668.4	3180.9	277.3	199.8	130.9	87.8	70.6	65.4	62.0	58.6	56.8
55°	6913.0	2969.1	244.6	172.2	106.8	77.5	65.4	60.3	56.8	53.4	51.7
57.5°	7228.2	2848.6	196.3	139.5	87.8	68.9	60.3	55.1	51.7	46.5	46.5
60°	7577.8	2760.7	146.4	110.2	75.8	63.7	55.1	49.9	46.5	41.3	41.3
62.5°	7858.5	2629.8	115.4	89.6	65.4	56.8	49.9	44.8	41.3	36.2	36.2
65°	7965.3	2359.4	94.7	70.6	53.4	49.9	44.8	41.3	36.2	31.0	31.0
67.5°	7483.1	1818.7	79.2	56.8	44.8	43.1	39.6	37.9	31.0	27.6	25.8
70°	5926.2	1109.1	65.4	46.5	37.9	36.2	36.2	32.7	27.6	25.8	24.1
72.5°	4061.0	571.8	53.4	37.9	32.7	32.7	31.0	29.3	25.8	24.1	24.1
75°	2109.7	191.2	41.3	29.3	25.8	27.6	27.6	25.8	24.1	24.1	22.4
77.5°	604.5	86.1	31.0	22.4	20.7	20.7	22.4	22.4	22.4	20.7	20.7
80°	156.7	49.9	22.4	17.2	17.2	17.2	17.2	18.9	20.7	18.9	18.9
82.5°	63.7	27.6	15.5	13.8	13.8	13.8	13.8	15.5	17.2	17.2	17.2
85°	39.6	13.8	12.1	12.1	12.1	10.3	10.3	12.1	12.1	13.8	13.8
87.5°	24.1	10.3	10.3	10.3	10.3	8.6	8.6	8.6	8.6	8.6	8.6
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)