

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: P636491

Luminaire Tested: GWS-SA3F-830-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-830-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15397.1 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

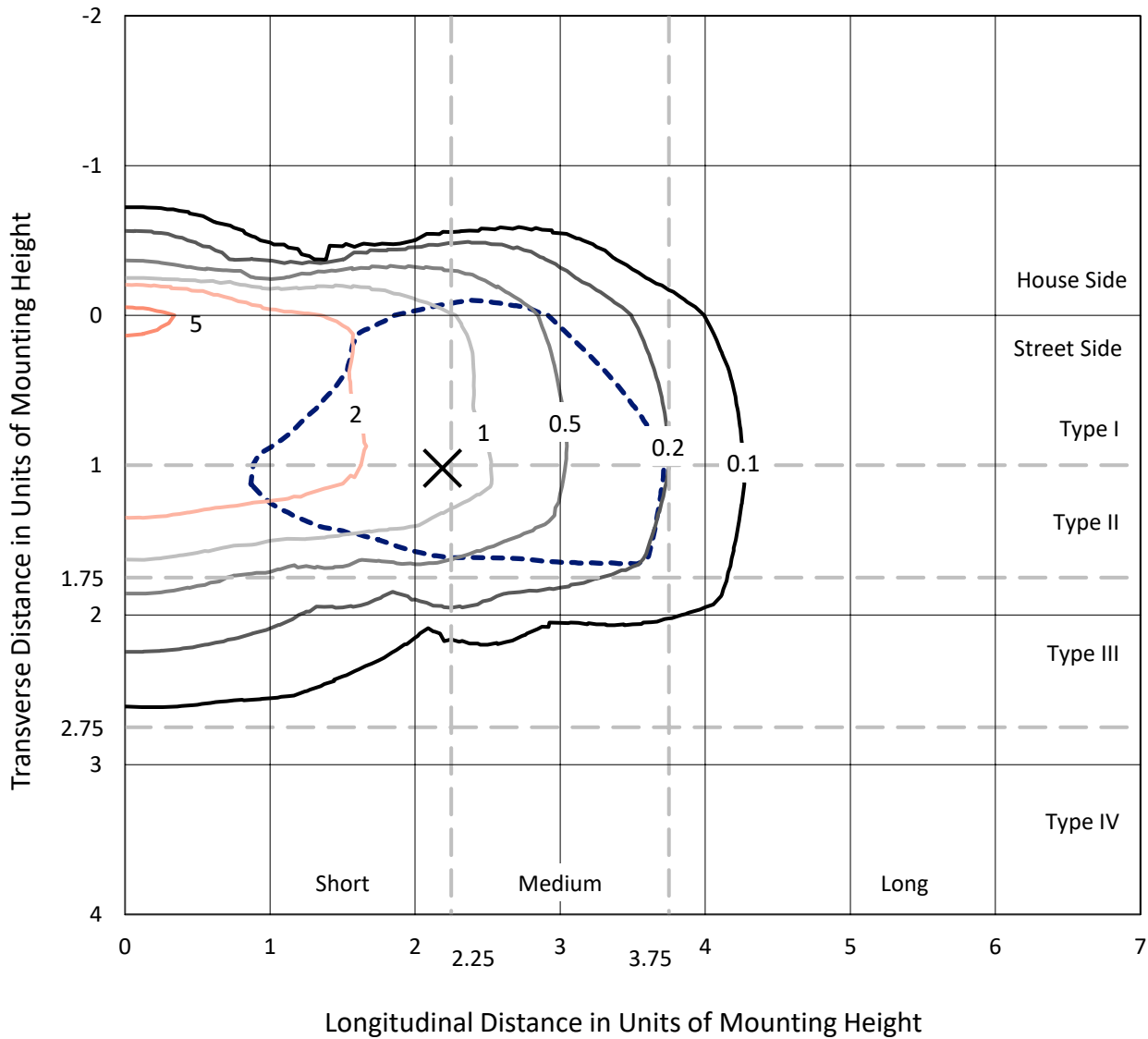
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

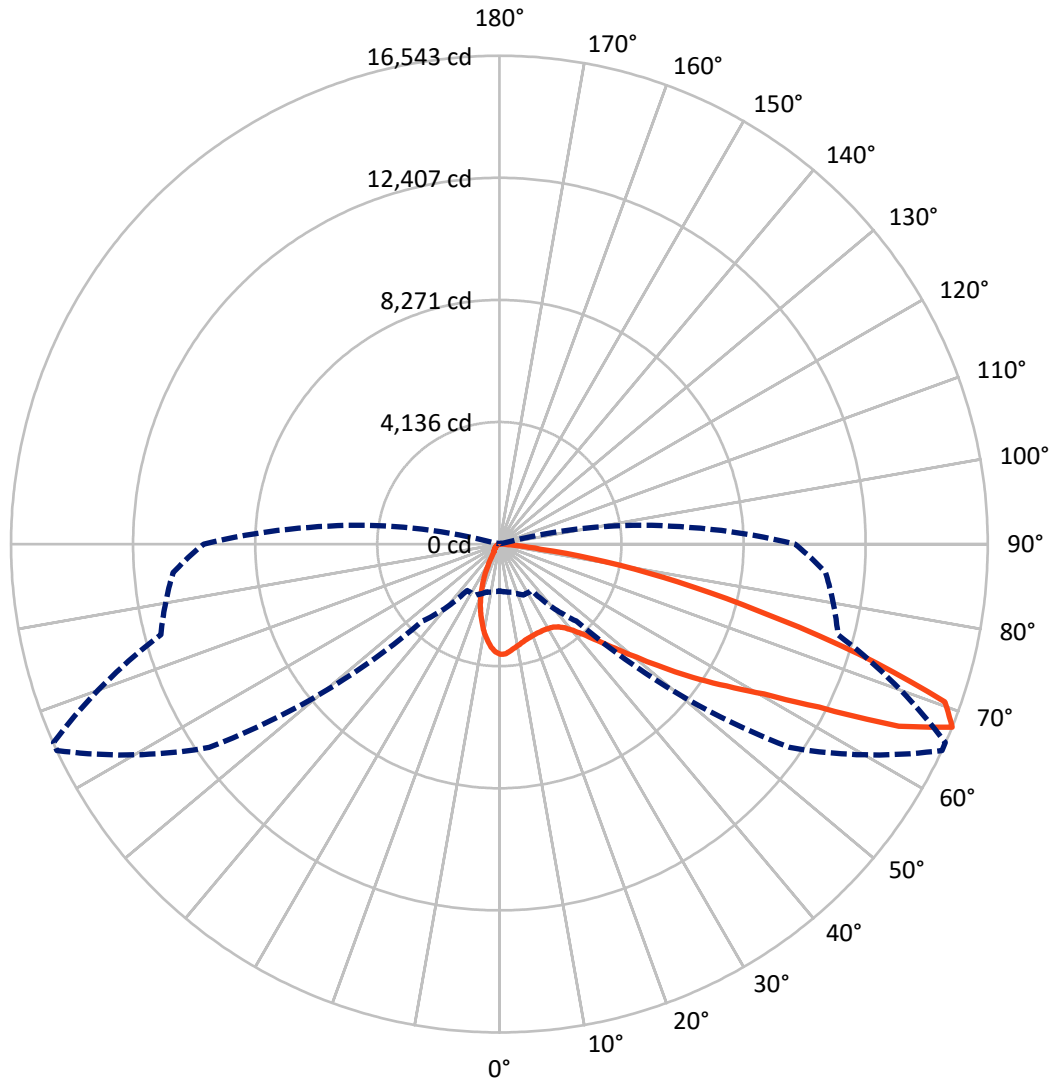
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1922.6	0.0	1922.6
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	13474.5	0.0	13474.5
	% Fixture	87.5	0.0	87.5
Total	Lumens	15397.1	0.0	15397.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.2	2.0
10°-20°	697.2	4.5
20°-30°	996.3	6.5
30°-40°	1449.4	9.4
40°-50°	2270.1	14.7
50°-60°	3541.4	23.0
60°-70°	3890.0	25.3
70°-80°	2070.2	13.4
80°-90°	172.4	1.1
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°	15397.1	100.0
0°-180°	15397.1	100.0

Coefficient of Utilization



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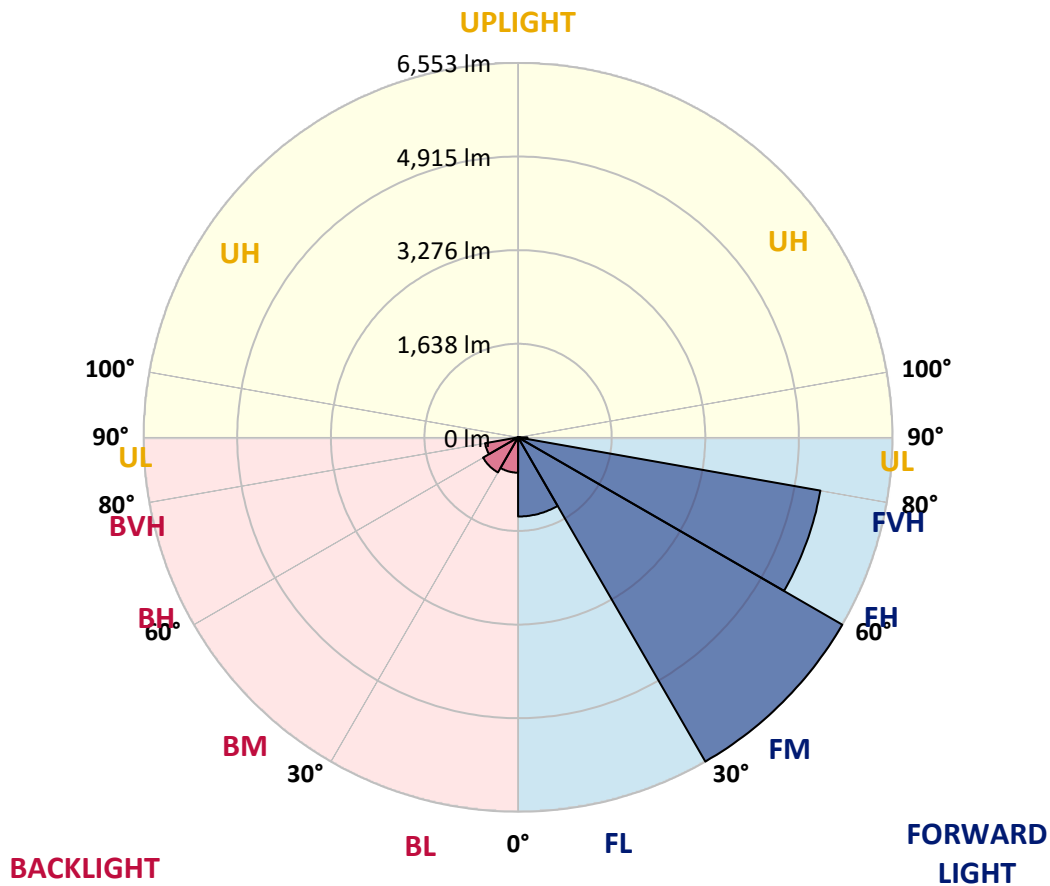
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1385.6	9.0			
FM (30°-60°)	6552.7	42.6			
FH (60°-80°)	5373.0	34.9			G3/7500
FVH (80°-90°)	163.1	1.1			G2/225
BL (0°-30°)	618.0	4.0	B2/1000		
BM (30°-60°)	708.2	4.6	B1/1000		
BH (60°-80°)	587.2	3.8	B2/1000		G2/1000
BVH (80°-90°)	9.2	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3
2.5°	3604.8	3615.9	3600.6	3638.2	3645.2	3686.9	3710.6	3727.3	3725.9	3746.8	3746.8
5°	3393.2	3404.3	3395.9	3436.3	3468.3	3533.8	3588.1	3650.7	3653.5	3717.6	3741.2
7.5°	3213.5	3214.9	3214.9	3265.1	3306.8	3387.6	3468.3	3564.4	3575.6	3674.4	3737.1
10°	3066.0	3070.1	3071.5	3128.6	3174.6	3272.0	3375.1	3490.6	3503.2	3636.8	3734.3
12.5°	2964.3	2965.7	2971.3	3031.1	3081.3	3182.9	3287.3	3419.6	3436.3	3593.7	3721.8
15°	2915.6	2912.8	2915.6	2965.7	3015.8	3113.3	3220.5	3362.5	3380.6	3557.5	3723.1
17.5°	2912.8	2908.6	2905.8	2943.4	2975.5	3061.8	3170.4	3324.9	3344.4	3540.7	3738.5
20°	2953.2	2950.4	2936.5	2953.2	2960.1	3031.1	3138.4	3295.7	3315.2	3538.0	3771.9
22.5°	3059.0	3052.0	3031.1	3015.8	2978.2	3020.0	3116.1	3274.8	3297.1	3544.9	3815.0
25°	3216.3	3213.5	3187.1	3149.5	3053.4	3036.7	3117.5	3274.8	3295.7	3553.3	3861.0
27.5°	3453.0	3436.3	3402.9	3337.5	3199.6	3102.2	3145.3	3283.2	3304.0	3564.4	3898.6
30°	3693.9	3692.5	3681.4	3614.5	3409.9	3227.5	3203.8	3305.4	3324.9	3574.2	3933.4
32.5°	3943.1	3947.3	3975.2	3923.6	3699.5	3414.0	3309.6	3351.4	3365.3	3593.7	3964.0
35°	4179.8	4188.2	4262.0	4280.1	4051.7	3696.7	3482.3	3443.3	3444.7	3636.8	4004.4
37.5°	4406.8	4434.6	4553.0	4640.7	4490.3	4039.2	3731.5	3599.2	3588.1	3723.1	4065.7
40°	4664.4	4717.3	4866.3	5015.2	4967.9	4491.7	4071.2	3838.7	3815.0	3881.9	4175.7
42.5°	4949.8	5006.9	5204.6	5413.5	5435.7	5038.9	4495.9	4188.2	4147.8	4149.2	4381.7
45°	5256.1	5332.7	5562.4	5863.2	5998.2	5648.8	5019.4	4660.2	4619.8	4559.9	4713.1
47.5°	5658.5	5725.3	5946.7	6293.4	6552.4	6303.2	5705.8	5267.3	5193.5	5105.7	5228.3
50°	6005.2	6063.7	6254.4	6688.8	7227.7	7146.9	6484.2	6026.1	5955.1	5806.1	5907.7
52.5°	6081.8	6127.7	6303.2	6791.9	7744.2	8212.1	7437.9	6943.6	6893.5	6617.8	6656.8
55°	5737.9	5807.5	5964.8	6507.8	7879.3	9253.6	8675.7	7978.2	7873.7	7433.8	7503.4
57.5°	4869.0	4993.0	5140.6	5846.5	7513.1	9807.7	10405.0	9073.9	8979.3	8219.0	8220.4
60°	3568.6	3668.8	3767.7	4413.7	6644.3	9770.1	11974.2	10304.8	10132.1	8860.9	8837.2
62.5°	2595.3	2646.9	2645.5	2875.2	4562.7	9126.9	12798.5	12159.4	11757.0	9547.3	9412.3
65°	2041.2	2039.8	2099.7	2174.9	2548.0	7045.3	12900.1	14867.5	14433.1	10467.7	10186.4
67.5°	1588.7	1619.3	1679.2	1900.6	1914.5	3686.9	12006.2	16542.5	16534.2	11872.6	11092.8
70°	1225.3	1267.0	1352.0	1675.0	1768.3	2063.5	8983.4	16012.0	16147.1	12500.5	10451.0
72.5°	786.7	783.9	909.2	1353.4	1698.7	1719.6	4967.9	12719.1	12872.3	11322.6	8450.2
75°	440.0	442.8	513.8	828.4	1583.1	1617.9	2460.3	9069.8	9190.9	8827.5	6492.5
77.5°	172.7	178.2	240.9	435.8	1044.3	1445.3	1462.0	6184.8	6202.9	5470.5	3982.1
80°	69.6	73.8	122.5	270.1	636.3	973.3	1044.3	3643.8	3570.0	2117.8	1158.4
82.5°	20.9	22.3	48.7	153.2	332.8	692.0	704.5	1397.9	1319.9	455.3	295.2
85°	1.4	1.4	11.1	47.3	118.3	174.0	469.2	455.3	403.8	114.2	130.9
87.5°	0.0	0.0	1.4	1.4	2.8	5.6	50.1	83.5	84.9	20.9	58.5
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°	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3
2.5°	3746.8	3696.7	3692.5	3653.5	3614.5	3565.8	3508.7	3467.0	3437.7	3386.2	3376.4
5°	3741.2	3674.4	3611.8	3500.4	3376.4	3242.8	3125.8	3017.2	2949.0	2903.0	2883.6
7.5°	3730.1	3645.2	3500.4	3290.1	3082.7	2848.7	2666.3	2499.3	2385.1	2318.3	2289.0
10°	3721.8	3607.6	3372.3	3053.4	2731.8	2408.8	2131.7	1883.8	1746.0	1637.4	1619.3
12.5°	3705.0	3553.3	3208.0	2776.3	2361.4	1932.6	1578.9	1275.4	1065.1	970.5	937.1
15°	3688.3	3496.2	3043.7	2484.0	1957.6	1428.6	999.7	707.3	562.5	518.0	515.2
17.5°	3685.5	3444.7	2865.5	2206.9	1534.4	935.7	569.5	458.1	427.5	416.3	416.3
20°	3693.9	3401.5	2690.0	1888.0	1118.1	569.5	424.7	396.8	378.7	369.0	369.0
22.5°	3702.3	3357.0	2521.5	1566.4	742.1	416.3	374.5	350.9	330.0	318.8	313.3
25°	3707.8	3308.2	2335.0	1243.4	484.5	362.0	328.6	298.0	272.9	259.0	259.0
27.5°	3706.4	3249.7	2147.0	927.3	375.9	321.6	281.3	249.2	224.2	208.9	210.2
30°	3695.3	3185.7	1952.1	647.4	328.6	281.3	240.9	207.5	182.4	169.9	168.5
32.5°	3686.9	3117.5	1726.5	455.3	295.2	246.4	204.7	172.7	151.8	142.0	140.6
35°	3677.2	3050.6	1512.1	346.7	265.9	213.0	172.7	146.2	129.5	121.1	121.1
37.5°	3680.0	2981.0	1279.6	298.0	236.7	185.2	147.6	125.3	111.4	103.0	101.6
40°	3723.1	2939.3	1051.2	270.1	210.2	160.1	128.1	108.6	94.7	86.3	84.9
42.5°	3830.4	2940.6	832.6	249.2	186.6	136.5	111.4	93.3	80.8	71.0	69.6
45°	4044.8	2999.1	639.1	227.0	161.5	118.3	96.1	79.4	66.8	58.5	57.1
47.5°	4395.6	3173.2	484.5	207.5	140.6	103.0	82.1	66.8	55.7	48.7	47.3
50°	4954.0	3487.8	381.5	183.8	118.3	89.1	69.6	55.7	45.9	39.0	37.6
52.5°	5625.1	3959.8	327.2	162.9	101.6	78.0	59.9	45.9	37.6	32.0	30.6
55°	6396.5	4523.7	302.1	142.0	86.3	66.8	48.7	37.6	30.6	26.5	23.7
57.5°	7103.8	5032.0	300.7	121.1	73.8	57.1	40.4	32.0	26.5	20.9	19.5
60°	7793.0	5456.6	282.6	100.2	64.0	47.3	34.8	26.5	22.3	18.1	16.7
62.5°	8418.1	5801.9	236.7	80.8	54.3	39.0	29.2	23.7	19.5	15.3	15.3
65°	9203.4	6241.9	181.0	65.4	44.6	32.0	25.1	20.9	18.1	13.9	13.9
67.5°	10015.2	6474.4	129.5	54.3	36.2	27.8	22.3	19.5	15.3	12.5	12.5
70°	9071.2	5470.5	93.3	44.6	30.6	23.7	19.5	18.1	15.3	12.5	11.1
72.5°	7084.3	3944.5	69.6	34.8	26.5	22.3	18.1	16.7	13.9	11.1	11.1
75°	5253.3	2300.2	52.9	27.8	20.9	18.1	18.1	16.7	13.9	11.1	9.7
77.5°	2855.7	802.0	40.4	22.3	16.7	13.9	15.3	15.3	12.5	9.7	8.4
80°	756.0	220.0	27.8	16.7	13.9	11.1	11.1	13.9	11.1	8.4	8.4
82.5°	220.0	64.0	19.5	13.9	11.1	9.7	9.7	9.7	8.4	7.0	5.6
85°	107.2	23.7	13.9	11.1	9.7	8.4	7.0	7.0	5.6	4.2	4.2
87.5°	47.3	9.7	11.1	9.7	9.7	7.0	5.6	4.2	4.2	2.8	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)