

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: P633801

Luminaire Tested: GWS-SA2F-740-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633801
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-SA2F-740-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15895.2 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

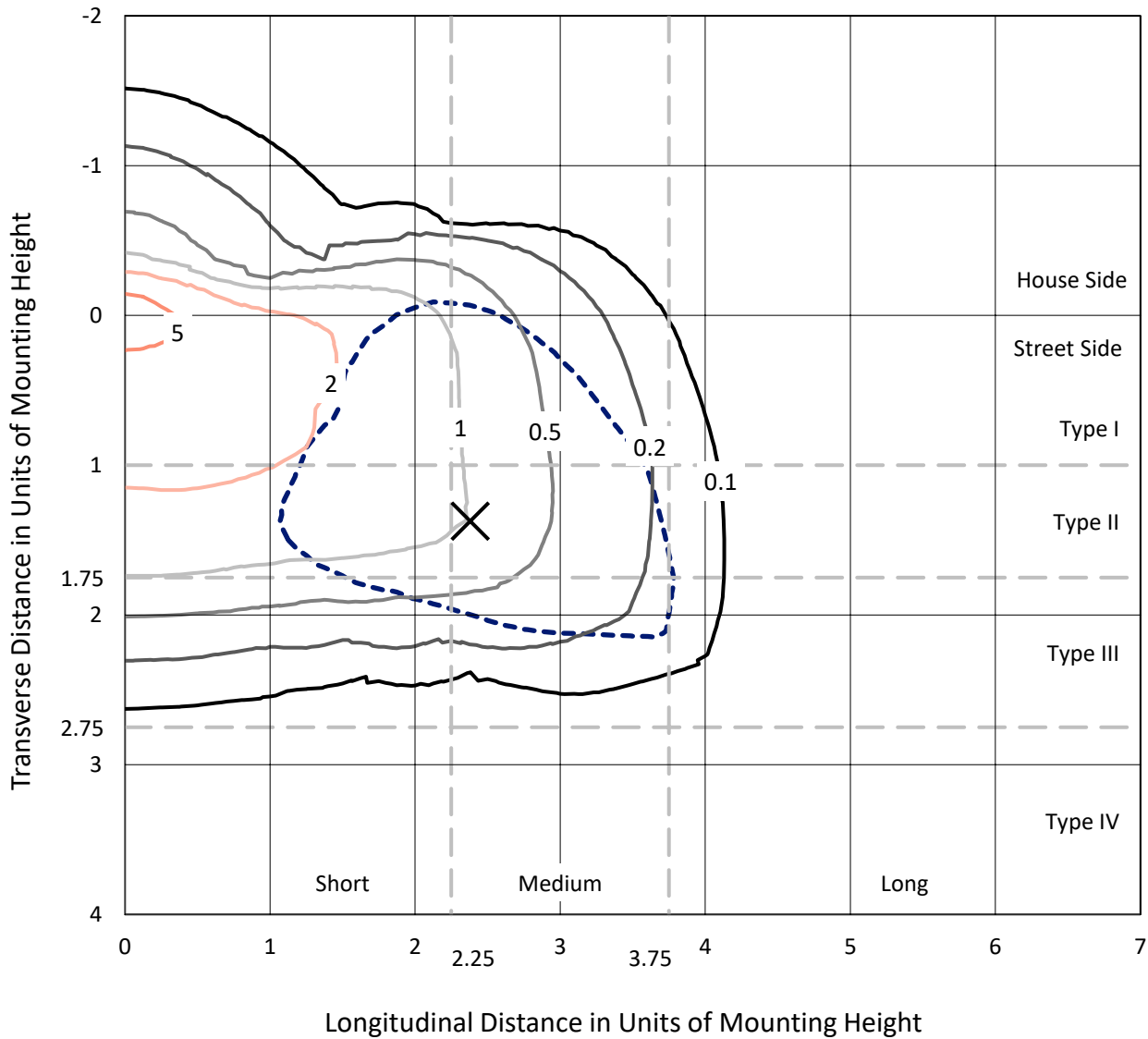
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

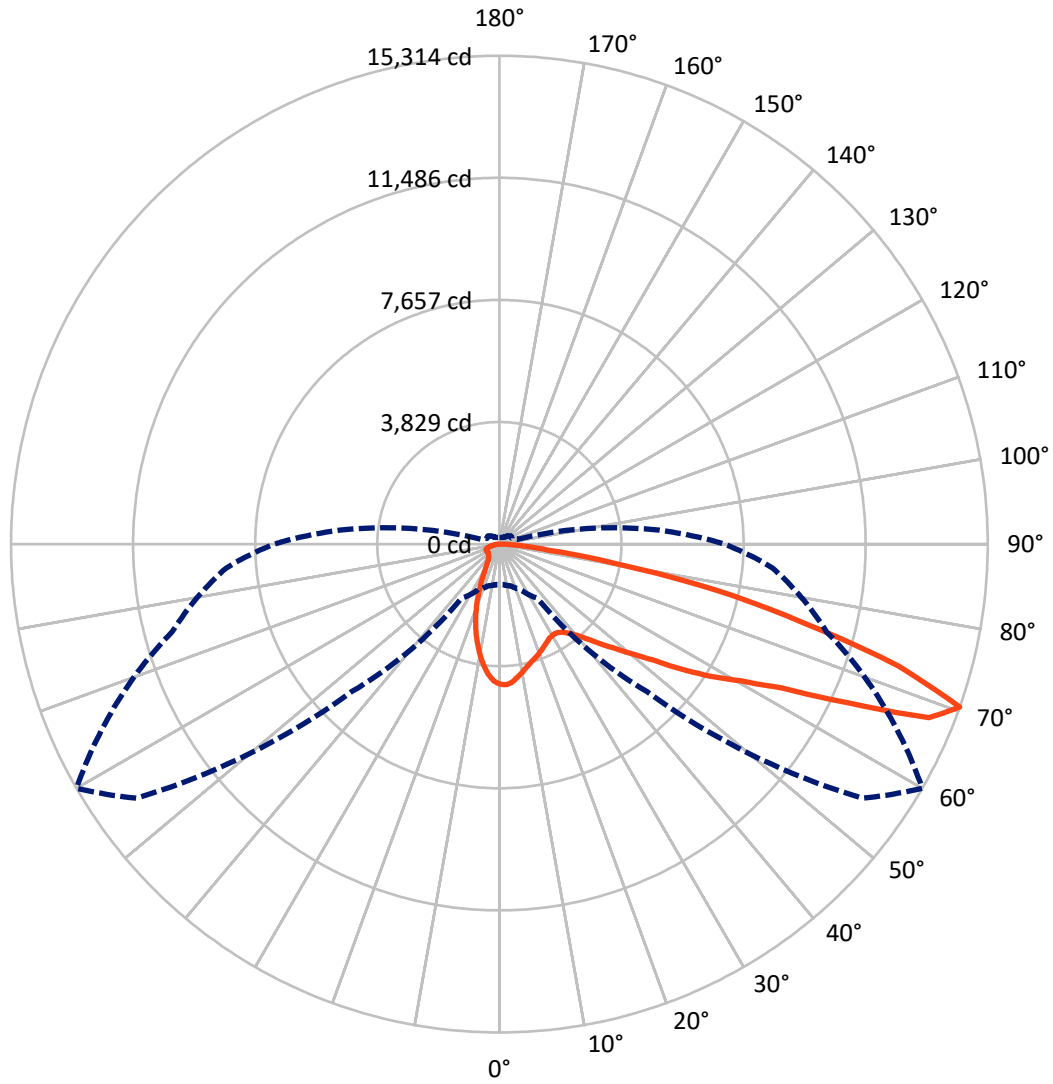
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	2718.4	0.0	2718.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	13176.7	0.0	13176.7
	% Fixture	82.9	0.0	82.9
Total	Lumens	15895.2	0.0	15895.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.1	2.4
10°-20°	849.4	5.3
20°-30°	1087.8	6.8
30°-40°	1429.6	9.0
40°-50°	2074.1	13.0
50°-60°	3236.0	20.4
60°-70°	4236.6	26.7
70°-80°	2342.7	14.7
80°-90°	260.0	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°	15895.2	100.0
0°-180°	15895.2	100.0

Coefficient of Utilization



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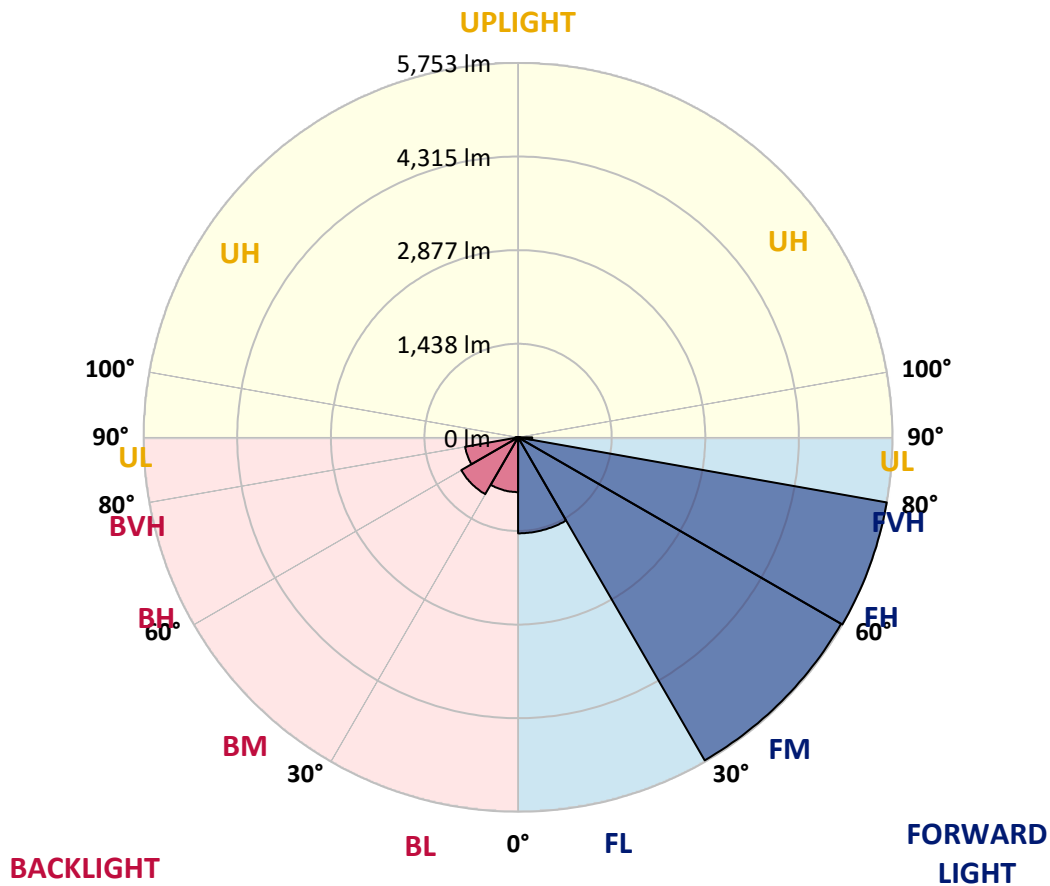
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1475.2	9.3			
FM (30°-60°)	5731.7	36.1			
FH (60°-80°)	5753.2	36.2			G3/7500
FVH (80°-90°)	216.6	1.4			G2/225
BL (0°-30°)	841.1	5.3	B2/1000		
BM (30°-60°)	1007.9	6.3	B2/2500		
BH (60°-80°)	826.1	5.2	B2/1000		G2/1000
BVH (80°-90°)	43.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 </tr			

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°	4398.4	4398.4	4398.4	4398.4	4398.4	4398.4	4398.4	4398.4	4398.4	4398.4	4398.4
2.5°	4336.8	4341.4	4354.2	4372.8	4391.4	4400.7	4424.0	4417.0	4412.4	4403.1	4391.4
5°	4144.9	4154.2	4165.8	4201.9	4242.6	4275.1	4327.5	4333.3	4335.6	4340.3	4321.7
7.5°	3900.7	3903.0	3930.9	3978.6	4032.1	4087.9	4175.1	4199.5	4220.5	4243.7	4228.6
10°	3630.8	3636.7	3657.6	3726.2	3818.1	3900.7	4018.1	4058.8	4103.0	4154.2	4133.2
12.5°	3409.9	3411.0	3444.8	3518.0	3618.0	3729.7	3876.2	3925.1	3983.2	4063.5	4044.9
15°	3234.3	3234.3	3265.7	3328.5	3443.6	3575.0	3749.5	3812.3	3891.3	3999.5	3966.9
17.5°	3094.7	3095.9	3115.6	3181.9	3284.3	3429.6	3636.7	3721.6	3808.8	3951.8	3903.0
20°	3021.4	3015.6	3019.1	3059.8	3147.0	3287.8	3523.8	3622.7	3740.2	3919.3	3844.8
22.5°	3017.9	3007.5	2992.4	2995.8	3047.0	3163.3	3402.9	3522.7	3670.4	3892.5	3785.5
25°	3077.3	3065.6	3038.9	3008.6	3004.0	3073.8	3288.9	3425.0	3598.3	3880.9	3728.5
27.5°	3177.3	3169.1	3134.2	3088.9	3041.2	3038.9	3202.9	3344.7	3545.9	3892.5	3687.8
30°	3309.9	3295.9	3273.8	3215.7	3143.5	3069.1	3169.1	3301.7	3511.1	3929.7	3670.4
32.5°	3459.9	3451.7	3430.8	3372.7	3295.9	3177.3	3195.9	3311.0	3511.1	3994.9	3673.9
35°	3619.2	3618.0	3618.0	3579.7	3494.8	3347.1	3301.7	3390.1	3564.5	4099.5	3711.1
37.5°	3773.9	3772.7	3809.9	3823.9	3727.4	3568.0	3482.0	3548.3	3682.0	4254.2	3803.0
40°	3899.5	3904.1	3985.5	4055.3	4001.8	3854.1	3733.2	3766.9	3872.7	4474.0	3963.5
42.5°	4026.3	4039.0	4161.2	4284.4	4305.4	4177.4	4055.3	4075.1	4146.0	4764.7	4203.0
45°	4164.6	4170.5	4341.4	4513.5	4614.7	4539.1	4439.1	4465.9	4482.1	5124.1	4560.1
47.5°	4298.4	4313.5	4534.5	4770.6	4962.5	4955.5	4899.7	4891.5	4895.0	5561.4	4982.2
50°	4481.0	4503.1	4762.4	5047.4	5328.8	5457.9	5474.2	5412.5	5386.9	6047.5	5507.9
52.5°	4827.5	4827.5	5060.1	5340.4	5718.4	6038.2	6147.5	6046.4	5964.9	6561.6	6066.1
55°	5261.3	5279.9	5464.9	5691.6	6170.8	6648.8	7018.6	6907.0	6676.7	7121.0	6651.1
57.5°	5454.4	5477.7	5770.7	6123.1	6762.8	7343.1	7856.0	7816.4	7480.3	7702.4	7258.2
60°	5105.5	5154.3	5557.9	6148.7	7298.9	8463.0	8824.7	8709.6	8229.3	8313.0	7916.4
62.5°	4258.8	4312.3	4760.1	5584.7	7224.5	9673.7	10351.7	9927.2	9164.3	9084.1	8793.3
65°	2541.1	2538.8	3077.3	4170.5	6306.9	10009.8	12768.4	11976.4	10608.7	10142.4	9695.8
67.5°	1615.4	1611.9	1724.7	2209.7	4197.2	9186.4	14322.2	14528.0	12570.7	10920.4	9770.2
70°	1274.6	1273.5	1354.9	1575.8	2075.9	6537.1	13889.5	15314.2	13755.8	10623.9	8602.6
72.5°	929.2	931.6	1057.2	1320.0	1601.4	3281.9	11247.2	13103.3	12652.1	9378.3	6983.7
75°	667.6	671.0	746.6	1010.6	1477.0	1794.5	7479.2	9852.8	9626.0	7517.5	4804.3
77.5°	424.5	429.1	495.4	708.3	1193.2	1449.1	4534.5	6955.8	6404.6	4235.6	1708.4
80°	259.3	274.5	330.3	528.0	953.6	1087.4	2266.7	3664.6	3207.5	1161.8	574.5
82.5°	133.7	145.4	198.9	326.8	657.1	954.8	1282.8	1539.8	993.2	486.1	305.9
85°	41.9	48.8	69.8	132.6	312.8	592.0	849.0	765.2	455.9	229.1	141.9
87.5°	10.5	10.5	11.6	11.6	12.8	26.7	164.0	173.3	121.0	72.1	58.1
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°	4398.4	4398.4	4398.4	4398.4	4398.4	4398.4	4398.4	4398.4	4398.4	4398.4	4398.4
2.5°	4368.2	4340.3	4328.6	4327.5	4298.4	4256.5	4228.6	4208.8	4197.2	4194.9	4194.9
5°	4290.2	4254.2	4206.5	4170.5	4092.5	4013.5	3947.2	3910.0	3866.9	3861.1	3859.9
7.5°	4186.7	4134.4	4043.7	3942.5	3806.4	3675.0	3563.4	3487.8	3412.2	3398.2	3393.6
10°	4075.1	4004.2	3849.5	3671.5	3468.0	3271.5	3100.5	2966.8	2878.4	2815.6	2804.0
12.5°	3964.6	3870.4	3643.6	3378.5	3099.4	2830.7	2573.7	2355.0	2196.9	2105.0	2088.7
15°	3861.1	3729.7	3419.2	3080.7	2717.9	2350.4	1986.4	1702.6	1480.5	1401.4	1382.8
17.5°	3766.9	3602.9	3201.7	2772.6	2320.2	1839.8	1425.8	1173.5	1043.2	1003.7	994.4
20°	3672.7	3472.7	2980.7	2448.1	1898.0	1359.5	1042.0	923.4	874.6	859.4	854.8
22.5°	3571.5	3329.6	2740.0	2128.3	1471.2	1017.6	852.5	800.1	785.0	786.2	785.0
25°	3470.3	3184.3	2487.6	1780.5	1095.5	825.7	744.3	724.5	728.0	738.5	740.8
27.5°	3386.6	3055.2	2239.9	1399.1	856.0	710.6	672.2	671.0	683.8	697.8	700.1
30°	3326.1	2940.0	1995.7	1075.8	704.8	631.5	616.4	623.4	638.5	648.9	652.4
32.5°	3283.1	2841.2	1735.2	845.5	617.5	575.7	568.7	575.7	585.0	595.4	597.8
35°	3268.0	2769.1	1479.3	689.6	558.2	535.0	530.3	533.8	538.5	544.3	546.6
37.5°	3301.7	2733.0	1211.8	600.1	522.2	508.2	501.2	498.9	500.1	502.4	503.6
40°	3401.7	2749.3	993.2	547.8	498.9	486.1	474.5	469.8	468.7	471.0	469.8
42.5°	3573.9	2817.9	835.0	517.5	480.3	461.7	448.9	444.3	444.3	450.1	450.1
45°	3826.2	2952.8	721.1	495.4	464.0	440.8	426.8	424.5	429.1	438.4	439.6
47.5°	4196.0	3150.5	652.4	479.1	448.9	422.2	408.2	407.0	416.3	431.5	432.6
50°	4634.5	3435.5	615.2	467.5	438.4	407.0	393.1	394.3	404.7	421.0	424.5
52.5°	5162.5	3823.9	617.5	462.9	432.6	397.7	383.8	381.5	391.9	408.2	411.7
55°	5707.9	4296.1	662.9	464.0	424.5	393.1	374.5	366.3	375.6	387.3	388.4
57.5°	6308.0	4828.7	775.7	461.7	414.0	388.4	366.3	347.7	353.5	360.5	364.0
60°	6984.9	5455.6	1018.8	466.4	409.4	378.0	350.1	325.6	324.5	329.1	330.3
62.5°	7889.7	6308.0	1292.1	474.5	419.8	365.2	325.6	300.1	295.4	297.7	298.9
65°	8581.7	6715.1	1206.0	467.5	441.9	355.9	302.4	275.6	266.3	264.0	264.0
67.5°	8300.2	6176.6	839.7	448.9	452.4	357.0	283.8	250.0	238.4	232.6	231.4
70°	7062.8	5017.1	583.8	430.3	440.8	354.7	264.0	229.1	214.0	205.8	204.7
72.5°	5580.0	3830.9	472.2	393.1	400.1	319.8	234.9	205.8	193.1	182.6	182.6
75°	3591.3	2337.6	394.3	350.1	326.8	248.9	203.5	183.8	171.0	160.5	160.5
77.5°	1208.3	867.6	305.9	296.6	244.2	187.2	171.0	158.2	147.7	138.4	137.2
80°	490.8	411.7	224.5	224.5	171.0	143.0	133.7	127.9	121.0	109.3	109.3
82.5°	284.9	250.0	157.0	136.1	114.0	98.9	93.0	87.2	87.2	79.1	79.1
85°	137.2	138.4	94.2	83.7	65.1	57.0	54.7	51.2	50.0	45.4	44.2
87.5°	74.4	75.6	47.7	37.2	25.6	22.1	18.6	17.4	16.3	15.1	15.1
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)