

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: P642852

Luminaire Tested: GWS-SA6D-760-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-760-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35830.7 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

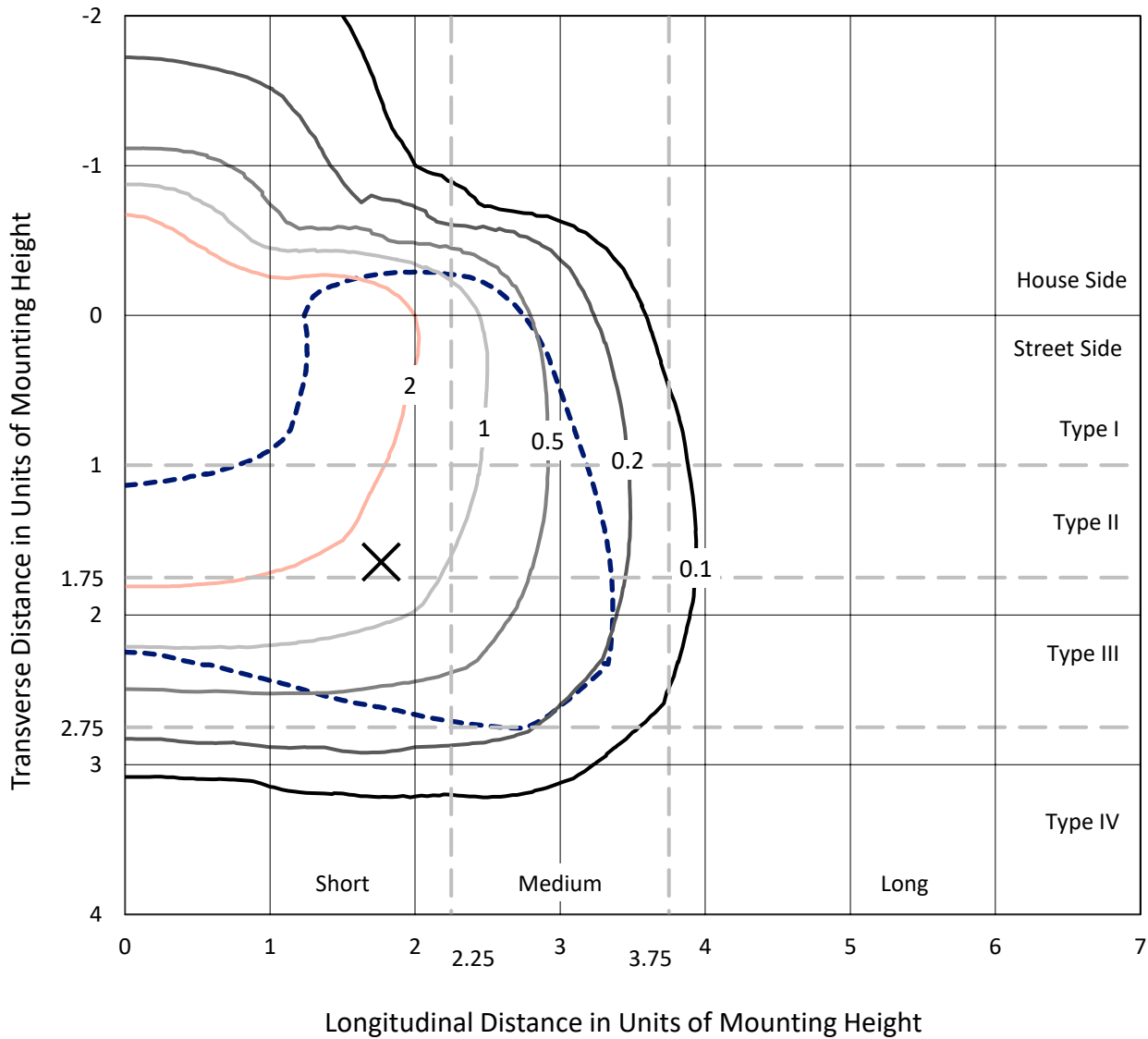
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

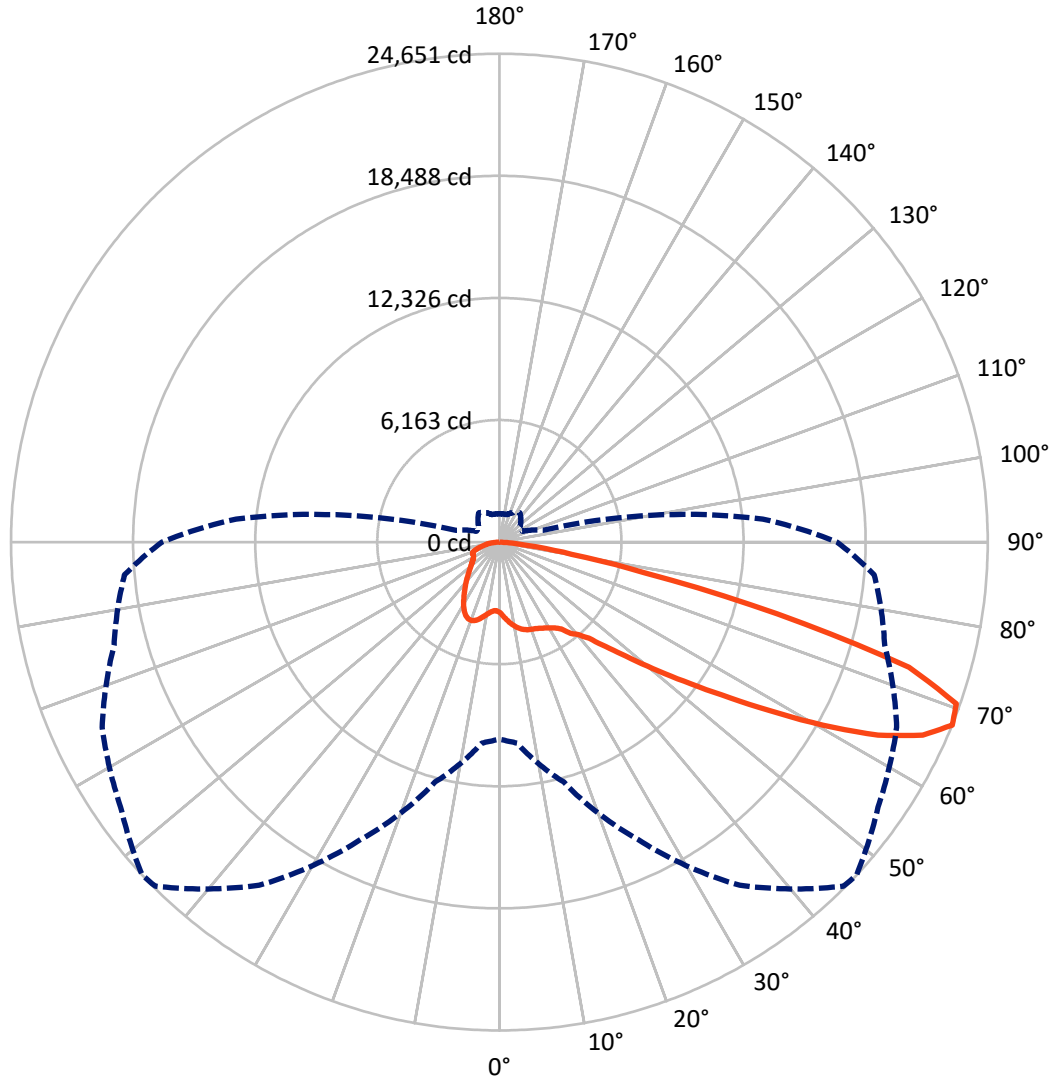
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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CATALOG NUMBER: GWS-SA6D-760-U-T4W-W

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8166.1	0.0	8166.1
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	27664.6	0.0	27664.6
	% Fixture	77.2	0.0	77.2
Total	Lumens	35830.7	0.0	35830.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.0	1.0
10°-20°	1209.4	3.4
20°-30°	2055.7	5.7
30°-40°	3011.4	8.4
40°-50°	4588.2	12.8
50°-60°	8209.3	22.9
60°-70°	10954.4	30.6
70°-80°	4953.8	13.8
80°-90°	485.3	1.4
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°	35830.7	100.0
0°-180°	35830.7	100.0

Coefficient of Utilization



REPORT NUMBER: P642852

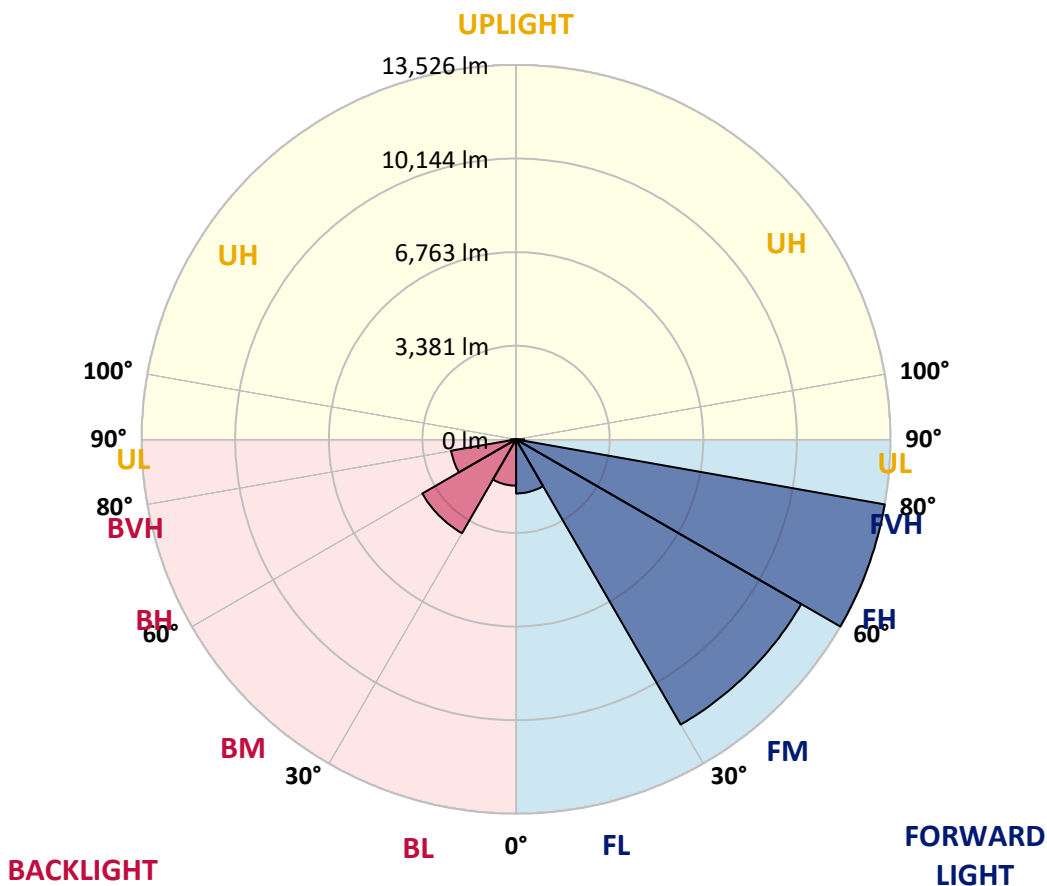
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1954.1	5.5			
FM (30°-60°)	11896.2	33.2			
FH (60°-80°)	13525.7	37.7			G5
FVH (80°-90°)	288.7	0.8			G3/500
BL (0°-30°)	1674.1	4.7	B3/2500		
BM (30°-60°)	3912.8	10.9	B3/5000		
BH (60°-80°)	2382.6	6.6	B3/2500		G3/2500
BVH (80°-90°)	196.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3552.0	3552.0	3552.0	3552.0	3552.0	3552.0	3552.0	3552.0	3552.0	3552.0	3552.0
2.5°	3787.7	3800.7	3798.1	3777.4	3764.4	3741.1	3743.7	3707.4	3653.0	3616.7	3575.3
5°	4121.9	4142.7	4116.7	4083.1	4031.3	3956.1	3948.3	3865.4	3761.8	3689.3	3614.1
7.5°	4412.1	4425.0	4394.0	4337.0	4261.8	4160.8	4142.7	4044.2	3914.7	3800.7	3691.9
10°	4637.5	4653.0	4611.6	4536.5	4438.0	4337.0	4324.0	4223.0	4085.7	3950.9	3813.6
12.5°	4829.2	4834.4	4790.3	4689.3	4583.1	4479.5	4466.5	4373.2	4246.3	4109.0	3958.7
15°	4940.6	4943.2	4888.8	4777.4	4676.4	4585.7	4577.9	4497.6	4381.0	4251.5	4090.8
17.5°	4932.8	4938.0	4899.2	4800.7	4712.6	4658.2	4650.4	4598.6	4508.0	4391.4	4230.7
20°	4837.0	4842.2	4816.3	4751.5	4704.9	4689.3	4691.9	4676.4	4621.9	4526.1	4362.9
22.5°	4761.8	4769.6	4746.3	4699.7	4694.5	4730.8	4738.5	4746.3	4720.4	4634.9	4476.9
25°	4798.1	4811.1	4774.8	4710.0	4720.4	4800.7	4816.3	4842.2	4821.4	4748.9	4611.6
27.5°	5049.4	5057.2	4963.9	4831.8	4800.7	4886.2	4909.5	4951.0	4935.4	4868.1	4761.8
30°	5632.4	5627.2	5427.7	5103.8	4974.3	5008.0	5026.1	5085.7	5090.9	5046.8	4945.8
32.5°	6453.6	6427.7	6119.4	5603.9	5228.2	5145.3	5166.0	5246.3	5305.9	5259.3	5122.0
35°	7321.5	7298.2	6958.8	6355.2	5697.1	5409.5	5386.2	5448.4	5539.1	5409.5	5212.6
37.5°	8148.0	8111.7	7764.6	7018.4	6274.9	5873.3	5839.6	5777.4	5723.0	5474.3	5324.0
40°	9065.1	9023.7	8720.6	7876.0	6912.2	6228.2	6142.7	5896.6	5847.4	5689.3	5614.2
42.5°	10044.4	10044.4	9793.1	8961.5	7681.7	6736.0	6624.6	6254.1	6306.0	6202.3	6114.2
45°	11023.8	11052.3	10852.8	10054.8	8710.2	7694.6	7515.8	6989.9	7114.3	7067.6	7023.6
47.5°	11858.0	11912.4	11873.5	11171.4	9969.3	8860.5	8588.4	8041.8	8308.6	8420.0	8544.4
50°	12757.0	12816.6	12777.7	12500.5	11443.5	10272.4	10028.9	9464.1	9922.7	10256.9	10663.6
52.5°	14091.2	14176.7	13852.9	13746.7	13233.7	11876.1	11658.5	11016.0	11847.6	12402.1	13308.8
55°	15218.2	15215.6	15101.6	15345.2	15156.0	13837.3	13596.4	13013.5	14075.7	14663.8	15990.3
57.5°	15741.6	15803.7	16195.0	16884.1	17262.4	16233.8	16003.2	15407.4	16467.0	16772.7	18205.4
60°	16011.0	16088.7	16845.2	18208.0	19226.2	18850.5	18759.8	18000.7	18596.6	18560.3	20073.3
62.5°	15632.8	15788.2	17003.3	18814.2	20627.8	21480.1	21451.6	20303.9	20407.6	20052.6	21231.4
65°	13896.9	14065.3	15972.1	18511.1	21428.3	23480.2	23488.0	22389.5	21798.8	20778.0	21037.1
67.5°	9938.2	10179.2	12536.8	16562.8	21145.9	24560.6	24651.3	23335.1	22125.2	20135.5	18995.6
70°	5417.3	5593.5	7440.7	12039.3	18601.8	24301.5	24469.9	22879.2	20684.8	17417.8	14622.3
72.5°	2461.2	2518.2	3461.3	6606.5	12707.8	20917.9	21622.6	20417.9	16987.7	12865.8	9298.3
75°	1127.0	1152.9	1507.8	3160.7	6640.2	13998.0	14492.8	15207.9	11821.7	8124.7	4847.3
77.5°	707.3	715.1	857.5	1445.7	3311.0	6987.3	7508.1	9054.8	6922.6	4020.9	2026.0
80°	417.1	424.9	533.7	782.4	1554.5	3197.0	3691.9	3580.5	3254.0	1735.8	922.3
82.5°	209.9	217.6	308.3	445.6	847.2	1272.1	1497.5	1505.2	1212.5	940.5	520.7
85°	75.1	77.7	101.0	176.2	360.1	419.7	468.9	572.6	593.3	546.7	251.3
87.5°	0.0	0.0	2.6	5.2	10.4	41.5	44.0	82.9	173.6	194.3	101.0
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°	3552.0	3552.0	3552.0	3552.0	3552.0	3552.0	3552.0	3552.0	3552.0	3552.0	3552.0
2.5°	3562.3	3523.5	3510.5	3497.5	3476.8	3469.1	3453.5	3438.0	3438.0	3422.4	3414.6
5°	3580.5	3528.6	3495.0	3479.4	3466.5	3474.2	3474.2	3479.4	3497.5	3487.2	3492.4
7.5°	3645.2	3585.6	3539.0	3526.0	3526.0	3557.1	3577.9	3603.8	3637.5	3642.6	3642.6
10°	3759.2	3689.3	3640.0	3632.3	3645.2	3689.3	3720.4	3751.4	3792.9	3795.5	3800.7
12.5°	3883.6	3813.6	3764.4	3774.8	3787.7	3844.7	3878.4	3904.3	3945.8	3945.8	3943.2
15°	4013.1	3935.4	3893.9	3914.7	3953.5	4018.3	4023.5	4026.1	4046.8	4041.6	4039.0
17.5°	4147.8	4064.9	4033.8	4064.9	4106.4	4137.5	4111.6	4075.3	4067.5	4057.2	4052.0
20°	4280.0	4194.5	4181.5	4204.8	4217.8	4191.9	4111.6	4044.2	4013.1	3997.6	3992.4
22.5°	4394.0	4321.4	4313.6	4313.6	4248.9	4158.2	4039.0	3948.3	3906.9	3886.2	3881.0
25°	4528.7	4461.3	4448.4	4378.4	4212.6	4046.8	3886.2	3803.3	3769.6	3759.2	3761.8
27.5°	4686.7	4640.1	4598.6	4399.1	4109.0	3849.9	3668.5	3632.3	3619.3	3632.3	3640.0
30°	4881.0	4834.4	4741.1	4373.2	3943.2	3593.4	3419.8	3417.2	3456.1	3489.8	3495.0
32.5°	5039.1	5018.3	4865.5	4290.3	3710.0	3311.0	3163.3	3173.7	3243.7	3290.3	3298.1
35°	5163.4	5197.1	4969.1	4153.0	3432.8	3044.2	2927.6	2932.8	2971.6	3036.4	3039.0
37.5°	5339.6	5453.6	5062.4	3943.2	3114.1	2813.6	2707.4	2668.5	2663.3	2681.5	2686.6
40°	5694.5	5865.5	5129.7	3637.5	2805.8	2606.3	2487.1	2412.0	2347.2	2298.0	2282.5
42.5°	6230.8	6427.7	5168.6	3267.0	2531.2	2401.7	2266.9	2171.1	2057.1	1953.4	1917.2
45°	7215.3	7280.1	5168.6	2873.2	2287.7	2209.9	2075.2	1961.2	1816.1	1694.4	1668.5
47.5°	8790.5	8583.2	5173.8	2492.3	2072.6	2041.5	1924.9	1795.4	1634.8	1533.7	1518.2
50°	11163.7	10435.7	5280.0	2176.3	1893.9	1899.0	1813.5	1671.1	1526.0	1450.8	1437.9
52.5°	13852.9	12718.1	5565.0	1943.1	1743.6	1782.5	1735.8	1598.5	1469.0	1404.2	1391.2
55°	16381.5	14816.7	5808.5	1777.3	1616.6	1684.0	1681.4	1554.5	1437.9	1373.1	1365.3
57.5°	18531.8	16254.5	5772.3	1642.6	1507.8	1593.3	1632.2	1526.0	1417.2	1362.7	1355.0
60°	19868.7	17016.2	5256.7	1518.2	1424.9	1528.6	1603.7	1518.2	1427.5	1414.6	1417.2
62.5°	20449.0	16876.3	4267.0	1424.9	1370.5	1497.5	1634.8	1572.6	1523.4	1554.5	1572.6
65°	19547.4	15674.2	3140.0	1355.0	1318.7	1505.2	1707.3	1658.1	1523.4	1544.1	1551.9
67.5°	17044.7	13342.5	2269.5	1285.0	1253.9	1528.6	1811.0	1645.1	1435.3	1435.3	1419.7
70°	12282.9	9596.2	1647.7	1215.1	1189.2	1494.9	1816.1	1557.1	1334.3	1326.5	1287.6
72.5°	7391.5	5660.8	1285.0	1137.4	1090.7	1326.5	1702.1	1453.4	1235.8	1171.0	1124.4
75°	3839.5	2836.9	1077.8	1051.9	935.3	1124.4	1557.1	1292.8	1057.0	1000.0	974.1
77.5°	1645.1	1326.5	924.9	937.9	777.2	945.6	1256.5	1119.2	937.9	865.3	842.0
80°	810.9	753.9	730.6	751.3	621.8	730.6	1082.9	979.3	795.4	712.5	678.8
82.5°	463.7	440.4	525.9	533.7	443.0	611.4	914.5	829.0	658.1	567.4	513.0
85°	215.0	230.6	318.7	321.3	274.6	419.7	598.5	466.3	349.8	290.2	277.2
87.5°	85.5	101.0	139.9	137.3	80.3	77.7	51.8	28.5	23.3	20.7	18.1
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)