

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: P638837

Luminaire Tested: GWS-SA4F-750-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638837
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-SA4F-750-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34506.1 lumens
Efficiency: N/A
Efficacy: 153.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

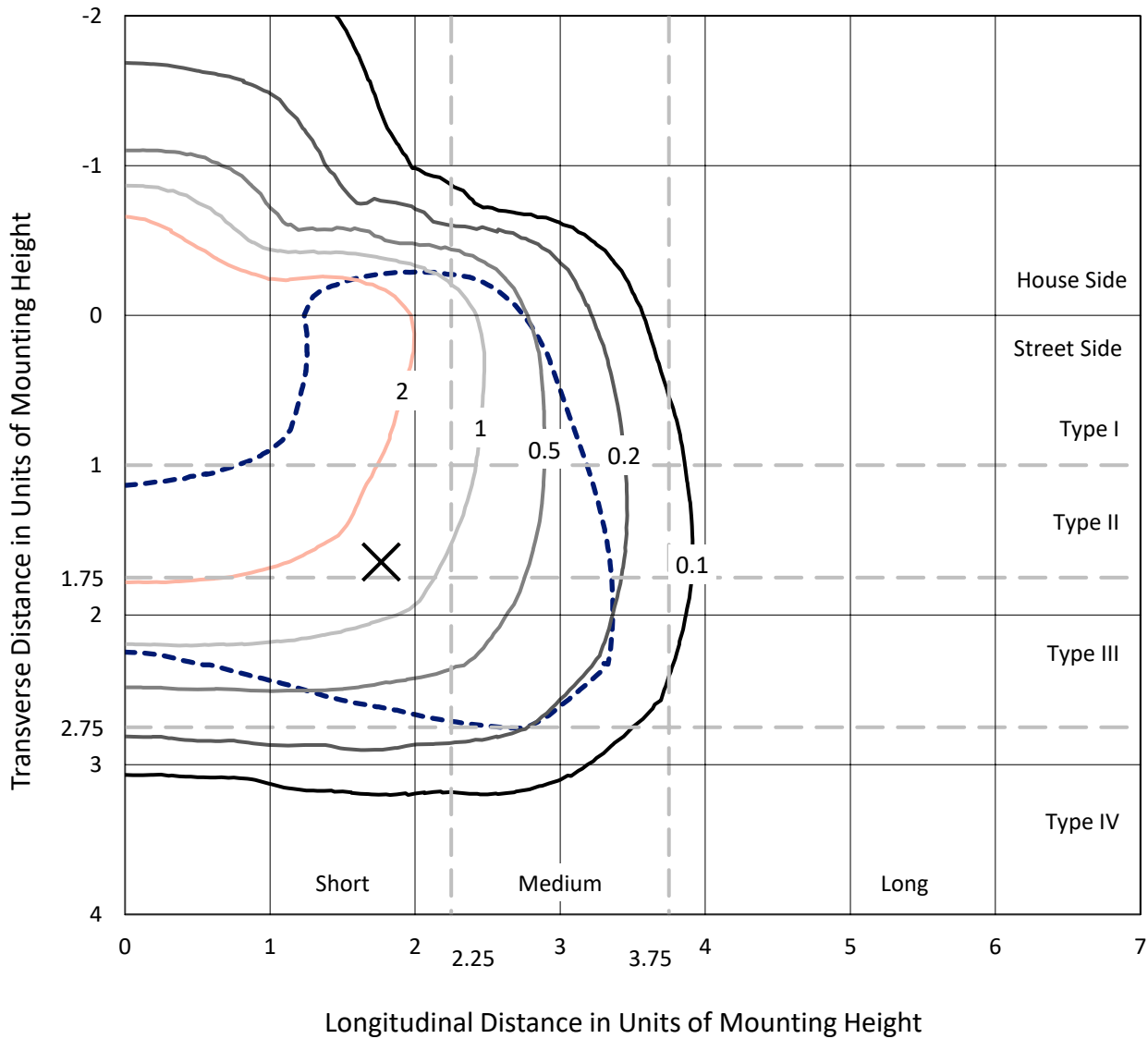
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

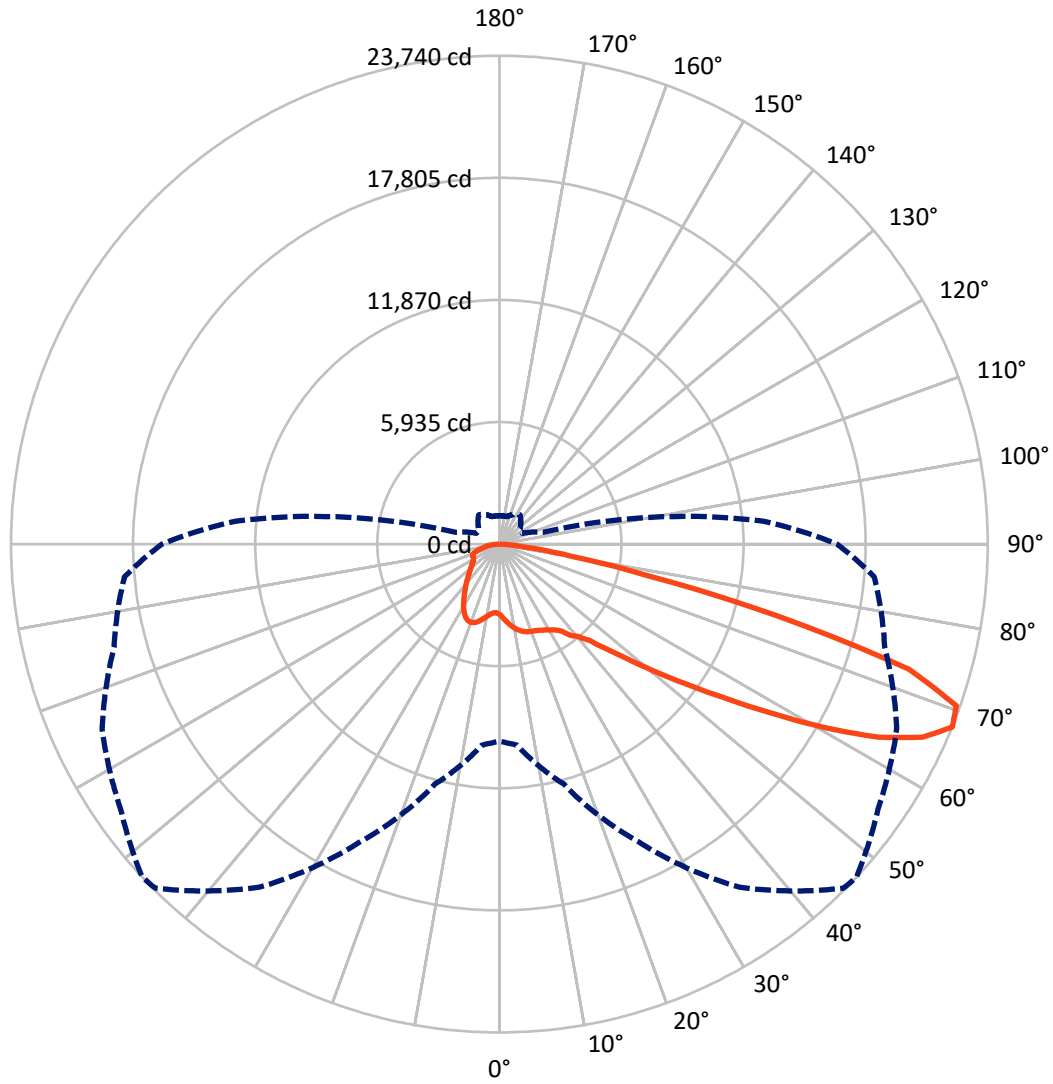
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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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	7864.2	0.0	7864.2
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	26641.9	0.0	26641.9
	% Fixture	77.2	0.0	77.2
Total	Lumens	34506.1	0.0	34506.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.6	1.0
10°-20°	1164.7	3.4
20°-30°	1979.7	5.7
30°-40°	2900.1	8.4
40°-50°	4418.6	12.8
50°-60°	7905.8	22.9
60°-70°	10549.5	30.6
70°-80°	4770.7	13.8
80°-90°	467.4	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°	34506.1	100.0
0°-180°	34506.1	100.0

Coefficient of Utilization



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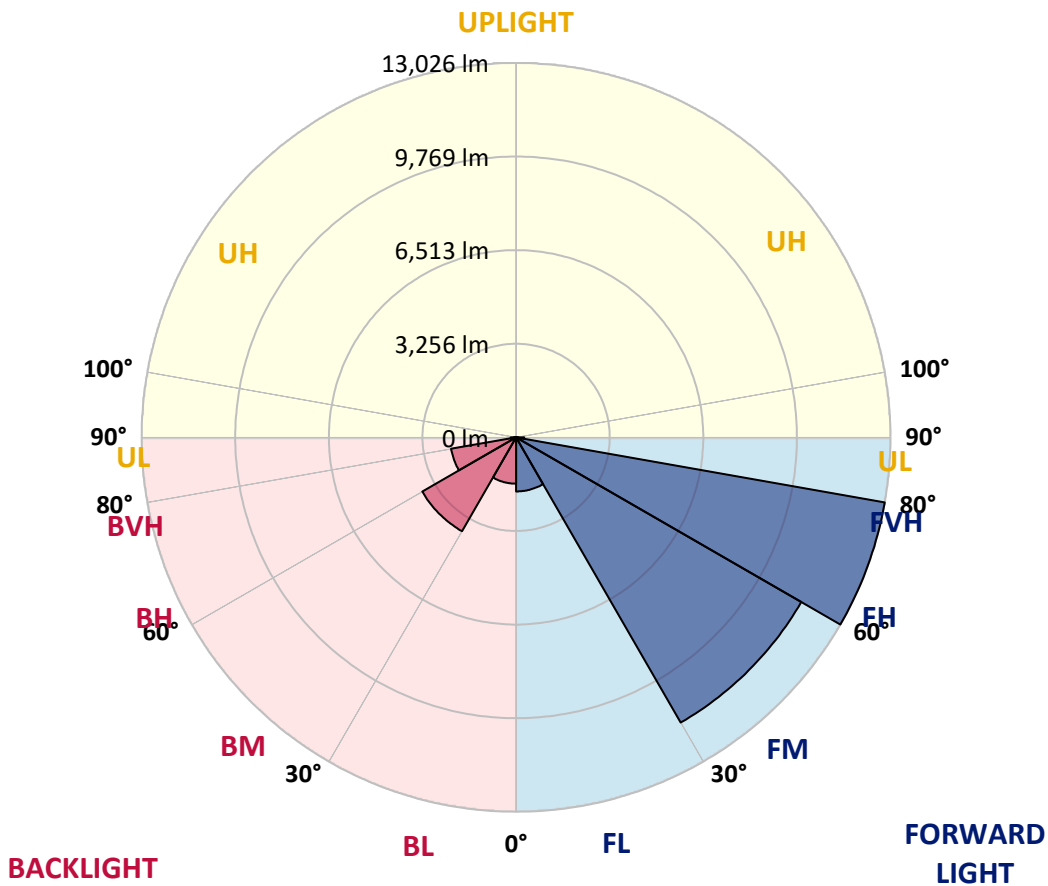
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1881.8	5.5			
FM (30°-60°)	11456.4	33.2			
FH (60°-80°)	13025.7	37.7			G5
FVH (80°-90°)	278.0	0.8			G3/500
BL (0°-30°)	1612.2	4.7	B3/2500		
BM (30°-60°)	3768.1	10.9	B3/5000		
BH (60°-80°)	2294.5	6.6	B3/2500		G3/2500
BVH (80°-90°)	189.4	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°	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6
2.5°	3647.7	3660.2	3657.7	3637.7	3625.2	3602.8	3605.3	3570.3	3518.0	3483.0	3443.1
5°	3969.5	3989.5	3964.6	3932.1	3882.2	3809.9	3802.4	3722.5	3622.7	3552.9	3480.5
7.5°	4249.0	4261.5	4231.5	4176.6	4104.3	4007.0	3989.5	3894.7	3769.9	3660.2	3555.4
10°	4466.1	4481.0	4441.1	4368.7	4273.9	4176.6	4164.2	4066.9	3934.6	3804.9	3672.6
12.5°	4650.7	4655.7	4613.3	4516.0	4413.7	4313.9	4301.4	4211.6	4089.3	3957.1	3812.4
15°	4758.0	4760.5	4708.1	4600.8	4503.5	4416.2	4408.7	4331.3	4219.0	4094.3	3939.6
17.5°	4750.5	4755.5	4718.0	4623.2	4538.4	4486.0	4478.5	4428.6	4341.3	4229.0	4074.3
20°	4658.2	4663.2	4638.2	4575.8	4530.9	4516.0	4518.4	4503.5	4451.1	4358.8	4201.6
22.5°	4585.8	4593.3	4570.8	4525.9	4520.9	4555.9	4563.4	4570.8	4545.9	4463.6	4311.4
25°	4620.7	4633.2	4598.3	4535.9	4545.9	4623.2	4638.2	4663.2	4643.2	4573.3	4441.1
27.5°	4862.8	4870.2	4780.4	4653.2	4623.2	4705.6	4728.0	4767.9	4753.0	4688.1	4585.8
30°	5424.1	5419.1	5227.0	4915.2	4790.4	4822.8	4840.3	4897.7	4902.7	4860.3	4763.0
32.5°	6215.0	6190.1	5893.2	5396.7	5034.9	4955.1	4975.0	5052.4	5109.8	5064.9	4932.6
35°	7050.9	7028.4	6701.6	6120.2	5486.5	5209.6	5187.1	5247.0	5334.3	5209.6	5019.9
37.5°	7846.8	7811.8	7477.5	6759.0	6042.9	5656.2	5623.7	5563.9	5511.5	5271.9	5127.2
40°	8730.0	8690.1	8398.2	7584.8	6656.7	5998.0	5915.6	5678.6	5631.2	5479.0	5406.7
42.5°	9673.1	9673.1	9431.1	8630.2	7397.7	6487.0	6379.7	6022.9	6072.8	5973.0	5888.2
45°	10616.2	10643.7	10451.6	9683.1	8388.2	7410.2	7238.0	6731.5	6851.3	6806.4	6763.9
47.5°	11419.6	11472.0	11434.6	10758.4	9600.8	8532.9	8270.9	7744.5	8001.5	8108.8	8228.5
50°	12285.4	12342.8	12305.3	12038.4	11020.4	9892.7	9658.1	9114.2	9555.9	9877.7	10269.4
52.5°	13570.3	13652.6	13340.8	13238.5	12744.5	11437.1	11227.5	10608.7	11409.6	11943.6	12816.8
55°	14655.6	14653.1	14543.4	14777.9	14595.8	13325.8	13093.8	12532.4	13555.3	14121.7	15399.1
57.5°	15159.6	15219.5	15596.3	16259.9	16624.2	15633.7	15411.6	14837.8	15858.2	16152.6	17532.4
60°	15419.1	15494.0	16222.5	17534.9	18515.4	18153.6	18066.3	17335.3	17909.1	17874.2	19331.3
62.5°	15054.8	15204.5	16374.7	18118.7	19865.2	20686.1	20658.6	19553.3	19653.1	19311.3	20446.5
65°	13383.2	13545.4	15381.7	17826.8	20636.2	22612.2	22619.7	21561.8	20992.9	20009.9	20259.4
67.5°	9570.8	9802.9	12073.3	15950.5	20364.2	23652.6	23739.9	22472.5	21307.3	19391.1	18293.3
70°	5217.0	5386.7	7165.6	11594.3	17914.1	23403.1	23565.3	22033.4	19920.1	16773.9	14081.8
72.5°	2370.3	2425.1	3333.3	6362.3	12238.0	20144.6	20823.3	19663.1	16359.7	12390.2	8954.6
75°	1085.3	1110.3	1452.1	3043.9	6394.7	13480.5	13957.0	14645.7	11384.7	7824.3	4668.1
77.5°	681.1	688.6	825.8	1392.2	3188.6	6729.0	7230.5	8720.0	6666.6	3872.2	1951.1
80°	401.7	409.2	514.0	753.5	1497.0	3078.8	3555.4	3448.1	3133.7	1671.7	888.2
82.5°	202.1	209.6	296.9	429.1	815.9	1225.0	1442.1	1449.6	1167.7	905.7	501.5
85°	72.4	74.9	97.3	169.7	346.8	404.2	451.6	551.4	571.4	526.4	242.0
87.5°	0.0	0.0	2.5	5.0	10.0	39.9	42.4	79.8	167.2	187.1	97.3
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°	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6
2.5°	3430.6	3393.2	3380.7	3368.3	3348.3	3340.8	3325.8	3310.9	3310.9	3295.9	3288.4
5°	3448.1	3398.2	3365.8	3350.8	3338.3	3345.8	3345.8	3350.8	3368.3	3358.3	3363.3
7.5°	3510.5	3453.1	3408.2	3395.7	3395.7	3425.6	3445.6	3470.5	3503.0	3508.0	3508.0
10°	3620.2	3552.9	3505.5	3498.0	3510.5	3552.9	3582.8	3612.8	3652.7	3655.2	3660.2
12.5°	3740.0	3672.6	3625.2	3635.2	3647.7	3702.6	3735.0	3760.0	3799.9	3799.9	3797.4
15°	3864.8	3789.9	3750.0	3769.9	3807.4	3869.7	3874.7	3877.2	3897.2	3892.2	3889.7
17.5°	3994.5	3914.7	3884.7	3914.7	3954.6	3984.5	3959.6	3924.6	3917.2	3907.2	3902.2
20°	4121.7	4039.4	4026.9	4049.4	4061.9	4036.9	3959.6	3894.7	3864.8	3849.8	3844.8
22.5°	4231.5	4161.7	4154.2	4154.2	4091.8	4004.5	3889.7	3802.4	3762.5	3742.5	3737.5
25°	4361.3	4296.4	4283.9	4216.6	4056.9	3897.2	3742.5	3662.7	3630.2	3620.2	3622.7
27.5°	4513.5	4468.5	4428.6	4236.5	3957.1	3707.6	3532.9	3498.0	3485.5	3498.0	3505.5
30°	4700.6	4655.7	4565.9	4211.6	3797.4	3460.6	3293.4	3290.9	3328.3	3360.8	3365.8
32.5°	4852.8	4832.8	4685.6	4131.7	3572.8	3188.6	3046.4	3056.4	3123.7	3168.7	3176.1
35°	4972.5	5005.0	4785.4	3999.5	3305.9	2931.6	2819.4	2824.3	2861.8	2924.1	2926.6
37.5°	5142.2	5252.0	4875.2	3797.4	2999.0	2709.6	2607.3	2569.9	2564.9	2582.3	2587.3
40°	5484.0	5648.7	4940.1	3503.0	2702.1	2510.0	2395.2	2322.8	2260.5	2213.1	2198.1
42.5°	6000.5	6190.1	4977.5	3146.2	2437.6	2312.9	2183.1	2090.8	1981.0	1881.2	1846.3
45°	6948.6	7011.0	4977.5	2767.0	2203.1	2128.2	1998.5	1888.7	1749.0	1631.7	1606.8
47.5°	8465.5	8265.9	4982.5	2400.2	1996.0	1966.1	1853.8	1729.0	1574.3	1477.0	1462.1
50°	10751.0	10049.9	5084.8	2095.8	1823.8	1828.8	1746.5	1609.3	1469.6	1397.2	1384.7
52.5°	13340.8	12248.0	5359.3	1871.3	1679.1	1716.6	1671.7	1539.4	1414.7	1352.3	1339.8
55°	15775.9	14268.9	5593.8	1711.6	1556.9	1621.8	1619.3	1497.0	1384.7	1322.4	1314.9
57.5°	17846.7	15653.6	5558.9	1581.8	1452.1	1534.4	1571.9	1469.6	1364.8	1312.4	1304.9
60°	19134.2	16387.2	5062.4	1462.1	1372.3	1472.1	1544.4	1462.1	1374.7	1362.3	1364.8
62.5°	19693.0	16252.4	4109.3	1372.3	1319.9	1442.1	1574.3	1514.5	1467.1	1497.0	1514.5
65°	18824.8	15094.8	3023.9	1304.9	1270.0	1449.6	1644.2	1596.8	1467.1	1487.0	1494.5
67.5°	16414.6	12849.3	2185.6	1237.5	1207.6	1472.1	1744.0	1584.3	1382.2	1382.2	1367.3
70°	11828.8	9241.5	1586.8	1170.2	1145.2	1439.6	1749.0	1499.5	1284.9	1277.4	1240.0
72.5°	7118.2	5451.6	1237.5	1095.3	1050.4	1277.4	1639.2	1399.7	1190.1	1127.7	1082.8
75°	3697.6	2732.0	1037.9	1013.0	900.7	1082.8	1499.5	1245.0	1018.0	963.1	938.1
77.5°	1584.3	1277.4	890.7	903.2	748.5	910.7	1210.1	1077.8	903.2	833.3	810.9
80°	780.9	726.0	703.6	723.6	598.8	703.6	1042.9	943.1	766.0	686.1	653.7
82.5°	446.6	424.2	506.5	514.0	426.6	588.8	880.7	798.4	633.7	546.4	494.0
85°	207.1	222.1	306.9	309.4	264.5	404.2	576.3	449.1	336.8	279.4	267.0
87.5°	82.3	97.3	134.7	132.2	77.3	74.9	49.9	27.4	22.5	20.0	17.5
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)