

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: P642742

Luminaire Tested: GWS-SA6D-740-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642742
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-740-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35514.8 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

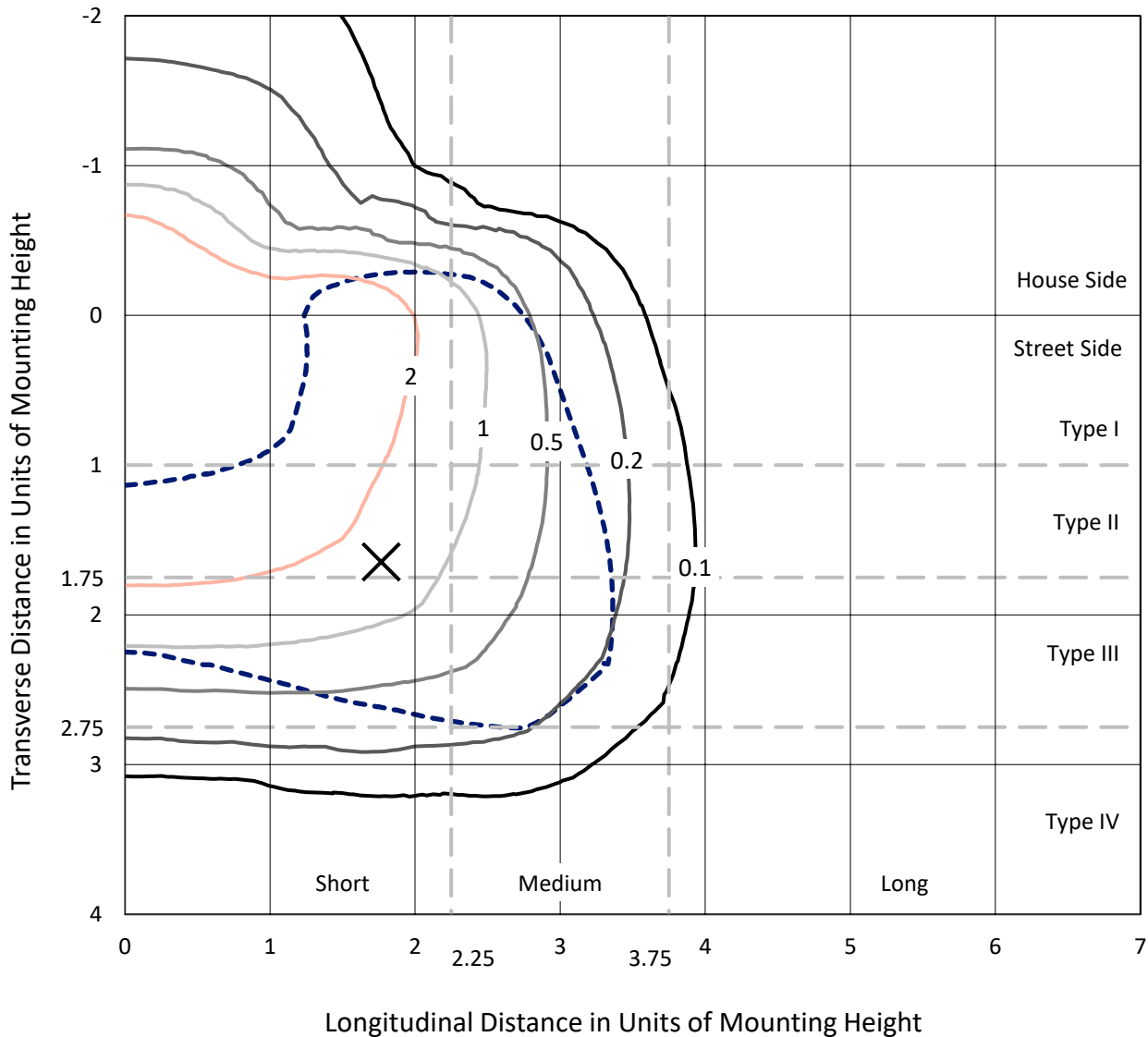
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

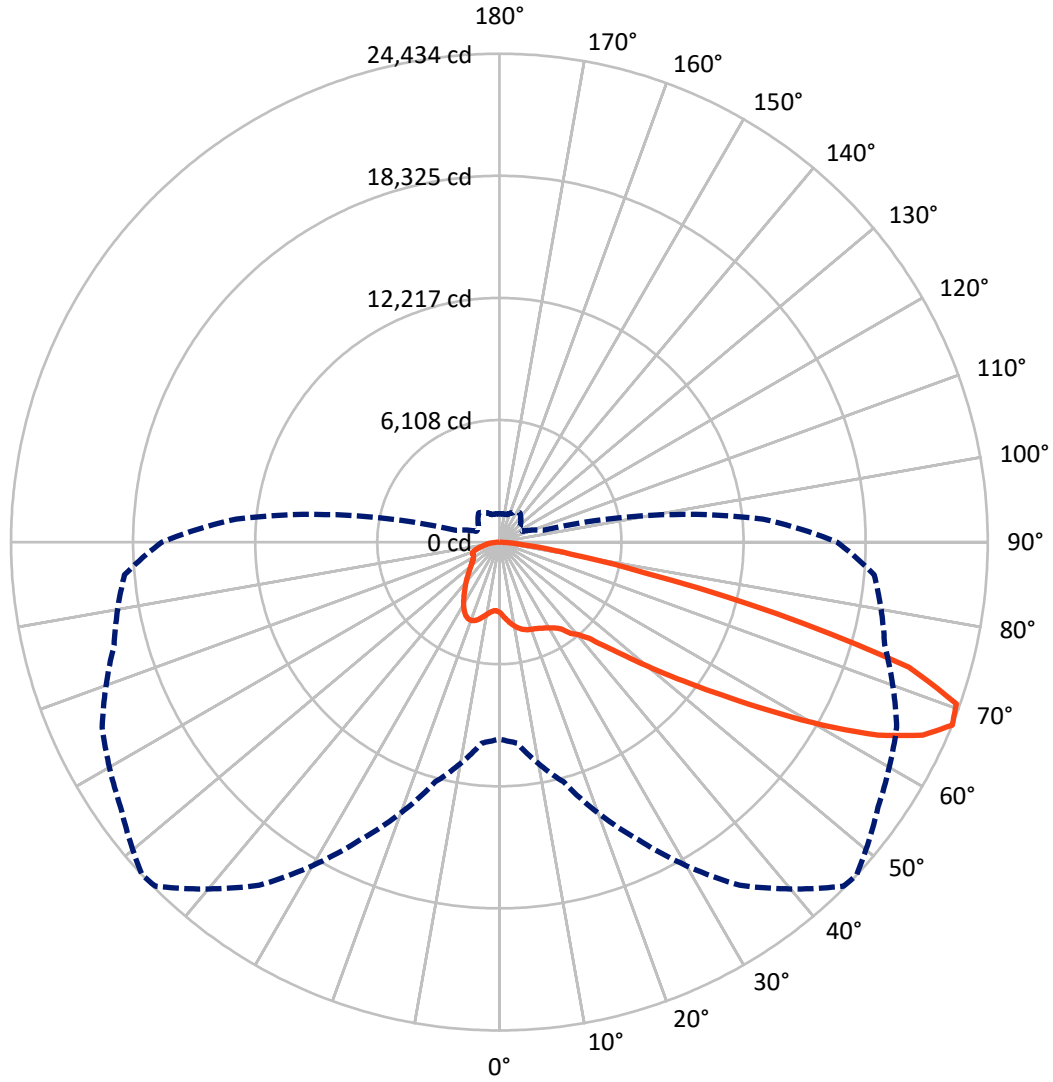
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 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	8094.1	0.0	8094.1
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	27420.7	0.0	27420.7
	% Fixture	77.2	0.0	77.2
Total	Lumens	35514.8	0.0	35514.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.8	1.0
10°-20°	1198.8	3.4
20°-30°	2037.6	5.7
30°-40°	2984.8	8.4
40°-50°	4547.8	12.8
50°-60°	8136.9	22.9
60°-70°	10857.9	30.6
70°-80°	4910.2	13.8
80°-90°	481.1	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°	35514.8	100.0
0°-180°	35514.8	100.0

Coefficient of Utilization



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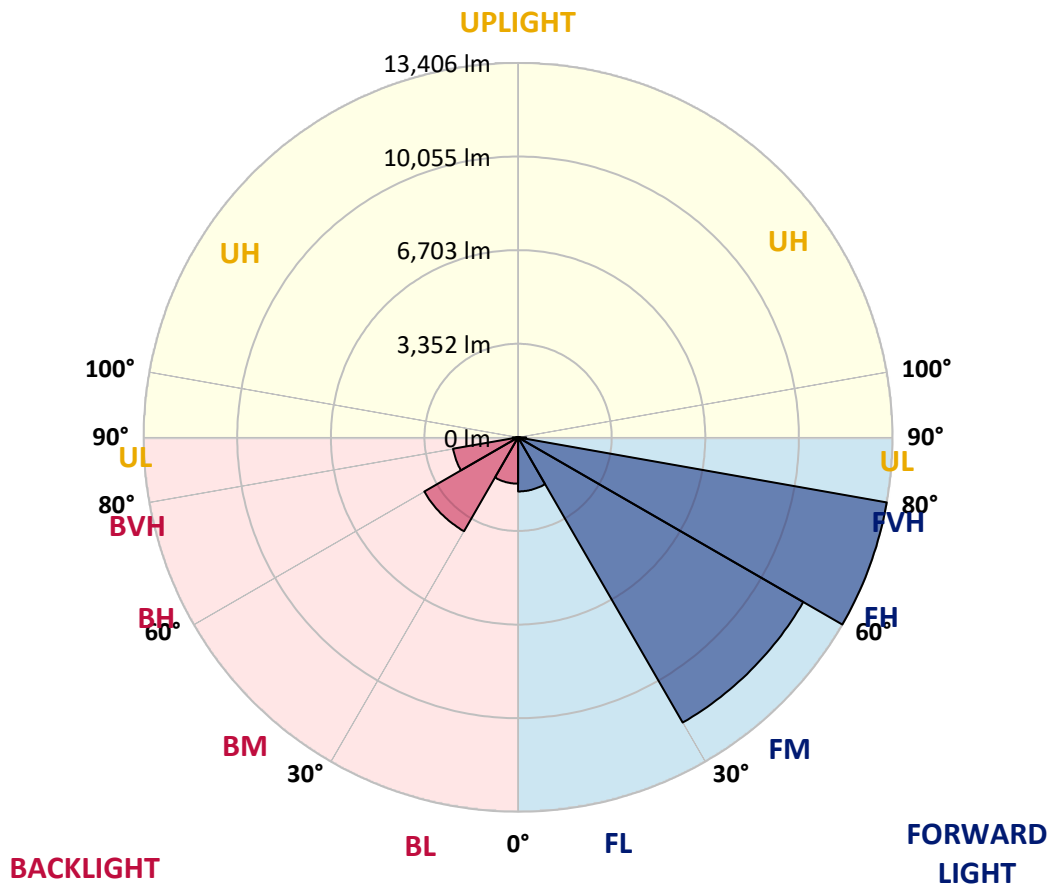
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1936.9	5.5			
FM (30°-60°)	11791.3	33.2			
FH (60°-80°)	13406.4	37.7			G5
FVH (80°-90°)	286.2	0.8			G3/500
BL (0°-30°)	1659.3	4.7	B3/2500		
BM (30°-60°)	3878.3	10.9	B3/5000		
BH (60°-80°)	2361.6	6.6	B3/2500		G3/2500
BVH (80°-90°)	194.9	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°	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6
2.5°	3754.3	3767.2	3764.6	3744.1	3731.2	3708.1	3710.7	3674.7	3620.8	3584.8	3543.8
5°	4085.6	4106.1	4080.5	4047.1	3995.7	3921.2	3913.5	3831.4	3728.6	3656.7	3582.3
7.5°	4373.2	4386.0	4355.2	4298.7	4224.3	4124.1	4106.1	4008.5	3880.2	3767.2	3659.3
10°	4596.6	4612.0	4570.9	4496.5	4398.9	4298.7	4285.9	4185.7	4049.6	3916.1	3780.0
12.5°	4786.6	4791.8	4748.1	4648.0	4542.7	4440.0	4427.1	4334.7	4208.8	4072.7	3923.8
15°	4897.1	4899.6	4845.7	4735.3	4635.1	4545.2	4537.5	4457.9	4342.4	4214.0	4054.8
17.5°	4889.4	4894.5	4856.0	4758.4	4671.1	4617.1	4609.4	4558.1	4468.2	4352.7	4193.4
20°	4794.3	4799.5	4773.8	4709.6	4663.4	4648.0	4650.5	4635.1	4581.2	4486.2	4324.4
22.5°	4719.9	4727.6	4704.5	4658.2	4653.1	4689.1	4696.8	4704.5	4678.8	4594.0	4437.4
25°	4755.8	4768.7	4732.7	4668.5	4678.8	4758.4	4773.8	4799.5	4778.9	4707.0	4570.9
27.5°	5004.9	5012.6	4920.2	4789.2	4758.4	4843.1	4866.2	4907.3	4891.9	4825.2	4719.9
30°	5582.7	5577.6	5379.8	5058.8	4930.4	4963.8	4981.8	5040.9	5046.0	5002.3	4902.2
32.5°	6396.7	6371.0	6065.5	5554.4	5182.1	5099.9	5120.5	5200.1	5259.1	5212.9	5076.8
35°	7257.0	7233.9	6897.5	6299.1	5646.9	5361.9	5338.7	5400.4	5490.2	5361.9	5166.7
37.5°	8076.2	8040.2	7696.1	6956.5	6219.5	5821.5	5788.1	5726.5	5672.6	5426.0	5277.1
40°	8985.2	8944.1	8643.7	7806.5	6851.3	6173.3	6088.6	5844.6	5795.8	5639.2	5564.7
42.5°	9955.9	9955.9	9706.8	8882.5	7613.9	6676.6	6566.2	6199.0	6250.4	6147.6	6060.3
45°	10926.6	10954.8	10757.1	9966.2	8633.4	7626.8	7449.6	6928.3	7051.6	7005.3	6961.7
47.5°	11753.4	11807.4	11768.9	11072.9	9881.4	8782.3	8512.7	7970.9	8235.4	8345.8	8469.1
50°	12644.5	12703.6	12665.1	12390.3	11342.6	10181.9	9940.5	9380.7	9835.2	10166.5	10569.6
52.5°	13967.0	14051.7	13730.8	13625.5	13117.0	11771.4	11555.7	10918.9	11743.2	12292.7	13191.5
55°	15084.1	15081.5	14968.5	15209.9	15022.4	13715.3	13476.5	12898.7	13951.6	14534.5	15849.3
57.5°	15602.8	15664.4	16052.2	16735.2	17110.2	16090.7	15862.1	15271.5	16321.8	16624.8	18044.9
60°	15869.8	15946.9	16696.7	18047.5	19056.7	18684.3	18594.4	17842.0	18432.6	18396.7	19896.4
62.5°	15494.9	15649.0	16853.4	18648.4	20445.9	21290.8	21262.5	20124.9	20227.6	19875.8	21044.2
65°	13774.4	13941.3	15831.3	18347.9	21239.4	23273.2	23280.9	22192.1	21606.6	20594.8	20851.6
67.5°	9850.6	10089.4	12426.2	16416.8	20959.5	24344.0	24433.9	23129.4	21930.2	19958.0	18828.1
70°	5369.6	5544.2	7375.1	11933.2	18437.8	24087.2	24254.2	22677.4	20502.4	17264.2	14493.4
72.5°	2439.5	2496.0	3430.8	6548.2	12595.7	20733.5	21432.0	20237.9	16838.0	12752.4	9216.3
75°	1117.1	1142.7	1494.5	3132.9	6581.6	13874.6	14365.0	15073.8	11717.5	8053.0	4804.6
77.5°	701.0	708.8	850.0	1432.9	3281.8	6925.7	7441.9	8974.9	6861.5	3985.4	2008.1
80°	413.4	421.1	529.0	775.5	1540.8	3168.8	3659.3	3548.9	3225.3	1720.5	914.2
82.5°	208.0	215.7	305.6	441.7	839.7	1260.9	1484.3	1492.0	1201.8	932.2	516.2
85°	74.5	77.0	100.1	174.6	356.9	416.0	464.8	567.5	588.1	541.8	249.1
87.5°	0.0	0.0	2.6	5.1	10.3	41.1	43.7	82.2	172.1	192.6	100.1
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°	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6
2.5°	3530.9	3492.4	3479.6	3466.7	3446.2	3438.5	3423.1	3407.7	3407.7	3392.2	3384.5
5°	3548.9	3497.5	3464.1	3448.7	3435.9	3443.6	3443.6	3448.7	3466.7	3456.4	3461.6
7.5°	3613.1	3554.0	3507.8	3495.0	3495.0	3525.8	3546.3	3572.0	3605.4	3610.5	3610.5
10°	3726.1	3656.7	3608.0	3600.2	3613.1	3656.7	3687.6	3718.4	3759.5	3762.0	3767.2
12.5°	3849.3	3780.0	3731.2	3741.5	3754.3	3810.8	3844.2	3869.9	3911.0	3911.0	3908.4
15°	3977.7	3900.7	3859.6	3880.2	3918.7	3982.9	3988.0	3990.6	4011.1	4006.0	4003.4
17.5°	4111.3	4029.1	3998.3	4029.1	4070.2	4101.0	4075.3	4039.4	4031.7	4021.4	4016.3
20°	4242.2	4157.5	4144.6	4167.8	4180.6	4154.9	4075.3	4008.5	3977.7	3962.3	3957.2
22.5°	4355.2	4283.3	4275.6	4275.6	4211.4	4121.5	4003.4	3913.5	3872.4	3851.9	3846.8
25°	4488.8	4422.0	4409.1	4339.8	4175.5	4011.1	3851.9	3769.7	3736.3	3726.1	3728.6
27.5°	4645.4	4599.2	4558.1	4360.4	4072.7	3816.0	3636.2	3600.2	3587.4	3600.2	3608.0
30°	4838.0	4791.8	4699.3	4334.7	3908.4	3561.7	3389.7	3387.1	3425.6	3459.0	3464.1
32.5°	4994.6	4974.1	4822.6	4252.5	3677.3	3281.8	3135.5	3145.7	3215.1	3261.3	3269.0
35°	5117.9	5151.3	4925.3	4116.4	3402.5	3017.3	2901.8	2906.9	2945.4	3009.6	3012.2
37.5°	5292.5	5405.5	5017.7	3908.4	3086.7	2788.8	2683.5	2645.0	2639.8	2657.8	2662.9
40°	5644.3	5813.8	5084.5	3605.4	2781.1	2583.3	2465.2	2390.7	2326.6	2277.8	2262.4
42.5°	6175.9	6371.0	5123.0	3238.2	2508.9	2380.5	2246.9	2151.9	2038.9	1936.2	1900.3
45°	7151.7	7215.9	5123.0	2847.8	2267.5	2190.4	2056.9	1943.9	1800.1	1679.4	1653.8
47.5°	8713.0	8507.6	5128.2	2470.4	2054.3	2023.5	1908.0	1779.6	1620.4	1520.2	1504.8
50°	11065.2	10343.6	5233.5	2157.1	1877.2	1882.3	1797.6	1656.3	1512.5	1438.0	1425.2
52.5°	13730.8	12606.0	5515.9	1926.0	1728.2	1766.7	1720.5	1584.4	1456.0	1391.8	1379.0
55°	16237.1	14686.0	5757.3	1761.6	1602.4	1669.2	1666.6	1540.8	1425.2	1361.0	1353.3
57.5°	18368.4	16111.2	5721.4	1628.1	1494.5	1579.3	1617.8	1512.5	1404.7	1350.7	1343.0
60°	19693.5	16866.2	5210.3	1504.8	1412.4	1515.1	1589.6	1504.8	1414.9	1402.1	1404.7
62.5°	20268.7	16727.5	4229.4	1412.4	1358.4	1484.3	1620.4	1558.7	1509.9	1540.8	1558.7
65°	19375.1	15536.0	3112.3	1343.0	1307.1	1492.0	1692.3	1643.5	1509.9	1530.5	1538.2
67.5°	16894.5	13224.9	2249.5	1273.7	1242.9	1515.1	1795.0	1630.6	1422.6	1422.6	1407.2
70°	12174.6	9511.6	1633.2	1204.4	1178.7	1481.7	1800.1	1543.3	1322.5	1314.8	1276.3
72.5°	7326.3	5610.9	1273.7	1127.3	1081.1	1314.8	1687.1	1440.6	1224.9	1160.7	1114.5
75°	3805.7	2811.9	1068.3	1042.6	927.0	1114.5	1543.3	1281.4	1047.7	991.2	965.5
77.5°	1630.6	1314.8	916.8	929.6	770.4	937.3	1245.4	1109.3	929.6	857.7	834.6
80°	803.8	747.3	724.2	744.7	616.3	724.2	1073.4	970.7	788.4	706.2	672.8
82.5°	459.7	436.5	521.3	529.0	439.1	606.0	906.5	821.7	652.3	562.4	508.5
85°	213.1	228.5	315.9	318.4	272.2	416.0	593.2	462.2	346.7	287.6	274.8
87.5°	84.7	100.1	138.7	136.1	79.6	77.0	51.4	28.2	23.1	20.5	18.0
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)