

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: P642797

Luminaire Tested: GWS-SA6D-750-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642797
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-750-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36328.6 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

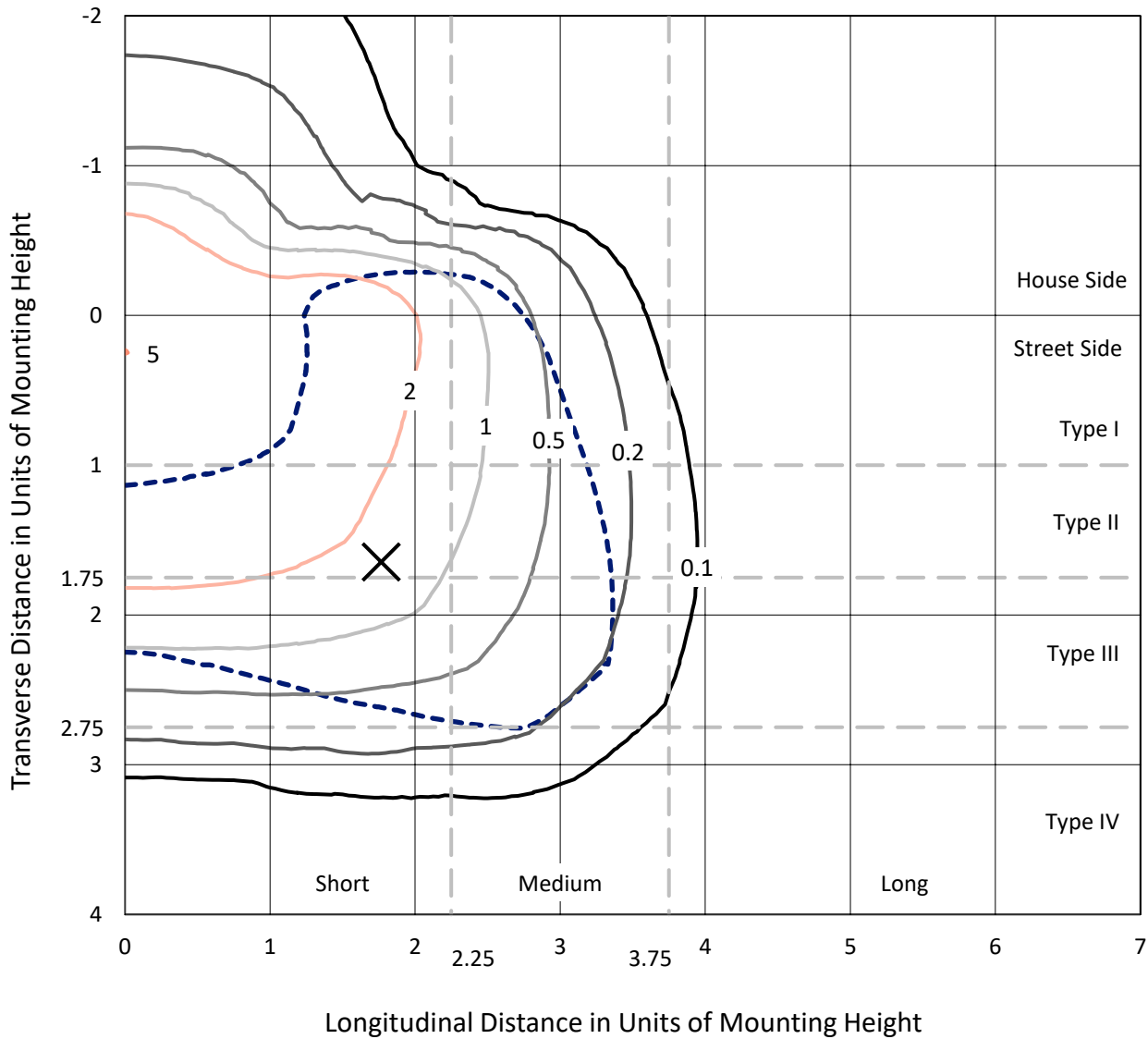
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

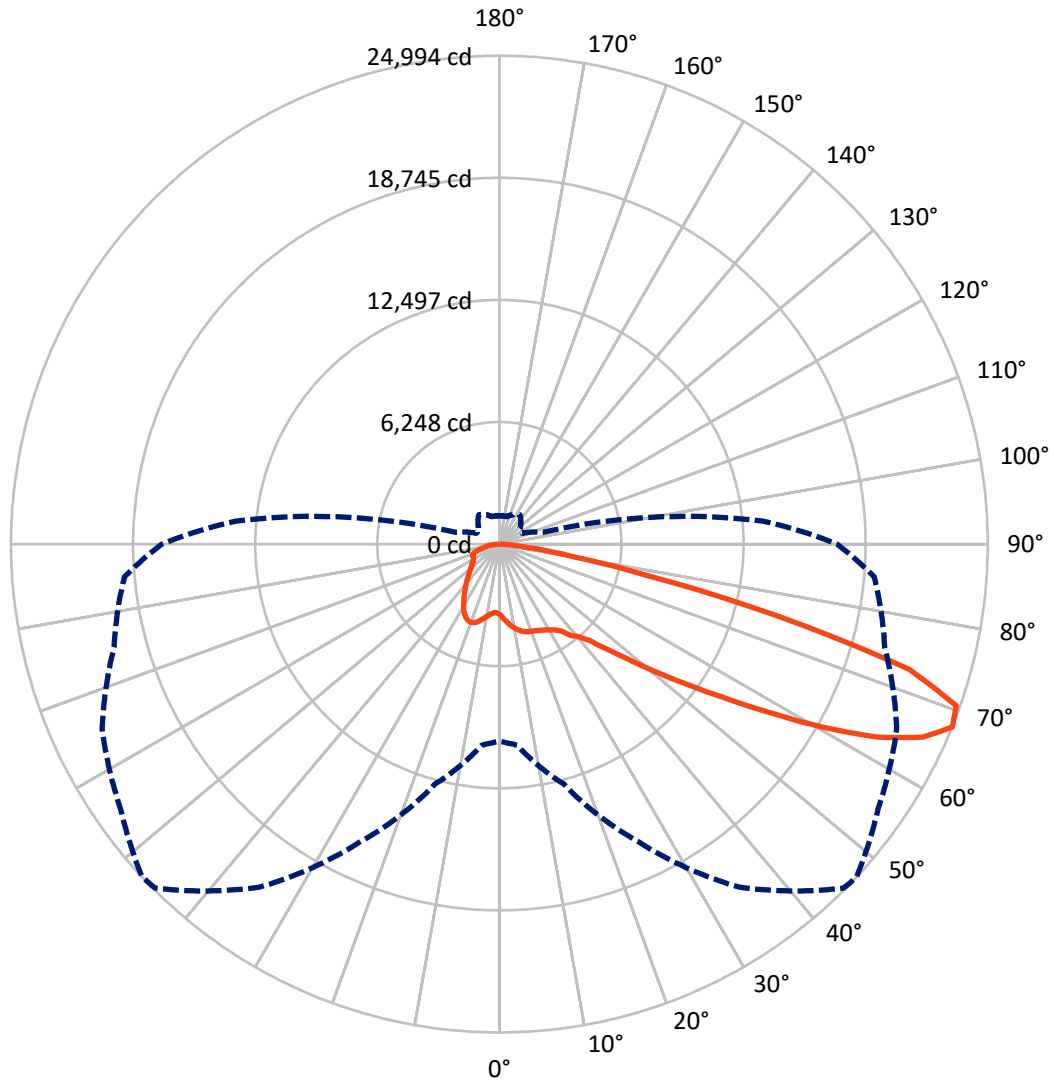
✕ Max cd
 - - - 1/2 Max cd



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

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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	8279.6	0.0	8279.6
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	28049.0	0.0	28049.0
	% Fixture	77.2	0.0	77.2
Total	Lumens	36328.6	0.0	36328.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.1	1.0
10°-20°	1226.2	3.4
20°-30°	2084.3	5.7
30°-40°	3053.2	8.4
40°-50°	4652.0	12.8
50°-60°	8323.4	22.9
60°-70°	11106.7	30.6
70°-80°	5022.7	13.8
80°-90°	492.1	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°	36328.6	100.0
0°-180°	36328.6	100.0

Coefficient of Utilization



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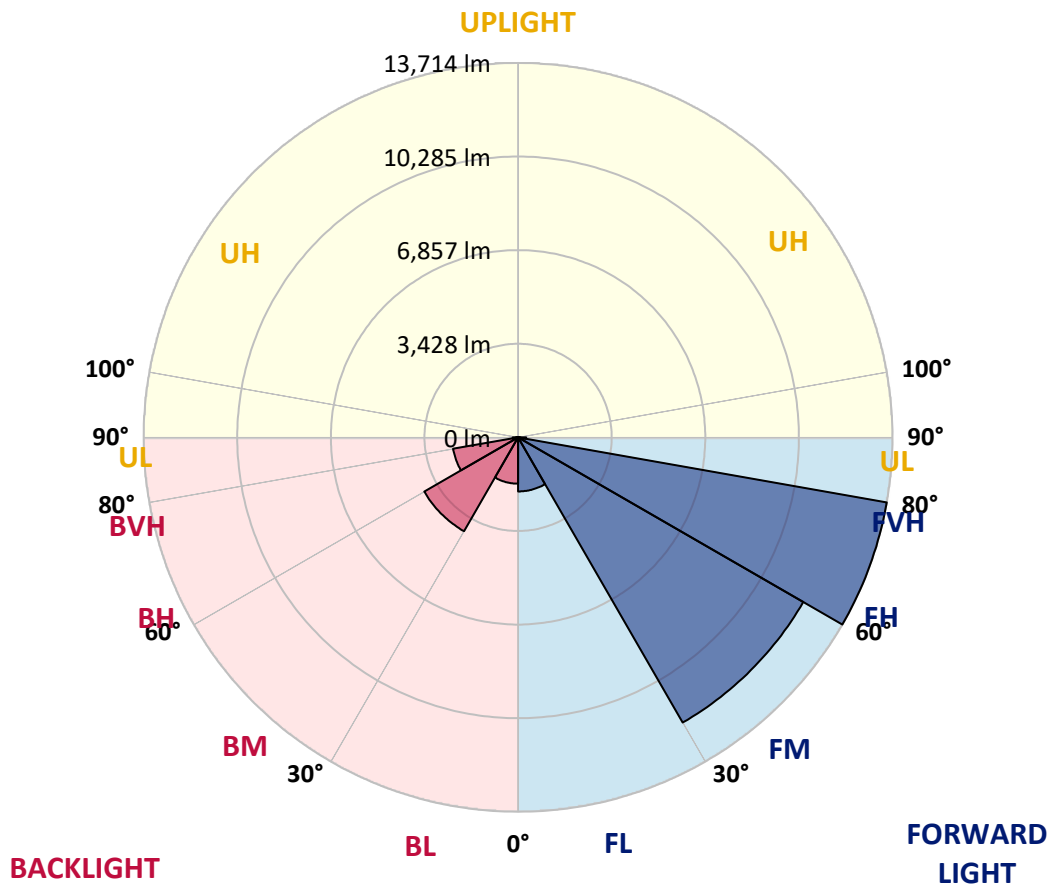
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1981.2	5.5			
FM (30°-60°)	12061.5	33.2			
FH (60°-80°)	13713.6	37.7			G5
FVH (80°-90°)	292.7	0.8			G3/500
BL (0°-30°)	1697.3	4.7	B3/2500		
BM (30°-60°)	3967.1	10.9	B3/5000		
BH (60°-80°)	2415.7	6.6	B3/2500		G3/2500
BVH (80°-90°)	199.4	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°	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3
2.5°	3840.4	3853.5	3850.9	3829.8	3816.7	3793.1	3795.7	3758.9	3703.8	3667.0	3625.0
5°	4179.2	4200.2	4174.0	4139.8	4087.3	4011.1	4003.2	3919.2	3814.1	3740.5	3664.4
7.5°	4473.4	4486.5	4455.0	4397.2	4321.1	4218.6	4200.2	4100.4	3969.1	3853.5	3743.2
10°	4701.9	4717.7	4675.7	4599.5	4499.7	4397.2	4384.1	4281.6	4142.4	4005.8	3866.6
12.5°	4896.3	4901.6	4856.9	4754.5	4646.8	4541.7	4528.6	4434.0	4305.3	4166.1	4013.7
15°	5009.3	5011.9	4956.7	4843.8	4741.3	4649.4	4641.5	4560.1	4441.9	4310.5	4147.7
17.5°	5001.4	5006.6	4967.2	4867.4	4778.1	4722.9	4715.1	4662.5	4570.6	4452.4	4289.5
20°	4904.2	4909.4	4883.2	4817.5	4770.2	4754.5	4757.1	4741.3	4686.2	4589.0	4423.5
22.5°	4828.0	4835.9	4812.3	4765.0	4759.7	4796.5	4804.4	4812.3	4786.0	4699.3	4539.1
25°	4864.8	4877.9	4841.2	4775.5	4786.0	4867.4	4883.2	4909.4	4888.4	4814.9	4675.7
27.5°	5119.6	5127.5	5032.9	4898.9	4867.4	4954.1	4977.7	5019.8	5004.0	4935.7	4828.0
30°	5710.6	5705.4	5503.1	5174.8	5043.4	5077.6	5096.0	5156.4	5161.6	5117.0	5014.5
32.5°	6543.3	6517.0	6204.5	5681.7	5300.8	5216.8	5237.8	5319.2	5379.6	5332.4	5193.1
35°	7423.3	7399.6	7055.5	6443.5	5776.3	5484.7	5461.1	5524.1	5616.1	5484.7	5285.1
37.5°	8261.2	8224.4	7872.5	7115.9	6362.1	5954.9	5920.8	5857.7	5802.6	5550.4	5398.0
40°	9191.1	9149.1	8841.7	7985.4	7008.2	6314.8	6228.1	5978.5	5928.6	5768.4	5692.2
42.5°	10184.0	10184.0	9929.2	9086.0	7788.4	6829.6	6716.7	6341.0	6393.6	6288.5	6199.2
45°	11176.9	11205.8	11003.6	10194.5	8831.2	7801.5	7620.3	7087.0	7213.1	7165.9	7121.2
47.5°	12022.8	12077.9	12038.5	11326.7	10107.8	8983.6	8707.8	8153.5	8424.1	8537.0	8663.1
50°	12934.3	12994.7	12955.3	12674.2	11602.5	10415.2	10168.3	9595.6	10060.6	10399.4	10811.8
52.5°	14287.1	14373.7	14045.4	13937.7	13417.6	12041.2	11820.5	11169.1	12012.3	12574.4	13493.8
55°	15429.7	15427.1	15311.5	15558.4	15366.7	14029.6	13785.3	13194.3	14271.3	14867.6	16212.5
57.5°	15960.3	16023.4	16420.0	17118.7	17502.2	16459.4	16225.6	15621.5	16695.8	17005.8	18458.4
60°	16233.5	16312.3	17079.3	18461.0	19493.3	19112.4	19020.5	18250.9	18855.0	18818.2	20352.3
62.5°	15850.0	16007.6	17239.6	19075.7	20914.4	21778.6	21749.7	20586.1	20691.1	20331.3	21526.5
65°	14090.0	14260.8	16194.1	18768.3	21726.1	23806.5	23814.4	22700.6	22101.7	21066.8	21329.4
67.5°	10076.3	10320.6	12711.0	16793.0	21439.8	24901.9	24993.8	23659.4	22432.7	20415.3	19259.5
70°	5492.6	5671.2	7544.1	12206.6	18860.3	24639.2	24809.9	23197.1	20972.2	17659.8	14825.5
72.5°	2495.4	2553.2	3509.4	6698.3	12884.4	21208.6	21923.1	20701.6	17223.8	13044.6	9427.5
75°	1142.6	1168.9	1528.8	3204.7	6732.4	14192.5	14694.2	15419.2	11986.0	8237.6	4914.7
77.5°	717.1	725.0	869.5	1465.7	3357.0	7084.4	7612.4	9180.6	7018.8	4076.8	2054.1
80°	422.9	430.8	541.1	793.3	1576.1	3241.4	3743.2	3630.2	3299.2	1759.9	935.1
82.5°	212.8	220.6	312.6	451.8	859.0	1289.7	1518.3	1526.2	1229.3	953.5	528.0
85°	76.2	78.8	102.4	178.6	365.1	425.5	475.4	580.5	601.5	554.3	254.8
87.5°	0.0	0.0	2.6	5.3	10.5	42.0	44.7	84.1	176.0	197.0	102.4
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°	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3
2.5°	3611.8	3572.4	3559.3	3546.2	3525.1	3517.3	3501.5	3485.7	3485.7	3470.0	3462.1
5°	3630.2	3577.7	3543.5	3527.8	3514.6	3522.5	3522.5	3527.8	3546.2	3535.6	3540.9
7.5°	3695.9	3635.5	3588.2	3575.0	3575.0	3606.6	3627.6	3653.8	3688.0	3693.3	3693.3
10°	3811.5	3740.5	3690.6	3682.7	3695.9	3740.5	3772.1	3803.6	3845.6	3848.2	3853.5
12.5°	3937.5	3866.6	3816.7	3827.2	3840.4	3898.1	3932.3	3958.6	4000.6	4000.6	3998.0
15°	4068.9	3990.1	3948.0	3969.1	4008.5	4074.1	4079.4	4082.0	4103.0	4097.8	4095.1
17.5°	4205.5	4121.4	4089.9	4121.4	4163.4	4195.0	4168.7	4131.9	4124.0	4113.5	4108.3
20°	4339.4	4252.8	4239.6	4263.3	4276.4	4250.1	4168.7	4100.4	4068.9	4053.1	4047.9
22.5°	4455.0	4381.5	4373.6	4373.6	4307.9	4216.0	4095.1	4003.2	3961.2	3940.2	3934.9
25°	4591.6	4523.3	4510.2	4439.3	4271.1	4103.0	3940.2	3856.1	3822.0	3811.5	3814.1
27.5°	4751.8	4704.6	4662.5	4460.3	4166.1	3903.4	3719.5	3682.7	3669.6	3682.7	3690.6
30°	4948.9	4901.6	4807.0	4434.0	3998.0	3643.3	3467.3	3464.7	3504.1	3538.3	3543.5
32.5°	5109.1	5088.1	4933.1	4349.9	3761.5	3357.0	3207.3	3217.8	3288.7	3336.0	3343.9
35°	5235.2	5269.3	5038.2	4210.7	3480.5	3086.5	2968.3	2973.5	3012.9	3078.6	3081.2
37.5°	5413.8	5529.4	5132.7	3998.0	3157.4	2852.7	2745.0	2705.6	2700.3	2718.7	2724.0
40°	5773.7	5947.0	5201.0	3688.0	2844.8	2642.5	2521.7	2445.5	2379.9	2330.0	2314.2
42.5°	6317.4	6517.0	5240.4	3312.4	2566.4	2435.0	2298.4	2201.2	2085.7	1980.6	1943.8
45°	7315.6	7381.2	5240.4	2913.1	2319.4	2240.6	2104.0	1988.5	1841.4	1717.9	1691.6
47.5°	8912.7	8702.5	5245.7	2527.0	2101.4	2069.9	1951.7	1820.4	1657.5	1555.1	1539.3
50°	11318.8	10580.7	5353.4	2206.5	1920.2	1925.4	1838.7	1694.3	1547.2	1471.0	1457.9
52.5°	14045.4	12894.9	5642.3	1970.1	1767.8	1807.2	1759.9	1620.7	1489.4	1423.7	1410.6
55°	16609.1	15022.5	5889.2	1802.0	1639.1	1707.4	1704.8	1576.1	1457.9	1392.2	1384.3
57.5°	18789.3	16480.4	5852.5	1665.4	1528.8	1615.5	1654.9	1547.2	1436.8	1381.7	1373.8
60°	20144.8	17252.7	5329.7	1539.3	1444.7	1549.8	1626.0	1539.3	1447.4	1434.2	1436.8
62.5°	20733.2	17110.8	4326.3	1444.7	1389.6	1518.3	1657.5	1594.5	1544.5	1576.1	1594.5
65°	19819.0	15892.0	3183.7	1373.8	1337.0	1526.2	1731.0	1681.1	1544.5	1565.6	1573.4
67.5°	17281.6	13527.9	2301.1	1302.9	1271.4	1549.8	1836.1	1668.0	1455.2	1455.2	1439.5
70°	12453.6	9729.6	1670.6	1232.0	1205.7	1515.7	1841.4	1578.7	1352.8	1344.9	1305.5
72.5°	7494.2	5739.5	1302.9	1153.2	1105.9	1344.9	1725.8	1473.6	1253.0	1187.3	1140.0
75°	3892.9	2876.3	1092.7	1066.5	948.3	1140.0	1578.7	1310.8	1071.7	1013.9	987.7
77.5°	1668.0	1344.9	937.8	950.9	788.0	958.8	1274.0	1134.8	950.9	877.3	853.7
80°	822.2	764.4	740.8	761.8	630.4	740.8	1098.0	992.9	806.4	722.4	688.2
82.5°	470.2	446.6	533.2	541.1	449.2	619.9	927.3	840.6	667.2	575.3	520.1
85°	218.0	233.8	323.1	325.7	278.4	425.5	606.8	472.8	354.6	294.2	281.1
87.5°	86.7	102.4	141.8	139.2	81.4	78.8	52.5	28.9	23.6	21.0	18.4
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)