

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: P637312

Luminaire Tested: GWS-SA4C-750-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-750-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17504.2 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 128.5
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

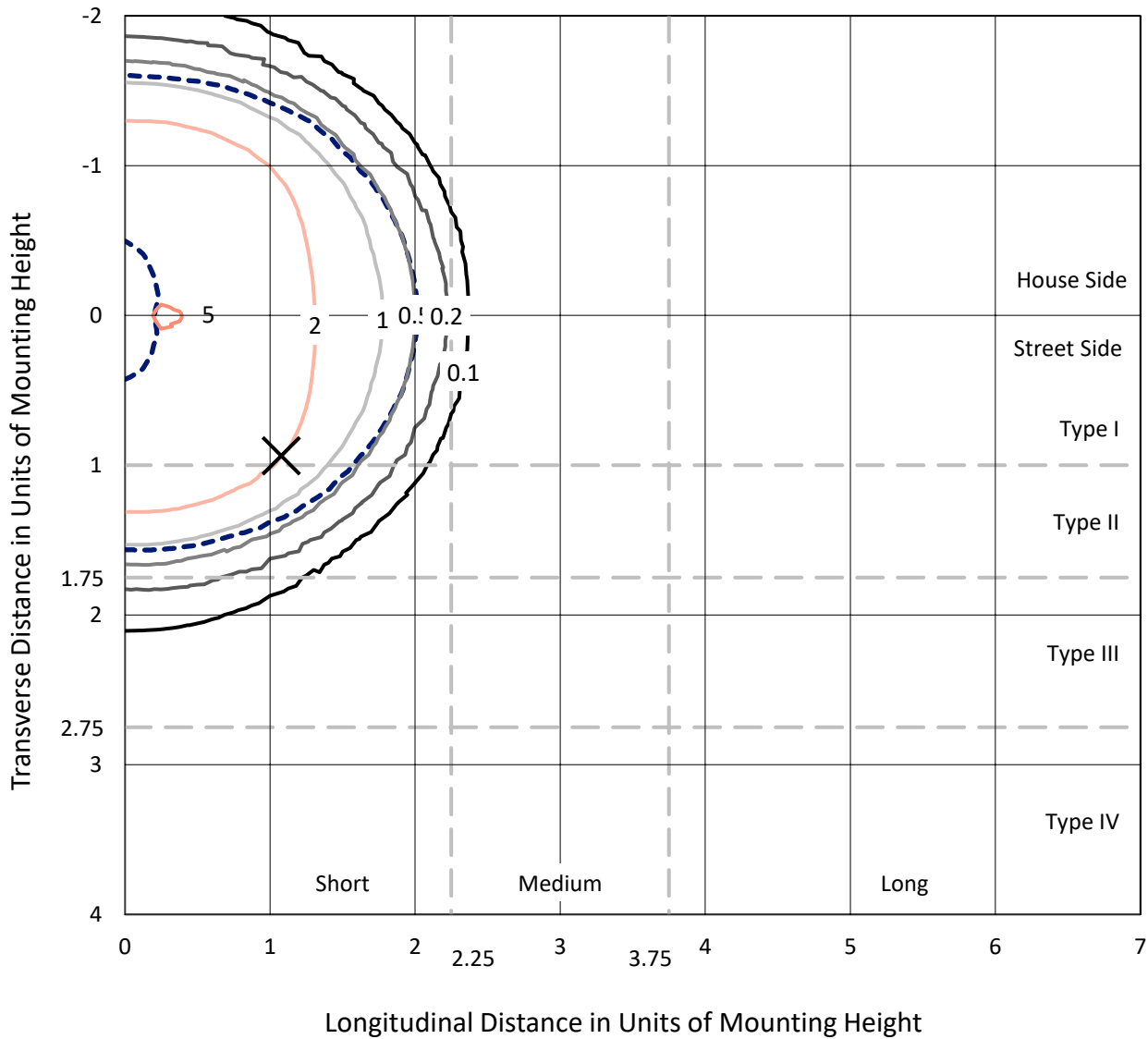


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Iso-Footcandle Lines of Horizontal Illumination

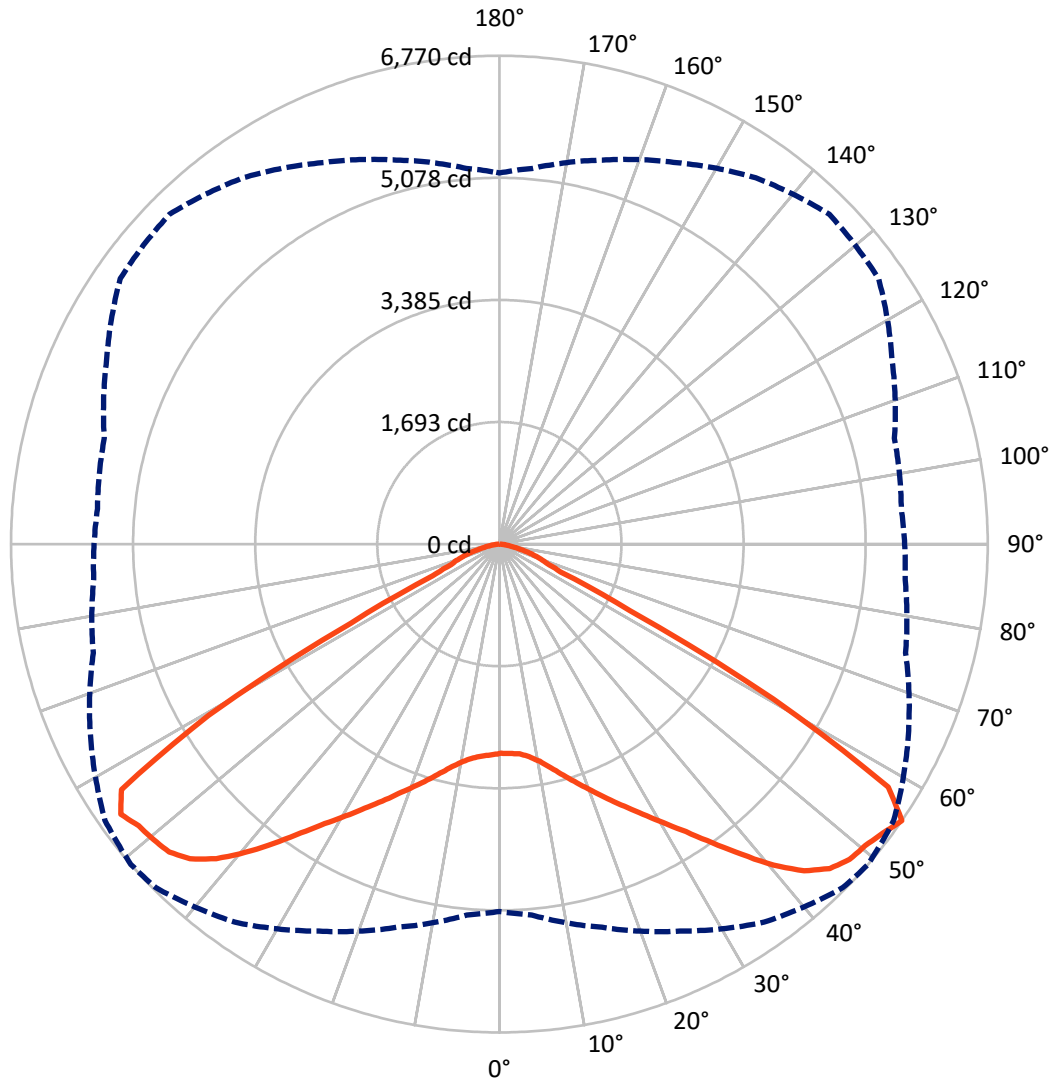
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8666.2	0.0	8666.2
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	8838.0	0.0	8838.0
	% Fixture	50.5	0.0	50.5
Total	Lumens	17504.2	0.0	17504.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.9	1.6
10°-20°	933.0	5.3
20°-30°	1777.1	10.2
30°-40°	3012.6	17.2
40°-50°	4533.7	25.9
50°-60°	4962.6	28.4
60°-70°	1569.2	9.0
70°-80°	376.6	2.2
80°-90°	56.5	0.3
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°	17504.2	100.0
0°-180°	17504.2	100.0

Coefficient of Utilization



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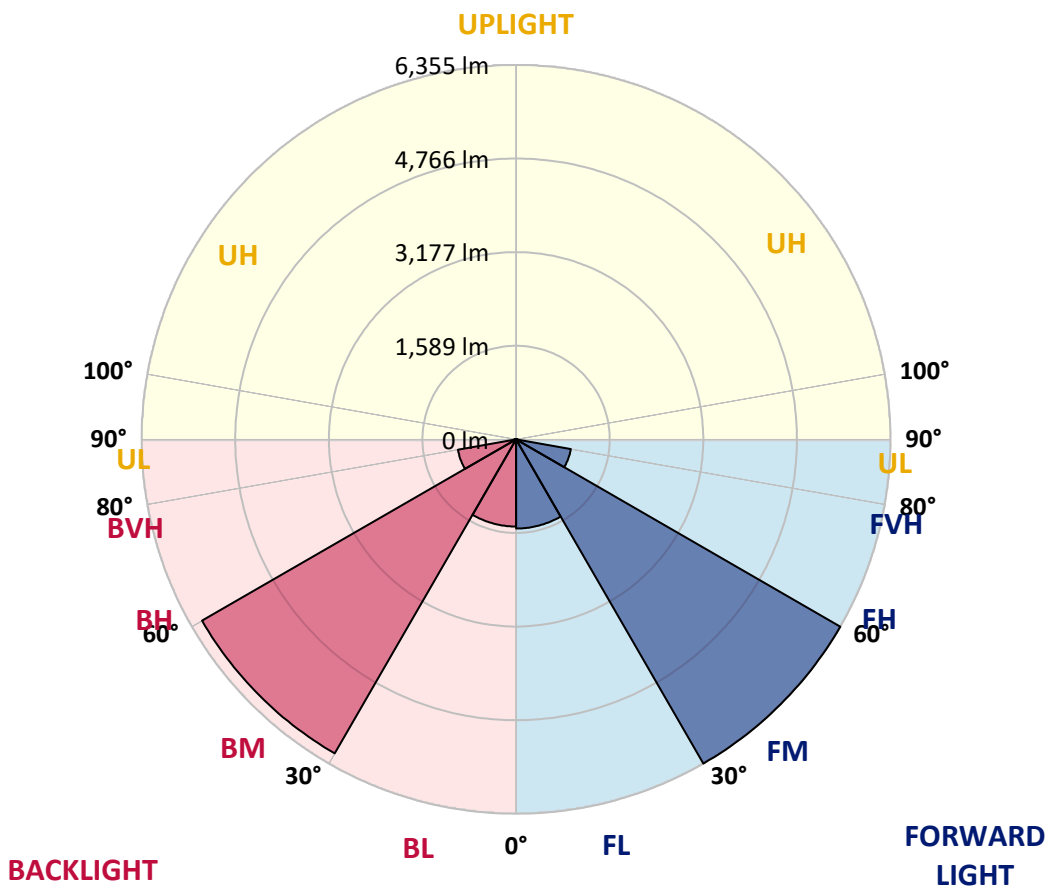
CATALOG NUMBER: GWS-SA4C-750-U-RW-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1513.4	8.6			
FM (30°-60°)	6354.5	36.3			
FH (60°-80°)	943.9	5.4			G1/1800
FVH (80°-90°)	26.2	0.1			G1/100
BL (0°-30°)	1479.6	8.5	B3/2500		
BM (30°-60°)	6154.4	35.2	B4/8500		
BH (60°-80°)	1001.9	5.7	B3/2500		G1/1800
BVH (80°-90°)	30.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	2899.7	2899.7	2899.7	2899.7	2899.7	2899.7	2899.7	2899.7	2899.7	2899.7	2899.7
2.5°	2857.0	2859.8	2865.5	2875.5	2885.4	2899.7	2905.4	2912.5	2911.1	2919.6	2919.6
5°	2842.7	2847.0	2855.5	2869.8	2886.9	2913.9	2921.0	2938.1	2955.2	2976.5	2983.7
7.5°	2859.8	2865.5	2875.5	2898.3	2923.9	2959.5	2973.7	3002.2	3034.9	3073.3	3089.0
10°	2892.6	2899.7	2916.8	2953.8	2995.1	3049.1	3062.0	3097.5	3150.2	3202.9	3234.2
12.5°	2929.6	2941.0	2972.3	3030.6	3091.8	3163.0	3183.0	3227.1	3284.0	3352.4	3395.1
15°	2972.3	2982.2	3030.6	3113.2	3208.6	3302.5	3325.3	3368.0	3432.1	3499.0	3558.8
17.5°	3062.0	3079.0	3136.0	3231.4	3342.4	3453.4	3479.0	3527.4	3578.7	3631.4	3688.3
20°	3184.4	3198.6	3271.2	3389.4	3520.3	3621.4	3647.0	3689.7	3713.9	3741.0	3789.4
22.5°	3306.8	3326.7	3409.3	3548.8	3702.5	3812.1	3832.1	3871.9	3854.8	3846.3	3877.6
25°	3459.1	3486.2	3567.3	3719.6	3876.2	4011.4	4027.1	4061.3	4032.8	3988.7	3987.2
27.5°	3648.4	3672.6	3756.6	3913.2	4068.4	4209.3	4239.2	4284.7	4222.1	4168.0	4129.6
30°	3873.4	3889.0	3981.5	4148.1	4307.5	4441.3	4479.8	4525.3	4478.3	4388.7	4350.2
32.5°	4135.3	4156.6	4263.4	4438.5	4580.8	4714.6	4753.1	4810.0	4758.8	4657.7	4609.3
35°	4449.9	4471.2	4583.7	4774.4	4919.6	5057.7	5084.8	5131.7	5067.7	4950.9	4912.5
37.5°	4791.5	4818.6	4960.9	5141.7	5294.0	5454.9	5456.3	5470.5	5379.4	5234.2	5191.5
40°	5175.9	5211.4	5353.8	5541.7	5725.3	5856.3	5854.9	5815.0	5661.3	5436.4	5370.9
42.5°	5555.9	5584.4	5728.2	5921.8	6105.4	6229.3	6192.2	6095.4	5873.4	5567.3	5480.5
45°	5830.7	5852.0	6002.9	6220.7	6407.2	6484.1	6417.2	6300.4	6000.1	5649.9	5521.8
47.5°	5960.2	5988.7	6141.0	6357.4	6568.0	6612.2	6532.5	6422.8	6074.1	5726.8	5554.5
50°	5890.5	5927.5	6099.7	6300.4	6538.2	6629.3	6572.3	6462.7	6152.4	5802.2	5612.9
52.5°	5709.7	5745.3	5963.1	6206.5	6475.5	6656.3	6654.9	6565.2	6242.1	5823.6	5615.7
55°	5091.9	5161.6	5500.4	5920.4	6398.6	6736.0	6770.2	6674.8	6256.3	5829.2	5645.6
57.5°	3313.9	3436.3	3758.0	4304.7	5264.1	6126.8	6357.4	6380.1	6153.8	5805.0	5651.3
60°	1383.6	1481.9	1736.7	2099.7	2892.6	3918.9	4365.9	4814.3	5355.2	5551.7	5598.6
62.5°	859.8	868.3	894.0	976.5	1241.3	1742.4	2029.9	2449.8	3254.1	3938.8	4254.9
65°	775.8	780.1	785.8	780.1	792.9	854.1	931.0	1077.6	1405.0	1745.2	2149.5
67.5°	683.3	689.0	693.2	689.0	693.2	696.1	704.6	717.4	777.2	825.6	862.6
70°	552.3	560.9	568.0	565.1	582.2	582.2	590.8	600.7	630.6	666.2	691.8
72.5°	421.4	414.2	422.8	425.6	441.3	449.8	462.6	474.0	508.2	529.5	562.3
75°	273.3	266.2	279.0	286.1	307.5	318.9	330.3	341.6	365.8	380.1	411.4
77.5°	148.0	146.6	159.4	169.4	192.2	206.4	214.9	223.5	243.4	247.7	267.6
80°	85.4	85.4	94.0	101.1	115.3	131.0	139.5	146.6	160.9	165.1	173.7
82.5°	47.0	47.0	51.2	55.5	66.9	75.4	82.6	88.3	101.1	105.3	109.6
85°	22.8	21.4	24.2	27.0	31.3	35.6	39.9	42.7	52.7	55.5	61.2
87.5°	2.8	2.8	2.8	4.3	5.7	8.5	10.0	10.0	15.7	18.5	21.4
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°	2899.7	2899.7	2899.7	2899.7	2899.7	2899.7	2899.7	2899.7	2899.7	2899.7	2899.7
2.5°	2928.1	2909.6	2921.0	2925.3	2925.3	2921.0	2902.5	2896.8	2888.3	2875.5	2875.5
5°	2993.6	2979.4	2982.2	2975.1	2958.0	2936.7	2902.5	2885.4	2871.2	2855.5	2854.1
7.5°	3106.1	3087.6	3084.7	3057.7	3012.1	2966.6	2915.3	2884.0	2862.7	2842.7	2841.3
10°	3252.7	3235.6	3214.3	3160.2	3093.3	3026.4	2956.6	2913.9	2882.6	2854.1	2852.7
12.5°	3416.4	3396.5	3356.6	3276.9	3192.9	3127.4	3047.7	2982.2	2935.3	2896.8	2889.7
15°	3594.3	3565.9	3497.5	3403.6	3321.0	3251.3	3165.9	3071.9	3000.7	2939.5	2932.4
17.5°	3731.0	3694.0	3620.0	3531.7	3463.4	3393.6	3282.6	3164.4	3062.0	2985.1	2973.7
20°	3825.0	3795.1	3711.1	3645.6	3605.7	3544.5	3415.0	3281.2	3165.9	3069.1	3063.4
22.5°	3911.8	3876.2	3793.6	3755.2	3755.2	3713.9	3590.1	3432.1	3296.8	3184.4	3170.1
25°	4010.0	3971.6	3908.9	3904.7	3924.6	3906.1	3756.6	3587.2	3429.2	3302.5	3279.8
27.5°	4146.7	4104.0	4066.9	4092.6	4121.0	4101.1	3934.6	3738.1	3571.6	3443.5	3423.5
30°	4364.5	4311.8	4277.6	4308.9	4364.5	4306.1	4125.3	3917.5	3749.5	3608.6	3598.6
32.5°	4617.8	4558.1	4522.5	4572.3	4622.1	4531.0	4351.7	4152.4	3975.8	3827.8	3810.7
35°	4922.5	4847.0	4794.4	4861.3	4912.5	4822.8	4644.9	4455.6	4259.1	4105.4	4082.6
37.5°	5192.9	5101.8	5066.2	5160.2	5228.5	5170.2	4976.6	4798.6	4583.7	4415.7	4405.7
40°	5389.4	5299.7	5274.1	5429.2	5548.8	5534.6	5360.9	5157.4	4955.2	4761.6	4743.1
42.5°	5474.8	5412.2	5417.9	5627.1	5812.2	5903.3	5748.1	5530.3	5335.3	5134.6	5121.8
45°	5493.3	5454.9	5500.4	5762.3	6005.8	6192.2	6059.9	5877.6	5657.0	5463.4	5457.7
47.5°	5513.2	5491.9	5561.6	5839.2	6128.2	6344.6	6270.5	6082.6	5859.1	5669.8	5655.6
50°	5560.2	5551.7	5630.0	5893.3	6186.5	6385.8	6301.9	6115.4	5886.2	5699.7	5665.5
52.5°	5574.4	5560.2	5672.7	5977.3	6283.3	6384.4	6203.6	5960.2	5729.6	5521.8	5486.2
55°	5618.6	5592.9	5669.8	6008.6	6417.2	6467.0	6197.9	5833.5	5511.8	5228.5	5144.5
57.5°	5630.0	5601.5	5651.3	5957.4	6272.0	6227.8	5447.7	4707.5	4101.1	3786.5	3822.1
60°	5568.7	5577.3	5491.9	5457.7	5030.7	4441.3	3335.3	2666.2	2094.0	1852.0	1904.6
62.5°	4239.2	4274.8	3983.0	3463.4	2663.4	2111.1	1396.5	1084.7	918.2	875.5	882.6
65°	2139.5	2187.9	1884.7	1558.7	1158.7	936.7	810.0	784.4	775.8	765.8	765.8
67.5°	847.0	861.2	849.8	795.7	740.2	720.3	714.6	711.8	701.8	696.1	697.5
70°	680.4	691.8	674.7	640.6	617.8	616.4	613.5	607.8	600.7	600.7	605.0
72.5°	555.2	566.6	542.4	521.0	503.9	491.1	484.0	479.7	469.8	469.8	474.0
75°	408.5	415.7	395.7	392.9	374.4	361.6	350.2	344.5	331.7	326.0	330.3
77.5°	271.9	270.5	260.5	260.5	253.4	237.7	224.9	212.1	195.0	183.6	186.5
80°	176.5	176.5	172.2	172.2	165.1	152.3	136.7	123.8	113.9	105.3	105.3
82.5°	112.5	111.0	109.6	108.2	105.3	92.5	81.1	72.6	65.5	59.8	61.2
85°	62.6	62.6	59.8	59.8	54.1	47.0	41.3	35.6	31.3	29.9	29.9
87.5°	21.4	21.4	19.9	19.9	17.1	12.8	10.0	8.5	7.1	5.7	7.1
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)