

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: P638395

Luminaire Tested: GWS-SA4E-760-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-760-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29822.4 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

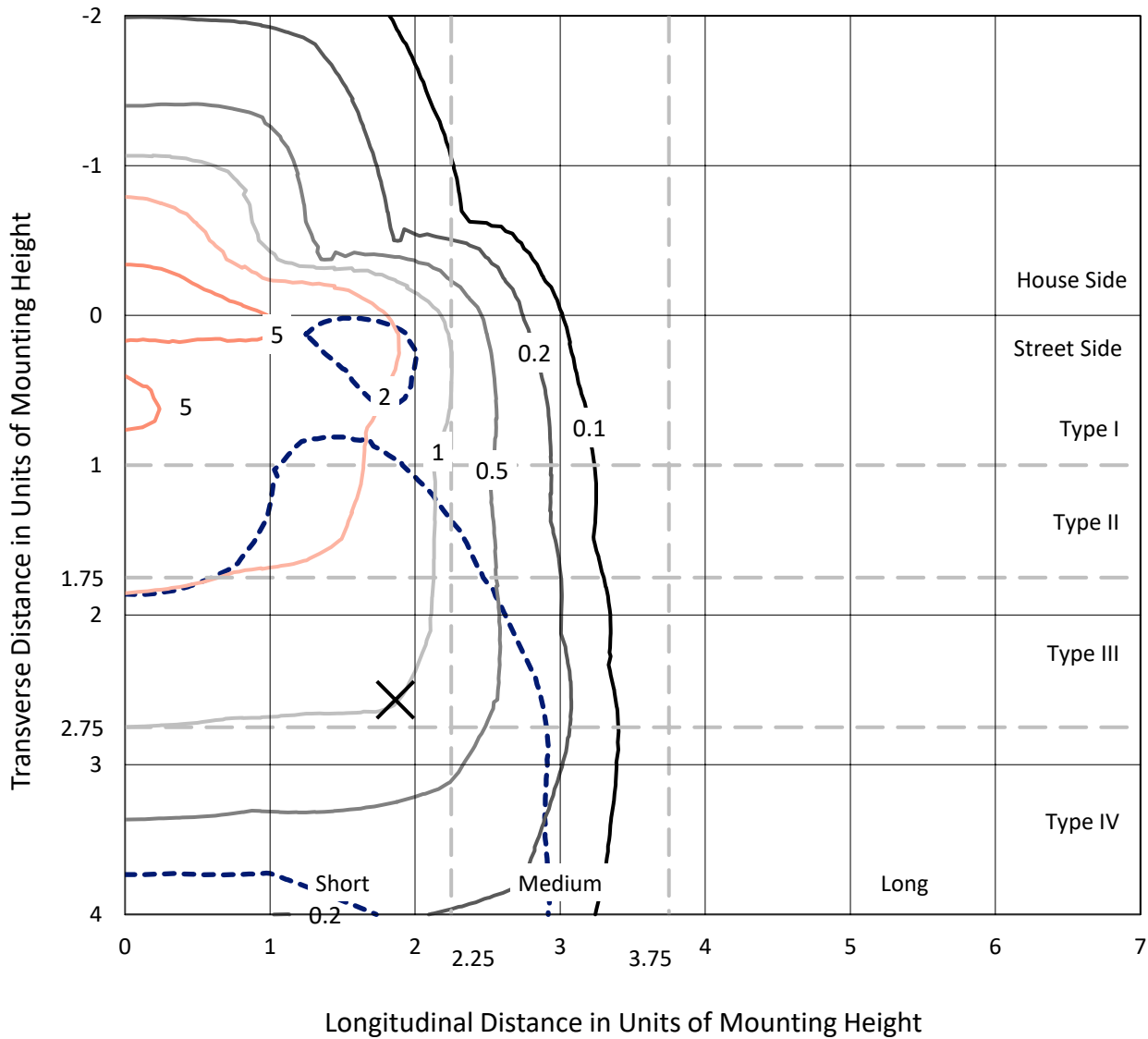
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

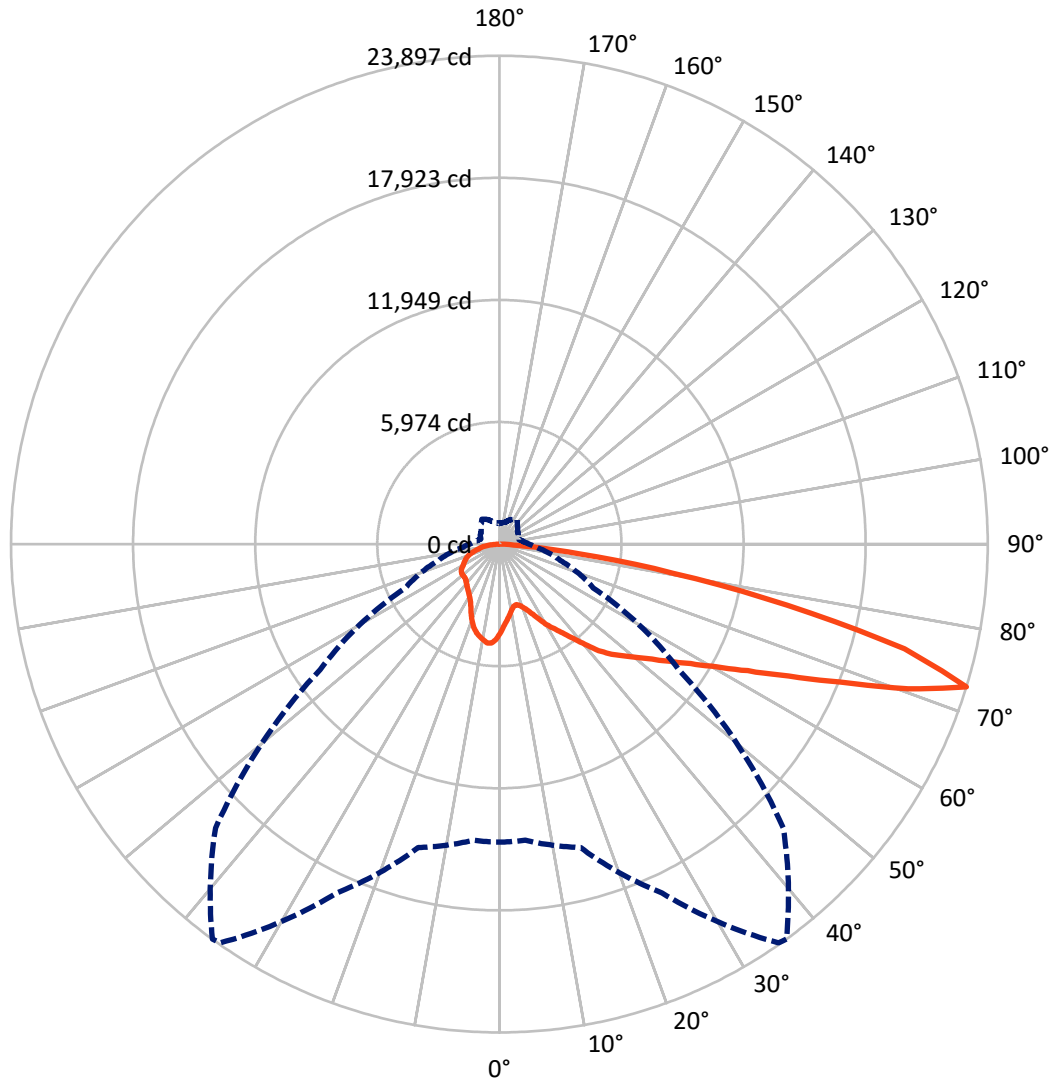
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6875.4	0.0	6875.4
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	22947.1	0.0	22947.1
	% Fixture	76.9	0.0	76.9
Total	Lumens	29822.4	0.0	29822.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.0	1.4
10°-20°	1151.1	3.9
20°-30°	1906.3	6.4
30°-40°	2854.8	9.6
40°-50°	4165.0	14.0
50°-60°	5928.0	19.9
60°-70°	7489.6	25.1
70°-80°	5337.0	17.9
80°-90°	582.6	2.0
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°	29822.4	100.0
0°-180°	29822.4	100.0

Coefficient of Utilization



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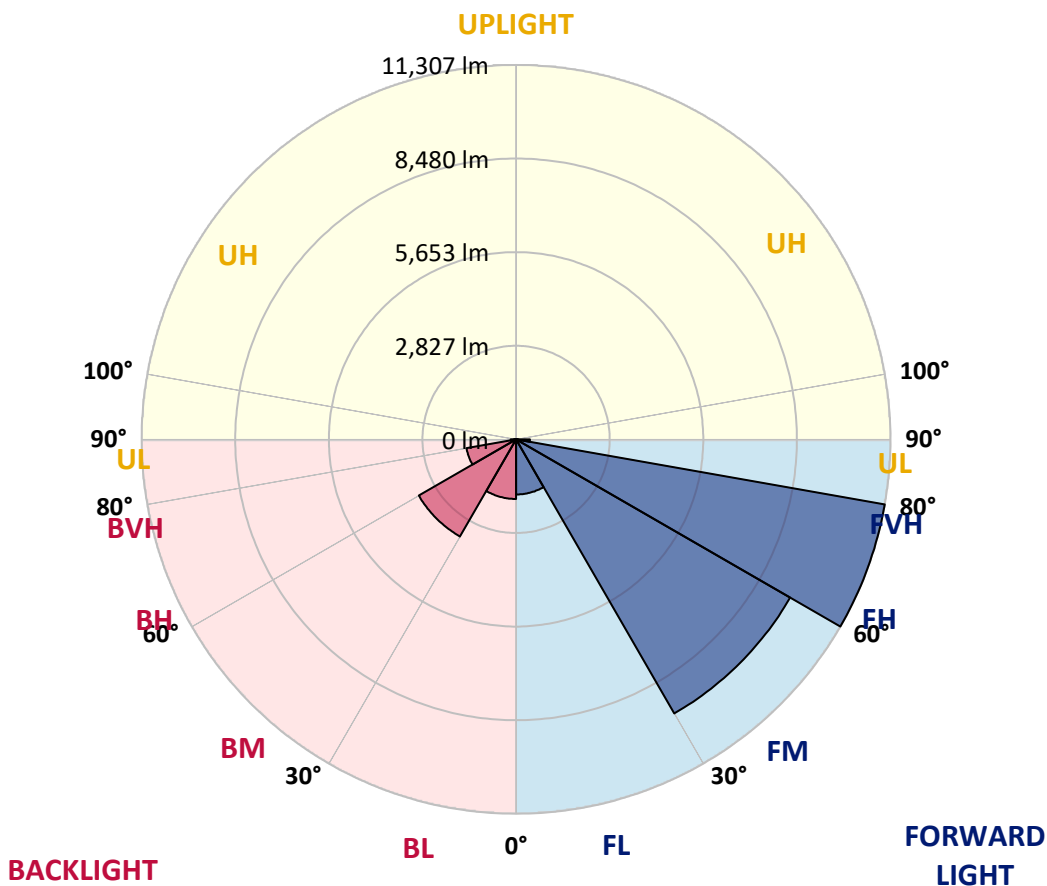
CATALOG NUMBER: GWS-SA4E-760-U-T4FT-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1664.9	5.6			
FM (30°-60°)	9557.3	32.0			
FH (60°-80°)	11306.7	37.9			G4/12000
FVH (80°-90°)	418.2	1.4			G3/500
BL (0°-30°)	1800.4	6.0	B3/2500		
BM (30°-60°)	3390.5	11.4	B3/5000		
BH (60°-80°)	1520.0	5.1	B3/2500		G3/2500
BVH (80°-90°)	164.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4364.6	4364.6	4364.6	4364.6	4364.6	4364.6	4364.6	4364.6	4364.6	4364.6	4364.6
2.5°	3981.7	3975.1	3961.8	4001.7	4041.5	4037.1	4092.4	4145.5	4203.1	4262.8	4342.5
5°	3663.0	3658.6	3647.5	3707.3	3767.0	3764.8	3855.6	3941.9	4059.2	4187.6	4346.9
7.5°	3344.3	3333.2	3348.7	3424.0	3508.1	3516.9	3640.9	3782.5	3953.0	4145.5	4371.3
10°	3063.2	3061.0	3067.6	3151.7	3277.9	3286.8	3446.1	3643.1	3868.9	4125.6	4426.6
12.5°	2990.2	2985.8	2968.0	3010.1	3105.3	3118.5	3293.4	3534.7	3811.3	4136.7	4501.9
15°	3109.7	3098.6	3036.7	3016.7	3063.2	3074.3	3222.6	3470.5	3778.1	4156.6	4597.0
17.5°	3315.5	3308.9	3191.6	3109.7	3140.7	3149.5	3260.2	3459.4	3769.3	4196.4	4714.3
20°	3616.5	3587.8	3404.1	3280.1	3280.1	3293.4	3359.8	3508.1	3780.3	4245.1	4847.1
22.5°	4014.9	3957.4	3698.4	3530.2	3486.0	3503.7	3532.4	3629.8	3826.8	4327.0	5013.1
25°	4462.0	4408.9	4101.3	3864.4	3802.5	3809.1	3784.8	3802.5	3928.6	4439.9	5219.0
27.5°	4937.9	4902.5	4574.9	4273.9	4176.5	4176.5	4090.2	4048.1	4070.3	4568.3	5449.2
30°	5362.8	5314.2	5037.5	4707.7	4579.3	4579.3	4415.5	4324.8	4271.7	4725.4	5756.8
32.5°	5586.4	5557.6	5373.9	5121.6	4964.4	4940.1	4798.5	4692.2	4568.3	4957.8	6172.9
35°	5878.5	5871.9	5761.2	5564.3	5365.1	5329.6	5232.3	5148.2	4933.5	5247.8	6726.2
37.5°	6246.0	6234.9	6217.2	6099.9	5860.8	5854.2	5767.9	5666.1	5387.2	5666.1	7396.9
40°	6657.6	6637.7	6615.6	6613.4	6469.5	6445.2	6438.5	6323.4	5933.9	6170.7	8096.3
42.5°	7224.2	7155.6	6947.6	7040.5	7146.8	7124.6	7208.7	7036.1	6615.6	6770.5	8758.1
45°	7921.4	7753.2	7341.5	7368.1	7635.9	7680.2	7972.3	7930.3	7365.9	7463.3	9455.2
47.5°	8339.7	8193.7	7810.8	7788.6	8122.8	8178.2	8813.4	8893.1	8173.7	8297.7	10316.2
50°	8682.8	8581.0	8266.7	8297.7	8651.8	8707.2	9647.8	9818.2	8935.1	9152.0	11316.6
52.5°	9096.7	8950.6	8707.2	8853.2	9287.0	9353.4	10575.2	10758.9	9621.2	10090.5	12352.5
55°	9329.1	9269.3	9273.8	9497.3	10041.8	10132.5	11546.8	11515.8	10249.8	10893.9	13131.6
57.5°	9864.7	9842.6	10046.2	10130.3	10922.7	11040.0	12518.5	12252.9	10820.9	11515.8	13505.6
60°	10809.8	10754.5	10931.5	11059.9	12011.6	12177.6	13603.0	12974.4	11208.2	11978.4	13379.4
62.5°	12137.8	12069.2	12075.8	12279.4	13470.2	13645.0	14809.2	13576.4	11327.7	12049.2	12580.4
65°	13788.9	13689.3	13576.4	13853.1	15406.8	15552.9	16121.7	14014.7	11042.2	11367.5	10911.6
67.5°	15530.8	15448.9	15316.1	15896.0	17914.5	18003.0	17593.6	13977.0	10136.9	9543.8	7653.6
70°	15632.6	15652.5	16281.1	18379.3	21188.0	21210.1	18985.7	13220.1	8209.2	6186.2	3813.5
72.5°	14583.5	14550.3	15369.2	18833.0	23821.8	23897.1	19643.1	10710.2	5072.9	3085.4	1788.4
75°	11845.6	11903.2	12764.1	16478.1	20417.8	20484.2	16013.3	6314.6	2410.3	1509.5	1144.3
77.5°	5099.5	5420.4	7118.0	11608.8	14623.3	14417.5	8253.4	2558.6	1285.9	1075.7	876.5
80°	1471.8	1598.0	2536.5	5520.0	8762.5	8607.6	3266.8	958.4	896.4	807.9	628.6
82.5°	475.9	526.8	929.6	2197.8	3926.4	3922.0	1239.5	566.6	586.5	548.9	405.0
85°	132.8	152.7	285.5	666.2	1215.1	1190.8	358.6	267.8	312.1	316.5	201.4
87.5°	0.0	0.0	2.2	4.4	4.4	4.4	8.9	39.8	90.7	115.1	81.9
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°	4364.6	4364.6	4364.6	4364.6	4364.6	4364.6	4364.6	4364.6	4364.6	4364.6	4364.6
2.5°	4391.2	4384.6	4475.3	4546.1	4612.5	4656.8	4670.1	4678.9	4696.6	4705.5	4696.6
5°	4422.2	4455.4	4605.9	4716.6	4805.1	4858.2	4860.4	4856.0	4869.3	4858.2	4851.6
7.5°	4488.6	4552.8	4743.1	4860.4	4918.0	4920.2	4867.1	4805.1	4774.1	4747.5	4738.7
10°	4577.1	4672.3	4880.3	4957.8	4940.1	4858.2	4740.9	4643.5	4588.2	4548.3	4539.5
12.5°	4698.9	4805.1	5002.1	4999.9	4889.2	4743.1	4605.9	4488.6	4408.9	4362.4	4346.9
15°	4813.9	4949.0	5090.6	4986.6	4811.7	4634.7	4457.6	4300.5	4194.2	4121.2	4107.9
17.5°	4955.6	5099.5	5154.8	4944.5	4714.3	4486.4	4249.5	4043.7	3899.8	3813.5	3806.9
20°	5119.4	5247.8	5185.8	4871.5	4588.2	4289.4	3968.5	3738.3	3583.3	3499.2	3505.9
22.5°	5309.7	5402.7	5194.6	4771.9	4413.3	4010.5	3652.0	3430.6	3326.6	3282.3	3284.5
25°	5513.3	5573.1	5179.1	4636.9	4145.5	3669.7	3326.6	3224.8	3215.9	3204.9	3209.3
27.5°	5754.6	5741.3	5132.7	4446.5	3784.8	3273.5	3098.6	3125.2	3160.6	3156.2	3160.6
30°	6077.7	5951.6	5072.9	4183.2	3355.4	2941.5	2963.6	3038.9	3085.4	3089.8	3103.1
32.5°	6447.4	6184.0	4977.7	3824.6	2945.9	2755.6	2837.5	2928.2	2983.5	2994.6	3012.3
35°	6887.8	6449.6	4809.5	3377.5	2651.5	2644.9	2720.2	2782.1	2841.9	2846.3	2846.3
37.5°	7394.7	6715.2	4541.7	2883.9	2470.1	2549.7	2620.6	2633.8	2649.3	2636.0	2642.7
40°	7859.5	6971.9	4161.0	2434.6	2321.8	2465.6	2525.4	2481.1	2432.4	2399.2	2405.9
42.5°	8249.0	7146.8	3656.4	2120.3	2171.3	2390.4	2436.9	2346.1	2250.9	2189.0	2197.8
45°	8687.2	7308.3	3063.2	1907.9	2042.9	2337.3	2368.2	2250.9	2129.2	2036.2	2023.0
47.5°	9291.5	7638.1	2536.5	1759.6	1952.1	2308.5	2359.4	2200.0	2040.7	1901.2	1885.7
50°	10037.3	8105.1	2096.0	1662.2	1910.1	2293.0	2357.2	2144.7	1954.4	1790.6	1779.5
52.5°	10851.8	8561.1	1770.6	1586.9	1868.0	2246.5	2346.1	2082.7	1863.6	1686.5	1673.3
55°	11394.1	8740.4	1551.5	1516.1	1799.4	2173.5	2301.8	2023.0	1726.4	1564.8	1544.9
57.5°	11553.5	8510.2	1398.8	1451.9	1710.9	2071.7	2217.7	1896.8	1642.3	1513.9	1498.4
60°	11279.0	7930.3	1303.6	1398.8	1613.5	1941.1	2071.7	1823.8	1575.9	1460.8	1449.7
62.5°	10504.4	7036.1	1230.6	1343.5	1513.9	1803.8	1978.7	1735.2	1502.8	1412.1	1396.6
65°	8946.2	5770.1	1170.8	1285.9	1418.7	1673.3	1876.9	1646.7	1423.2	1354.5	1336.8
67.5°	6257.0	4052.6	1106.7	1217.3	1323.6	1547.1	1770.6	1564.8	1341.3	1290.4	1272.7
70°	3058.8	2149.1	1029.2	1137.6	1221.7	1418.7	1664.4	1465.2	1232.8	1204.0	1179.7
72.5°	1456.4	1201.8	938.4	1029.2	1082.3	1248.3	1487.3	1321.3	1104.4	1042.5	1000.4
75°	976.1	854.3	818.9	900.8	914.1	1046.9	1274.9	1139.9	973.9	903.0	867.6
77.5°	739.2	652.9	688.3	761.4	734.8	861.0	1049.1	1015.9	878.7	814.5	796.8
80°	520.1	475.9	546.7	591.0	571.0	732.6	945.1	869.8	723.8	652.9	639.6
82.5°	327.6	318.7	402.8	409.5	416.1	579.9	776.9	683.9	562.2	462.6	429.4
85°	163.8	181.5	241.3	241.3	239.0	298.8	442.7	385.1	303.2	241.3	234.6
87.5°	55.3	77.5	104.0	84.1	64.2	50.9	57.5	70.8	75.3	73.0	73.0
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)