

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: P638230

Luminaire Tested: GWS-SA4E-735-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638230
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-735-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29154.3 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

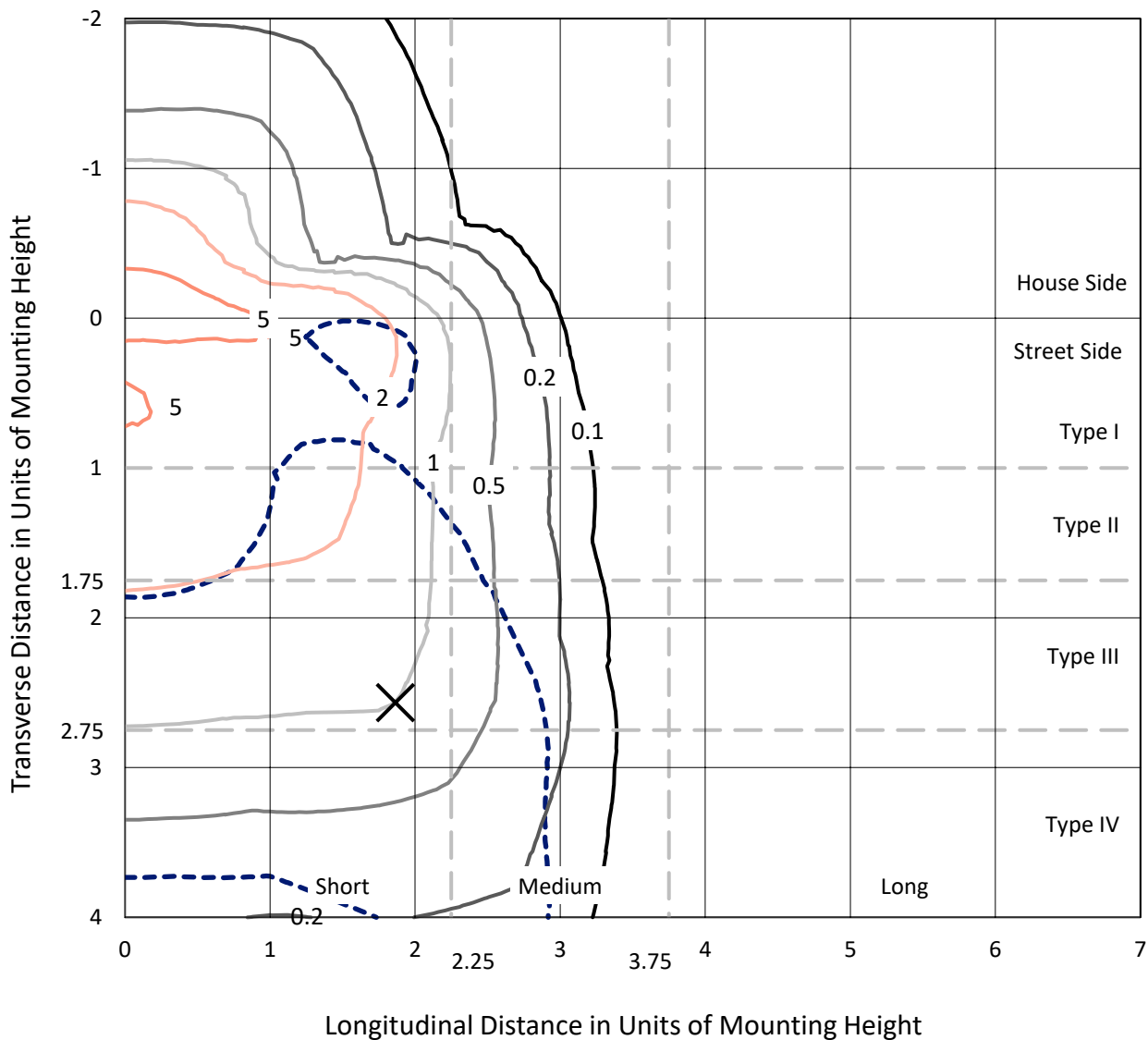
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

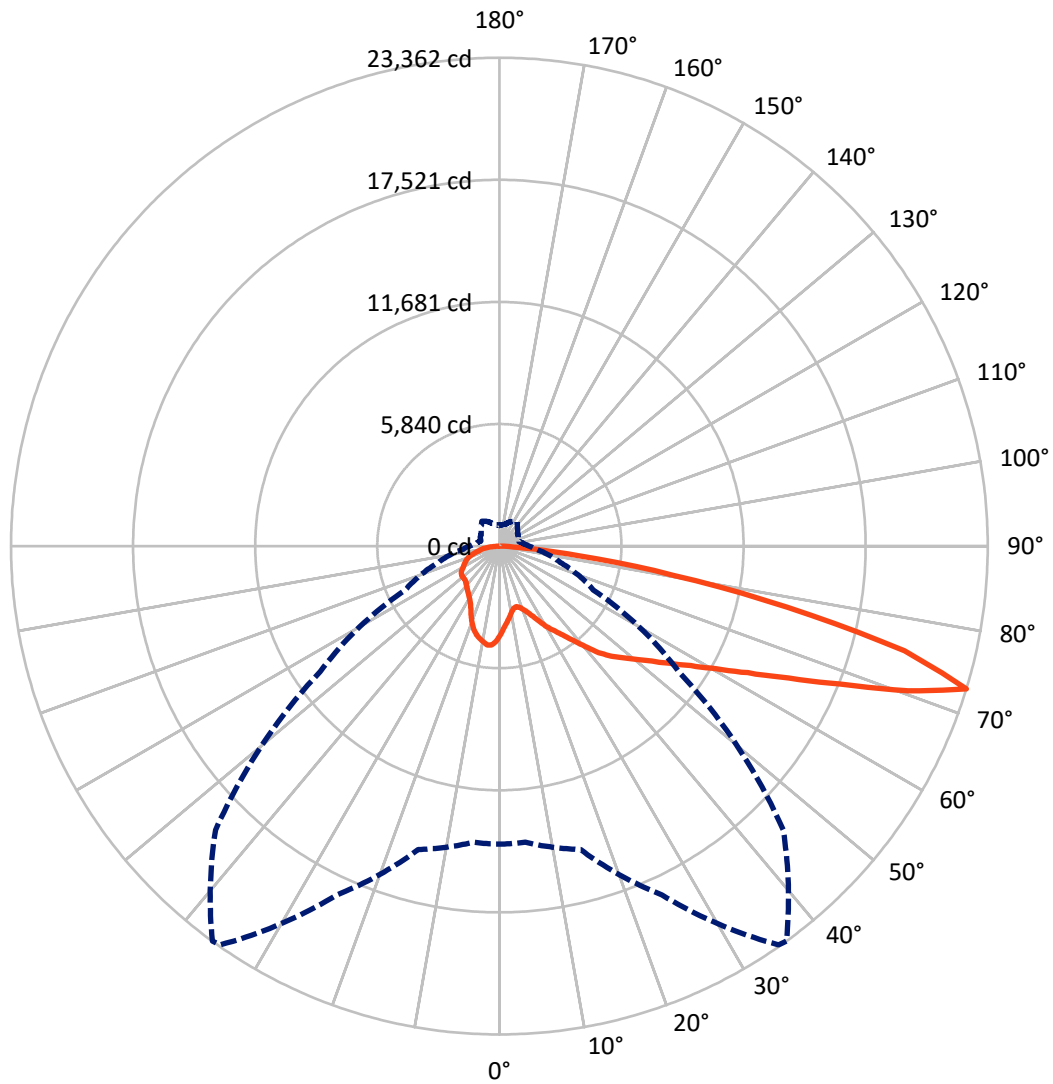
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	6721.3	0.0	6721.3
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	22433.0	0.0	22433.0
	% Fixture	76.9	0.0	76.9
Total	Lumens	29154.3	0.0	29154.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.8	1.4
10°-20°	1125.3	3.9
20°-30°	1863.6	6.4
30°-40°	2790.9	9.6
40°-50°	4071.7	14.0
50°-60°	5795.2	19.9
60°-70°	7321.8	25.1
70°-80°	5217.4	17.9
80°-90°	569.6	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°	29154.3	100.0
0°-180°	29154.3	100.0

Coefficient of Utilization



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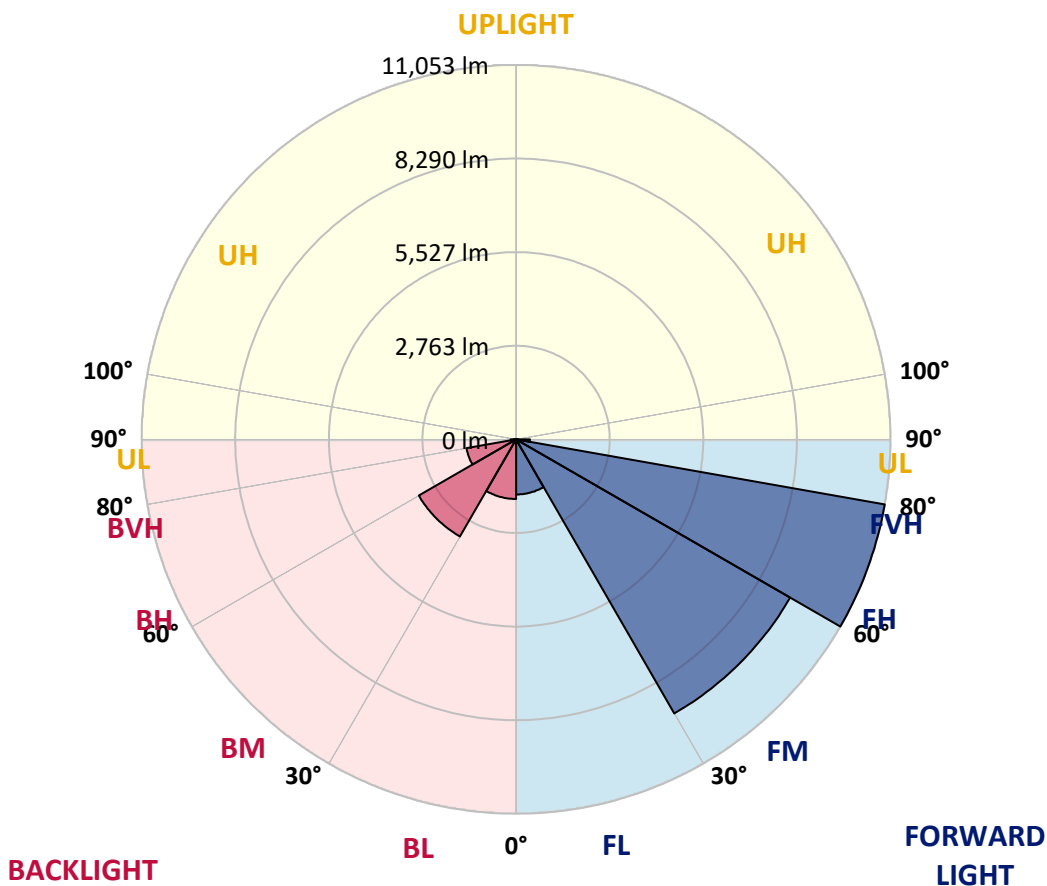
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1627.6	5.6			
FM (30°-60°)	9343.2	32.0			
FH (60°-80°)	11053.3	37.9			G4/12000
FVH (80°-90°)	408.8	1.4			G3/500
BL (0°-30°)	1760.1	6.0	B3/2500		
BM (30°-60°)	3314.6	11.4	B3/5000		
BH (60°-80°)	1485.9	5.1	B3/2500		G3/2500
BVH (80°-90°)	160.8	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°	4266.9	4266.9	4266.9	4266.9	4266.9	4266.9	4266.9	4266.9	4266.9	4266.9	4266.9
2.5°	3892.5	3886.0	3873.1	3912.0	3951.0	3946.6	4000.7	4052.7	4108.9	4167.3	4245.2
5°	3581.0	3576.6	3565.8	3624.2	3682.7	3680.5	3769.2	3853.6	3968.3	4093.8	4249.6
7.5°	3269.4	3258.6	3273.7	3347.3	3429.5	3438.2	3559.3	3697.8	3864.4	4052.7	4273.4
10°	2994.6	2992.4	2998.9	3081.1	3204.5	3213.1	3368.9	3561.5	3782.2	4033.2	4327.4
12.5°	2923.2	2918.9	2901.6	2942.7	3035.7	3048.7	3219.6	3455.5	3725.9	4044.0	4401.0
15°	3040.0	3029.2	2968.6	2949.2	2994.6	3005.4	3150.4	3392.7	3693.5	4063.5	4494.1
17.5°	3241.3	3234.8	3120.1	3040.0	3070.3	3079.0	3187.2	3381.9	3684.8	4102.4	4608.7
20°	3535.5	3507.4	3327.8	3206.6	3206.6	3219.6	3284.5	3429.5	3695.6	4150.0	4738.6
22.5°	3925.0	3868.7	3615.6	3451.1	3407.9	3425.2	3453.3	3548.5	3741.1	4230.1	4900.8
25°	4362.1	4310.1	4009.4	3777.9	3717.3	3723.8	3700.0	3717.3	3840.6	4340.4	5102.1
27.5°	4827.3	4792.6	4472.4	4178.1	4082.9	4082.9	3998.6	3957.4	3979.1	4465.9	5327.1
30°	5242.7	5195.1	4924.6	4602.2	4476.7	4476.7	4316.6	4227.9	4176.0	4619.5	5627.8
32.5°	5461.2	5433.1	5253.5	5006.9	4853.2	4829.4	4691.0	4587.1	4465.9	4846.7	6034.6
35°	5746.8	5740.4	5632.2	5439.6	5244.9	5210.2	5115.0	5032.8	4822.9	5130.2	6575.6
37.5°	6106.0	6095.2	6077.9	5963.2	5729.5	5723.0	5638.7	5539.1	5266.5	5539.1	7231.2
40°	6508.5	6489.0	6467.4	6465.2	6324.6	6300.8	6294.3	6181.8	5800.9	6032.5	7914.9
42.5°	7062.4	6995.3	6791.9	6882.8	6986.7	6965.0	7047.2	6878.5	6467.4	6618.8	8561.9
45°	7744.0	7579.5	7177.1	7203.0	7464.8	7508.1	7793.7	7752.6	7200.9	7296.1	9243.4
47.5°	8152.9	8010.1	7635.8	7614.1	7940.9	7995.0	8615.9	8693.8	7990.6	8111.8	10085.1
50°	8488.3	8388.8	8081.5	8111.8	8458.0	8512.1	9431.7	9598.3	8735.0	8947.0	11063.1
52.5°	8892.9	8750.1	8512.1	8654.9	9079.0	9143.9	10338.3	10517.9	9405.7	9864.4	12075.7
55°	9120.1	9061.7	9066.0	9284.5	9816.8	9905.5	11288.1	11257.9	10020.2	10649.8	12837.4
57.5°	9643.7	9622.1	9821.1	9903.4	10678.0	10792.7	12238.0	11978.4	10578.4	11257.9	13203.0
60°	10567.6	10513.5	10686.6	10812.1	11742.5	11904.8	13298.2	12683.7	10957.1	11710.1	13079.7
62.5°	11865.9	11798.8	11805.3	12004.3	13168.4	13339.4	14477.5	13272.3	11073.9	11779.3	12298.6
65°	13480.0	13382.6	13272.3	13542.7	15061.7	15204.5	15760.6	13700.7	10794.8	11112.9	10667.2
67.5°	15182.8	15102.8	14973.0	15539.9	17513.2	17599.7	17199.4	13663.9	9909.9	9330.0	7482.2
70°	15282.4	15301.9	15916.3	17967.6	20713.3	20735.0	18560.4	12923.9	8025.2	6047.6	3728.1
72.5°	14256.8	14224.3	15024.9	18411.1	23288.2	23361.7	19203.0	10470.3	4959.3	3016.2	1748.3
75°	11580.2	11636.5	12478.2	16108.9	19960.3	20025.3	15654.5	6173.1	2356.3	1475.7	1118.6
77.5°	4985.2	5299.0	6958.5	11348.7	14295.7	14094.5	8068.5	2501.3	1257.1	1051.6	856.8
80°	1438.9	1562.2	2479.6	5396.3	8566.2	8414.7	3193.7	936.9	876.3	789.8	614.5
82.5°	465.2	515.0	908.8	2148.6	3838.4	3834.1	1211.7	553.9	573.4	536.6	396.0
85°	129.8	149.3	279.1	651.3	1187.9	1164.1	350.5	261.8	305.1	309.4	196.9
87.5°	0.0	0.0	2.2	4.3	4.3	4.3	8.7	38.9	88.7	112.5	80.1
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°	4266.9	4266.9	4266.9	4266.9	4266.9	4266.9	4266.9	4266.9	4266.9	4266.9	4266.9
2.5°	4292.8	4286.3	4375.0	4444.3	4509.2	4552.5	4565.5	4574.1	4591.4	4600.1	4591.4
5°	4323.1	4355.6	4502.7	4610.9	4697.4	4749.4	4751.5	4747.2	4760.2	4749.4	4742.9
7.5°	4388.0	4450.8	4636.9	4751.5	4807.8	4810.0	4758.0	4697.4	4667.2	4641.2	4632.5
10°	4474.6	4567.6	4771.0	4846.7	4829.4	4749.4	4634.7	4539.5	4485.4	4446.5	4437.8
12.5°	4593.6	4697.4	4890.0	4887.9	4779.7	4636.9	4502.7	4388.0	4310.1	4264.7	4249.6
15°	4706.1	4838.1	4976.6	4874.9	4703.9	4530.8	4357.7	4204.1	4100.3	4028.9	4015.9
17.5°	4844.6	4985.2	5039.3	4833.8	4608.7	4385.9	4154.3	3953.1	3812.5	3728.1	3721.6
20°	5004.7	5130.2	5069.6	4762.4	4485.4	4193.3	3879.6	3654.5	3503.1	3420.8	3427.3
22.5°	5190.8	5281.6	5078.3	4665.0	4314.5	3920.7	3570.1	3353.8	3252.1	3208.8	3211.0
25°	5389.8	5448.3	5063.1	4533.0	4052.7	3587.5	3252.1	3152.5	3143.9	3133.1	3137.4
27.5°	5625.7	5612.7	5017.7	4346.9	3700.0	3200.1	3029.2	3055.2	3089.8	3085.5	3089.8
30°	5941.6	5818.3	4959.3	4089.4	3280.2	2875.6	2897.2	2970.8	3016.2	3020.6	3033.5
32.5°	6302.9	6045.4	4866.2	3738.9	2879.9	2693.8	2773.9	2862.6	2916.7	2927.5	2944.8
35°	6733.5	6305.1	4701.8	3301.8	2592.1	2585.6	2659.2	2719.8	2778.2	2782.5	2782.5
37.5°	7229.0	6564.7	4440.0	2819.3	2414.7	2492.6	2561.8	2574.8	2590.0	2577.0	2583.5
40°	7683.4	6815.7	4067.8	2380.1	2269.7	2410.4	2468.8	2425.5	2377.9	2345.5	2352.0
42.5°	8064.2	6986.7	3574.5	2072.8	2122.6	2336.8	2382.3	2293.5	2200.5	2139.9	2148.6
45°	8492.6	7144.6	2994.6	1865.1	1997.1	2284.9	2315.2	2200.5	2081.5	1990.6	1977.6
47.5°	9083.3	7467.0	2479.6	1720.2	1908.4	2256.8	2306.5	2150.7	1995.0	1858.6	1843.5
50°	9812.5	7923.6	2049.0	1625.0	1867.3	2241.6	2304.4	2096.6	1910.6	1750.5	1739.6
52.5°	10608.7	8369.3	1731.0	1551.4	1826.2	2196.2	2293.5	2036.1	1821.9	1648.8	1635.8
55°	11138.8	8544.5	1516.8	1482.2	1759.1	2124.8	2250.3	1977.6	1687.7	1529.8	1510.3
57.5°	11294.6	8319.5	1367.5	1419.4	1672.6	2025.2	2168.1	1854.3	1605.5	1480.0	1464.8
60°	11026.3	7752.6	1274.4	1367.5	1577.4	1897.6	2025.2	1782.9	1540.6	1428.1	1417.2
62.5°	10269.0	6878.5	1203.0	1313.4	1480.0	1763.4	1934.4	1696.4	1469.2	1380.5	1365.3
65°	8745.8	5640.8	1144.6	1257.1	1386.9	1635.8	1834.8	1609.8	1391.3	1324.2	1306.9
67.5°	6116.8	3961.8	1081.9	1190.0	1293.9	1512.4	1731.0	1529.8	1311.2	1261.5	1244.1
70°	2990.3	2101.0	1006.1	1112.2	1194.4	1386.9	1627.1	1432.4	1205.2	1177.1	1153.3
72.5°	1423.7	1174.9	917.4	1006.1	1058.1	1220.3	1454.0	1291.7	1079.7	1019.1	978.0
75°	954.2	835.2	800.6	880.6	893.6	1023.4	1246.3	1114.3	952.0	882.8	848.2
77.5°	722.7	638.3	672.9	744.3	718.4	841.7	1025.6	993.1	859.0	796.3	778.9
80°	508.5	465.2	534.4	577.7	558.2	716.2	923.9	850.3	707.5	638.3	625.3
82.5°	320.2	311.6	393.8	400.3	406.8	566.9	759.5	668.6	549.6	452.2	419.8
85°	160.1	177.4	235.8	235.8	233.7	292.1	432.7	376.5	296.4	235.8	229.4
87.5°	54.1	75.7	101.7	82.2	62.7	49.8	56.3	69.2	73.6	71.4	71.4
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)