

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: P638835

Luminaire Tested: GWS-SA4F-750-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638835
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-SA4F-750-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33617.9 lumens
Efficiency: N/A
Efficacy: 149.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

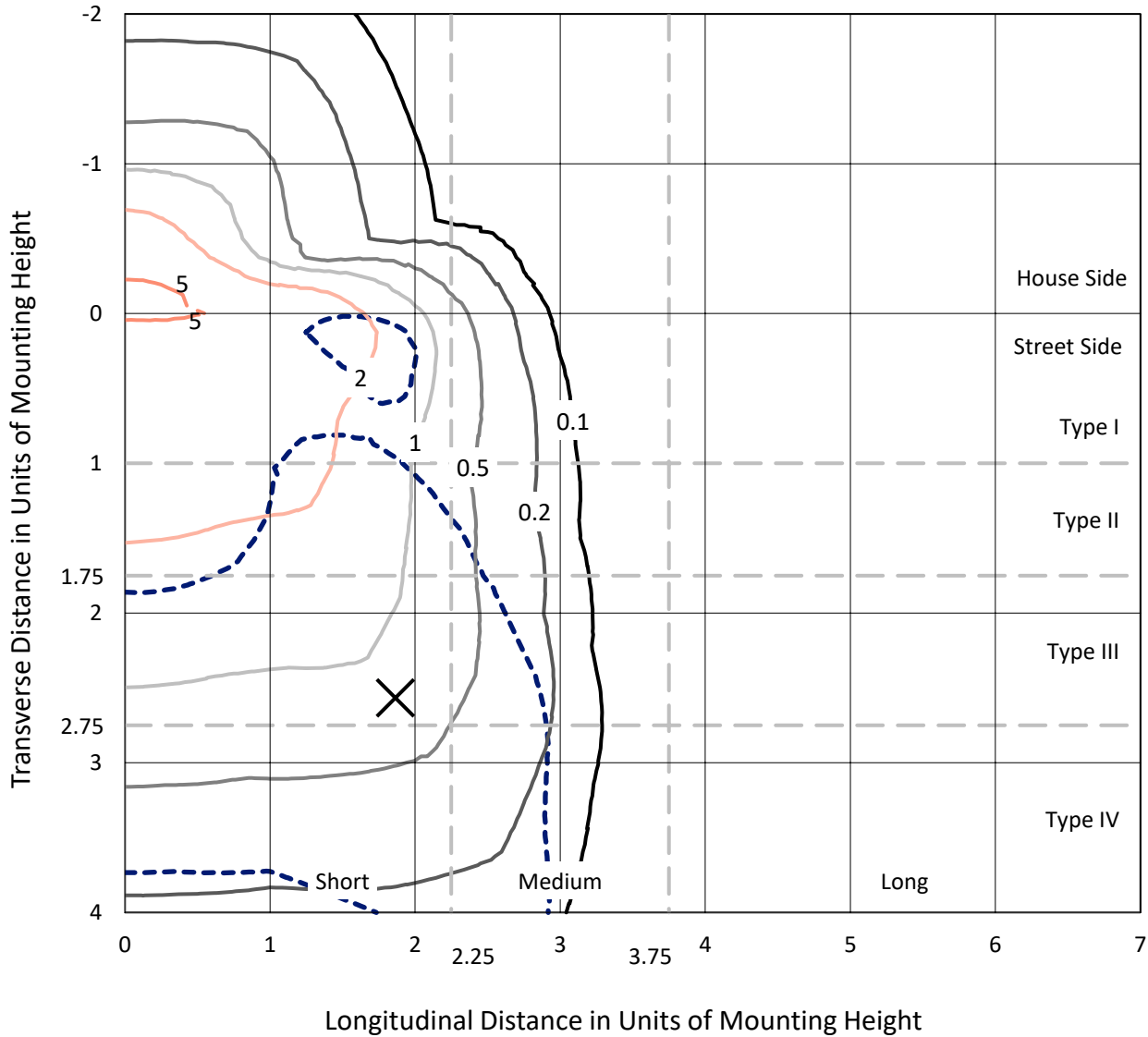
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

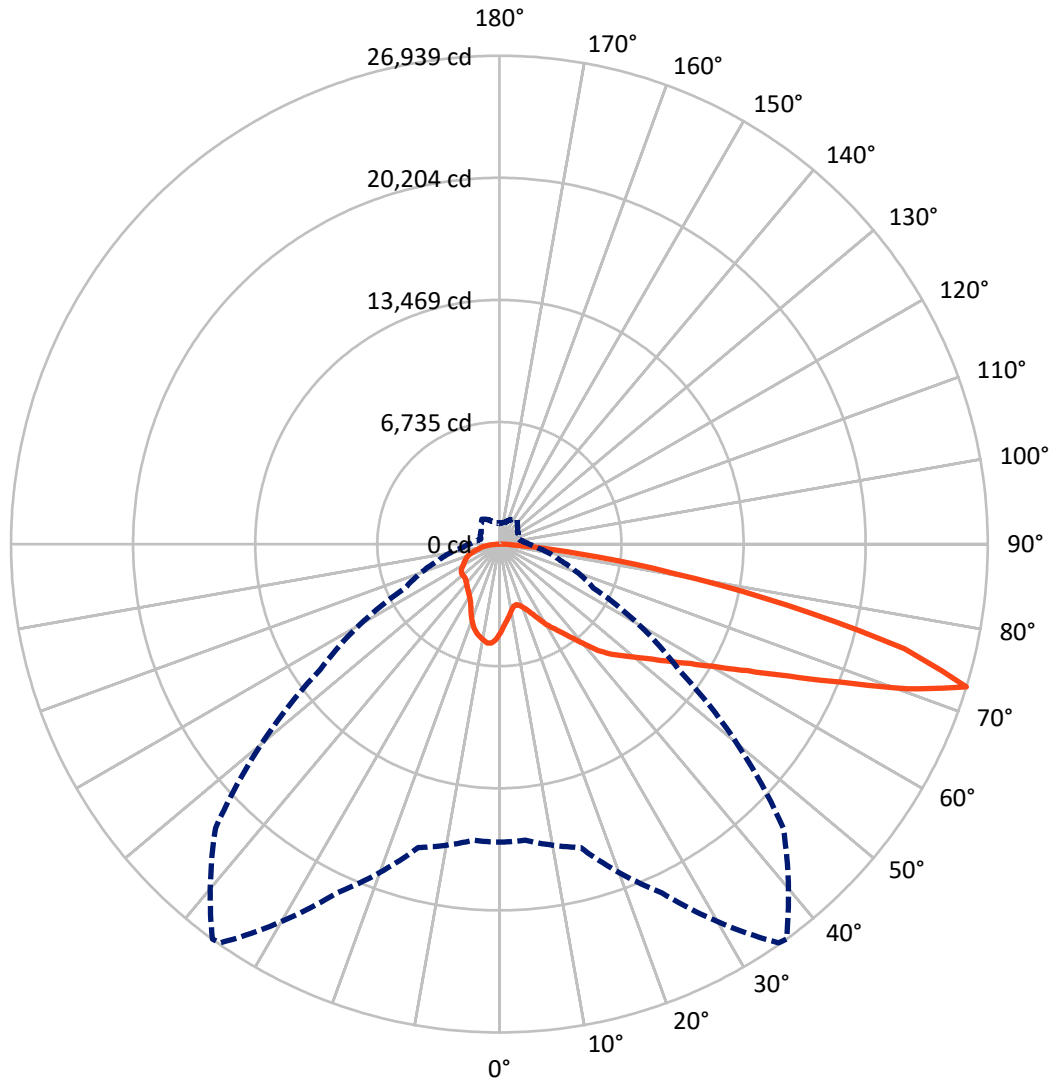
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 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	7750.4	0.0	7750.4
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	25867.5	0.0	25867.5
	% Fixture	76.9	0.0	76.9
Total	Lumens	33617.9	0.0	33617.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.9	1.4
10°-20°	1297.6	3.9
20°-30°	2148.9	6.4
30°-40°	3218.2	9.6
40°-50°	4695.0	14.0
50°-60°	6682.5	19.9
60°-70°	8442.8	25.1
70°-80°	6016.2	17.9
80°-90°	656.8	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°	33617.9	100.0
0°-180°	33617.9	100.0

Coefficient of Utilization



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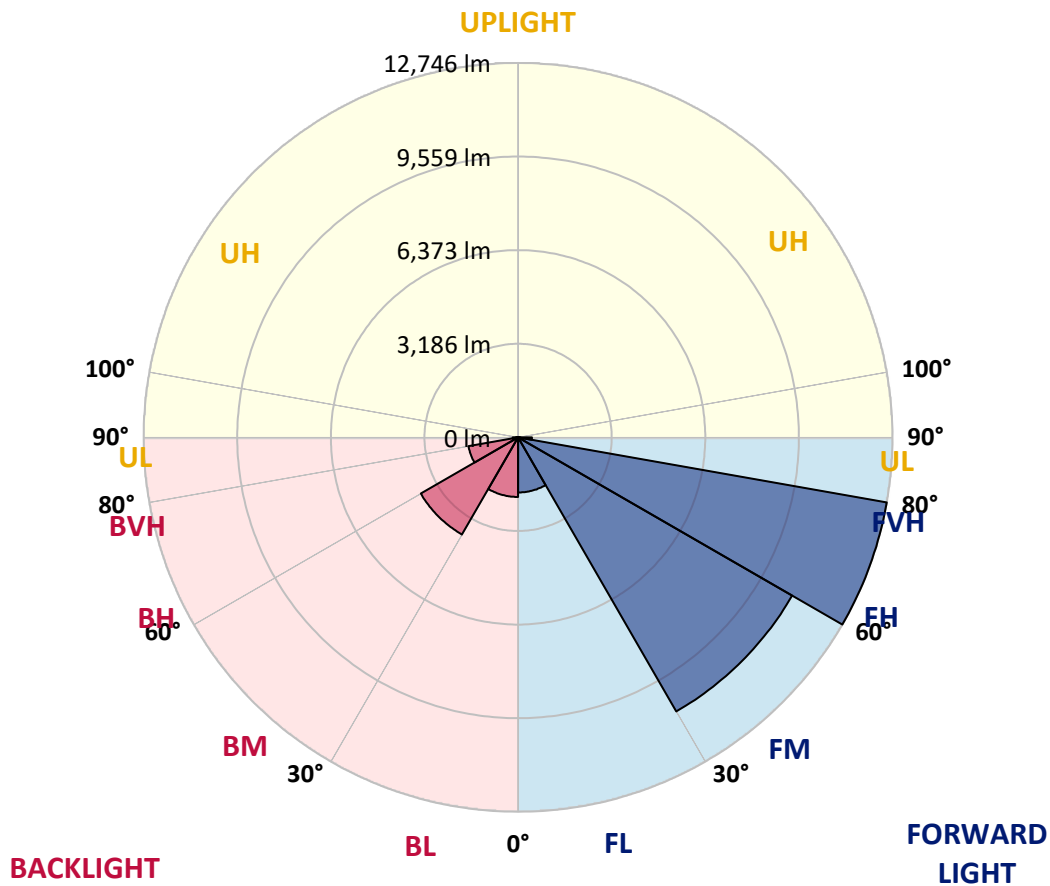
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1876.8	5.6			
FM (30°-60°)	10773.7	32.0			
FH (60°-80°)	12745.6	37.9			G5
FVH (80°-90°)	471.4	1.4			G3/500
BL (0°-30°)	2029.6	6.0	B3/2500		
BM (30°-60°)	3822.0	11.4	B3/5000		
BH (60°-80°)	1713.4	5.1	B3/2500		G3/2500
BVH (80°-90°)	185.4	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4920.1	4920.1	4920.1	4920.1	4920.1	4920.1	4920.1	4920.1	4920.1	4920.1	4920.1
2.5°	4488.5	4481.0	4466.0	4511.0	4555.9	4550.9	4613.2	4673.1	4738.0	4805.4	4895.2
5°	4129.2	4124.2	4111.8	4179.1	4246.5	4244.0	4346.3	4443.6	4575.8	4720.5	4900.2
7.5°	3769.9	3757.5	3774.9	3859.8	3954.6	3964.5	4104.3	4263.9	4456.1	4673.1	4927.6
10°	3453.1	3450.6	3458.1	3552.9	3695.1	3705.1	3884.7	4106.8	4361.3	4650.7	4990.0
12.5°	3370.7	3365.7	3345.8	3393.2	3500.5	3515.4	3712.6	3984.5	4296.4	4663.1	5074.8
15°	3505.5	3493.0	3423.1	3400.7	3453.1	3465.5	3632.7	3912.2	4259.0	4685.6	5182.1
17.5°	3737.5	3730.0	3597.8	3505.5	3540.4	3550.4	3675.1	3899.7	4249.0	4730.5	5314.3
20°	4076.8	4044.4	3837.3	3697.6	3697.6	3712.6	3787.4	3954.6	4261.5	4785.4	5464.0
22.5°	4525.9	4461.1	4169.1	3979.5	3929.6	3949.6	3982.0	4091.8	4313.8	4877.7	5651.2
25°	5029.9	4970.0	4623.2	4356.3	4286.4	4293.9	4266.4	4286.4	4428.6	5005.0	5883.2
27.5°	5566.3	5526.4	5157.2	4817.8	4708.1	4708.1	4610.8	4563.3	4588.3	5149.7	6142.7
30°	6045.4	5990.5	5678.6	5306.9	5162.1	5162.1	4977.5	4875.2	4815.3	5326.8	6489.5
32.5°	6297.4	6264.9	6057.8	5773.4	5596.3	5568.8	5409.1	5289.4	5149.7	5588.8	6958.5
35°	6626.7	6619.2	6494.5	6272.4	6047.9	6007.9	5898.2	5803.4	5561.3	5915.6	7582.3
37.5°	7040.9	7028.4	7008.4	6876.2	6606.7	6599.3	6502.0	6387.2	6072.8	6387.2	8338.3
40°	7504.9	7482.5	7457.5	7455.0	7292.9	7265.4	7257.9	7128.2	6689.1	6956.0	9126.7
42.5°	8143.7	8066.3	7831.8	7936.6	8056.3	8031.4	8126.2	7931.6	7457.5	7632.2	9872.7
45°	8929.6	8740.0	8275.9	8305.8	8607.7	8657.6	8987.0	8939.6	8303.3	8413.1	10658.6
47.5°	9401.1	9236.5	8804.8	8779.9	9156.6	9219.0	9935.1	10024.9	9214.0	9353.7	11629.2
50°	9787.9	9673.1	9318.8	9353.7	9752.9	9815.3	10875.7	11067.8	10072.3	10316.8	12756.9
52.5°	10254.4	10089.8	9815.3	9980.0	10469.0	10543.8	11921.1	12128.2	10845.7	11374.7	13924.6
55°	10516.4	10449.0	10454.0	10706.0	11319.8	11422.1	13016.4	12981.5	11554.3	12280.4	14802.8
57.5°	11120.2	11095.2	11324.8	11419.6	12312.8	12445.0	14111.7	13812.3	12198.0	12981.5	15224.5
60°	12185.6	12123.2	12322.8	12467.5	13540.3	13727.5	15334.2	14625.7	12634.7	13502.9	15082.2
62.5°	13682.6	13605.2	13612.7	13842.2	15184.5	15381.6	16694.0	15304.3	12769.4	13582.8	14181.6
65°	15543.8	15431.5	15304.3	15616.2	17367.7	17532.3	18173.5	15798.3	12447.5	12814.3	12300.3
67.5°	17507.4	17415.1	17265.4	17919.1	20194.5	20294.3	19832.7	15755.9	11427.1	10758.4	8627.7
70°	17622.2	17644.6	18353.2	20718.4	23884.6	23909.5	21402.1	14902.6	9253.9	6973.5	4298.9
72.5°	16439.5	16402.1	17325.2	21229.9	26853.6	26938.5	22143.1	12073.3	5718.5	3478.0	2016.0
75°	13353.2	13418.1	14388.6	18575.2	23016.3	23091.2	18051.3	7118.2	2717.0	1701.6	1289.9
77.5°	5748.5	6110.2	8023.9	13086.2	16484.4	16252.4	9303.8	2884.2	1449.6	1212.6	988.0
80°	1659.2	1801.4	2859.3	6222.5	9877.7	9703.0	3682.6	1080.3	1010.5	910.7	708.6
82.5°	536.4	593.8	1047.9	2477.5	4426.1	4421.1	1397.2	638.7	661.2	618.8	456.6
85°	149.7	172.2	321.9	751.0	1369.8	1342.3	404.2	301.9	351.8	356.8	227.0
87.5°	0.0	0.0	2.5	5.0	5.0	5.0	10.0	44.9	102.3	129.7	92.3
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°	4920.1	4920.1	4920.1	4920.1	4920.1	4920.1	4920.1	4920.1	4920.1	4920.1	4920.1
2.5°	4950.1	4942.6	5044.9	5124.7	5199.6	5249.5	5264.4	5274.4	5294.4	5304.4	5294.4
5°	4985.0	5022.4	5192.1	5316.8	5416.6	5476.5	5479.0	5474.0	5489.0	5476.5	5469.0
7.5°	5059.8	5132.2	5346.8	5479.0	5543.9	5546.4	5486.5	5416.6	5381.7	5351.8	5341.8
10°	5159.6	5266.9	5501.5	5588.8	5568.8	5476.5	5344.3	5234.5	5172.1	5127.2	5117.2
12.5°	5296.9	5416.6	5638.7	5636.2	5511.4	5346.8	5192.1	5059.8	4970.0	4917.6	4900.2
15°	5426.6	5578.8	5738.5	5621.2	5424.1	5224.5	5024.9	4847.8	4728.0	4645.7	4630.7
17.5°	5586.3	5748.5	5810.8	5573.8	5314.3	5057.4	4790.4	4558.4	4396.2	4298.9	4291.4
20°	5770.9	5915.6	5845.8	5491.5	5172.1	4835.3	4473.5	4214.0	4039.4	3944.6	3952.1
22.5°	5985.5	6090.3	5855.8	5379.2	4975.0	4520.9	4116.7	3867.2	3750.0	3700.1	3702.6
25°	6215.0	6282.4	5838.3	5227.0	4673.1	4136.7	3750.0	3635.2	3625.2	3612.8	3617.7
27.5°	6487.0	6472.0	5785.9	5012.4	4266.4	3690.1	3493.0	3522.9	3562.9	3557.9	3562.9
30°	6851.3	6709.0	5718.5	4715.5	3782.4	3315.8	3340.8	3425.6	3478.0	3483.0	3498.0
32.5°	7267.9	6971.0	5611.2	4311.4	3320.8	3106.3	3198.6	3300.9	3363.3	3375.7	3395.7
35°	7764.4	7270.4	5421.6	3807.4	2989.0	2981.5	3066.3	3136.2	3203.6	3208.6	3208.6
37.5°	8335.8	7569.8	5119.7	3251.0	2784.4	2874.2	2954.1	2969.0	2986.5	2971.5	2979.0
40°	8859.7	7859.2	4690.6	2744.5	2617.2	2779.4	2846.8	2796.9	2742.0	2704.6	2712.1
42.5°	9298.8	8056.3	4121.7	2390.2	2447.6	2694.6	2747.0	2644.7	2537.4	2467.6	2477.5
45°	9792.9	8238.5	3453.1	2150.7	2302.9	2634.7	2669.6	2537.4	2400.2	2295.4	2280.4
47.5°	10474.0	8610.2	2859.3	1983.5	2200.6	2602.3	2659.7	2480.0	2300.4	2143.2	2125.7
50°	11314.8	9136.7	2362.8	1873.7	2153.2	2584.8	2657.2	2417.7	2203.1	2018.5	2006.0
52.5°	12233.0	9650.6	1996.0	1788.9	2105.8	2532.4	2644.7	2347.8	2100.8	1901.2	1886.2
55°	12844.2	9852.7	1749.0	1709.1	2028.4	2450.1	2594.8	2280.4	1946.1	1764.0	1741.5
57.5°	13023.9	9593.3	1576.8	1636.7	1928.6	2335.3	2500.0	2138.2	1851.3	1706.6	1689.1
60°	12714.5	8939.6	1469.6	1576.8	1818.9	2188.1	2335.3	2055.9	1776.4	1646.7	1634.2
62.5°	11841.2	7931.6	1387.2	1514.5	1706.6	2033.4	2230.5	1956.1	1694.1	1591.8	1574.3
65°	10084.8	6504.5	1319.9	1449.6	1599.3	1886.2	2115.8	1856.3	1604.3	1526.9	1507.0
67.5°	7053.4	4568.3	1247.5	1372.2	1492.0	1744.0	1996.0	1764.0	1512.0	1454.6	1434.6
70°	3448.1	2422.6	1160.2	1282.4	1377.2	1599.3	1876.2	1651.7	1389.7	1357.3	1329.8
72.5°	1641.7	1354.8	1057.9	1160.2	1220.1	1407.2	1676.6	1489.5	1245.0	1175.1	1127.7
75°	1100.3	963.1	923.1	1015.5	1030.4	1180.1	1437.1	1284.9	1097.8	1018.0	978.0
77.5°	833.3	736.0	775.9	858.3	828.3	970.6	1182.6	1145.2	990.5	918.2	898.2
80°	586.3	536.4	616.3	666.2	643.7	825.8	1065.4	980.5	815.9	736.0	721.1
82.5°	369.3	359.3	454.1	461.6	469.1	653.7	875.7	771.0	633.7	521.5	484.0
85°	184.6	204.6	272.0	272.0	269.5	336.8	499.0	434.1	341.8	272.0	264.5
87.5°	62.4	87.3	117.3	94.8	72.4	57.4	64.9	79.8	84.8	82.3	82.3
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)