

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: P643492

Luminaire Tested: GWS-SA6F-722-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-722-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36593.4 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B5 - U0 - G5

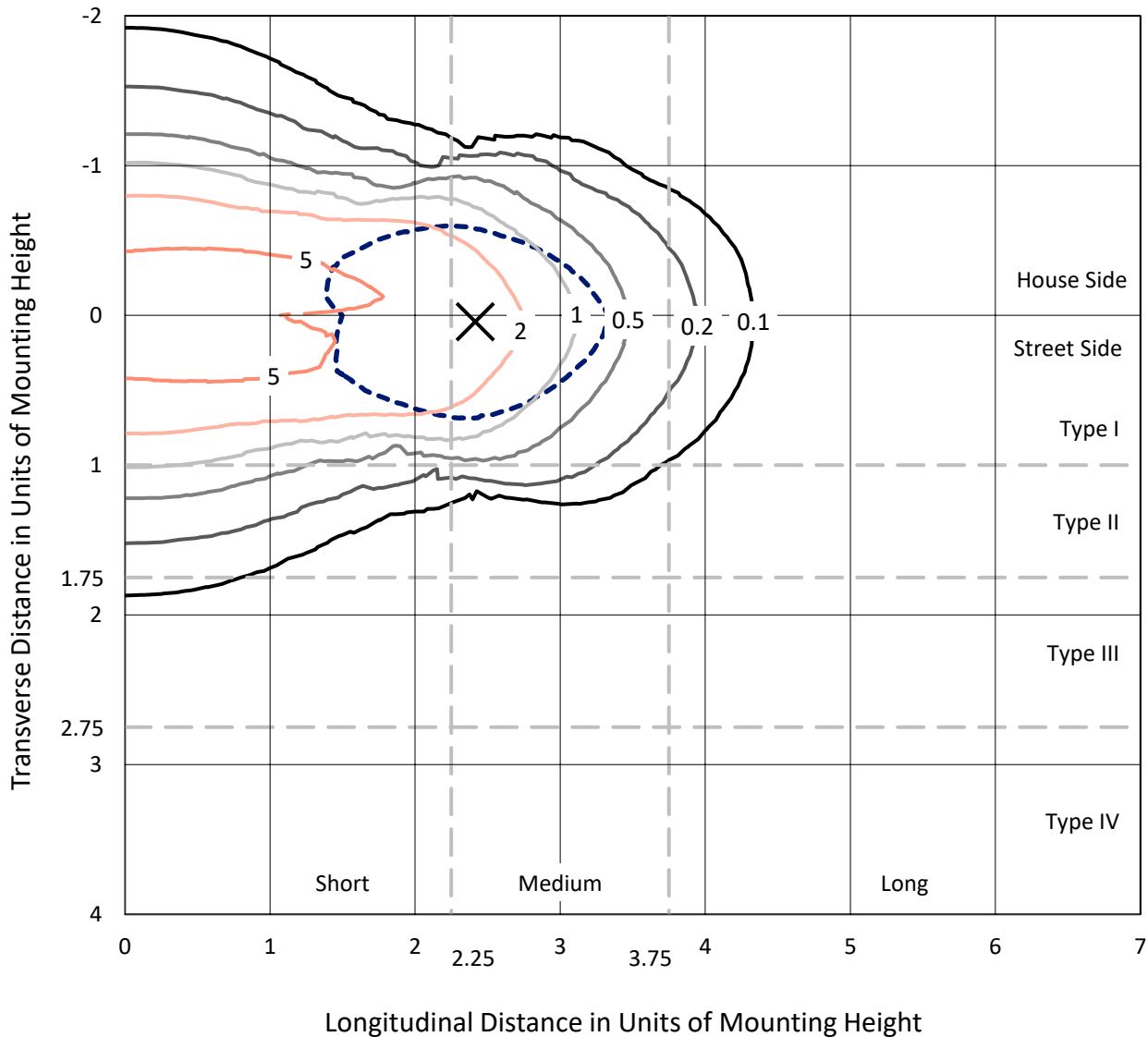
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

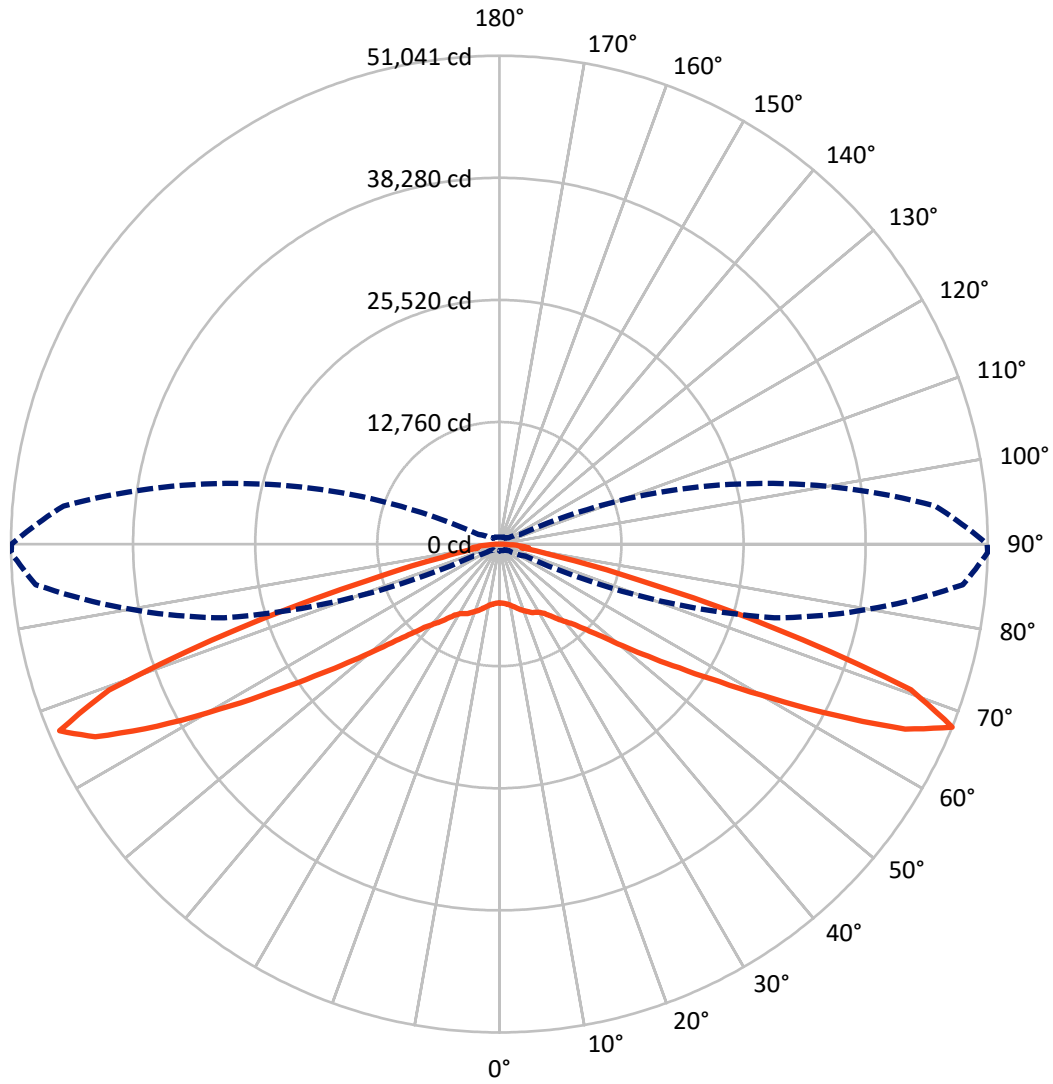
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18136.3	0.0	18136.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	18457.1	0.0	18457.1
	% Fixture	50.4	0.0	50.4
Total	Lumens	36593.4	0.0	36593.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.1	1.7
10°-20°	2006.1	5.5
20°-30°	3391.1	9.3
30°-40°	4653.9	12.7
40°-50°	5934.7	16.2
50°-60°	7446.1	20.3
60°-70°	8980.6	24.5
70°-80°	3248.9	8.9
80°-90°	315.9	0.9
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°	36593.4	100.0
0°-180°	36593.4	100.0

Coefficient of Utilization



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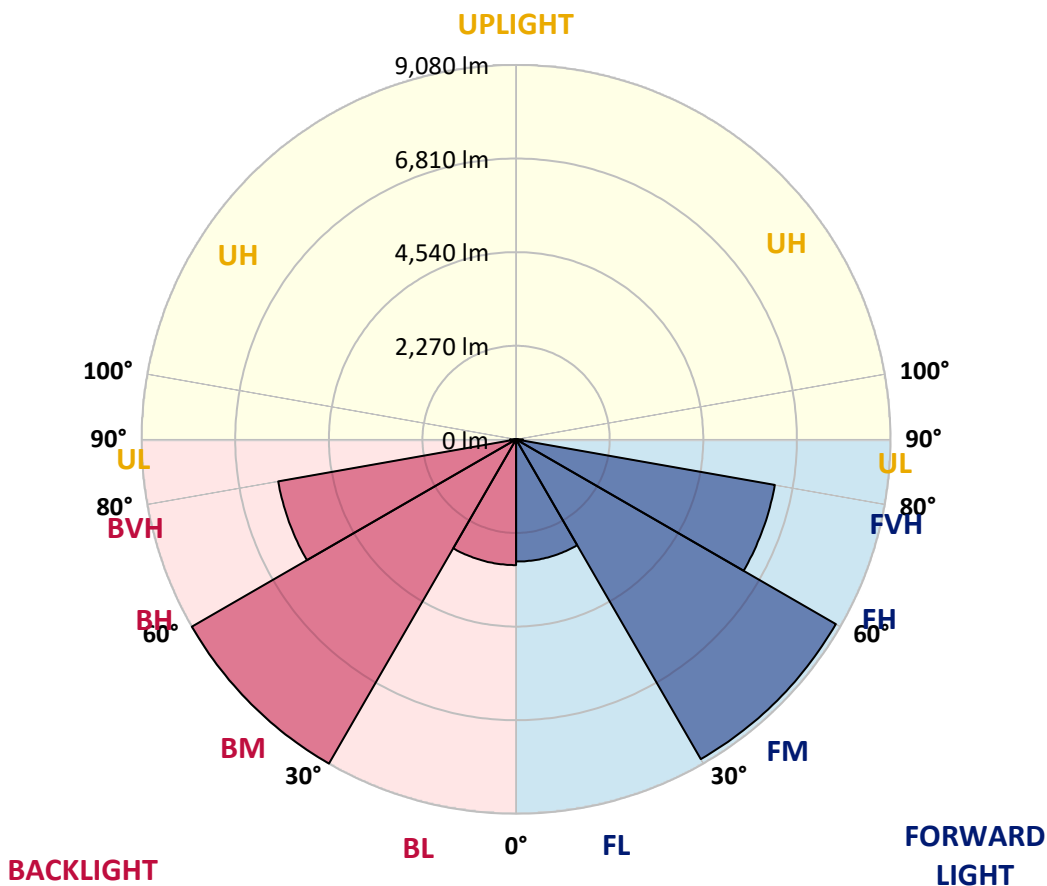
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2963.8	8.1			
FM (30°-60°)	8955.1	24.5			
FH (60°-80°)	6371.4	17.4			G3/7500
FVH (80°-90°)	166.7	0.5			G2/225
BL (0°-30°)	3049.5	8.3	B4/5000		
BM (30°-60°)	9079.6	24.8	B5		
BH (60°-80°)	5858.0	16.0	B5		G5
BVH (80°-90°)	149.2	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	6141.9	6141.9	6141.9	6141.9	6141.9	6141.9	6141.9	6141.9	6141.9	6141.9	6141.9
2.5°	6160.3	6155.0	6141.9	6181.3	6173.4	6176.1	6191.8	6181.3	6162.9	6131.4	6176.1
5°	6333.8	6331.1	6302.2	6325.9	6299.6	6281.2	6278.6	6252.3	6231.3	6197.1	6244.4
7.5°	6502.0	6499.3	6475.7	6517.7	6496.7	6475.7	6452.0	6399.5	6349.5	6299.6	6352.2
10°	6630.7	6628.1	6622.9	6683.3	6688.6	6696.4	6685.9	6596.6	6509.8	6449.4	6502.0
12.5°	6704.3	6712.2	6725.3	6835.7	6890.9	6943.5	6956.6	6883.0	6738.5	6651.8	6714.8
15°	6654.4	6670.2	6735.9	6935.6	7088.0	7206.3	7256.2	7195.8	7009.2	6864.6	6935.6
17.5°	6415.2	6428.4	6557.1	6862.0	7198.4	7471.7	7553.2	7516.4	7308.8	7132.7	7201.0
20°	6084.1	6113.0	6252.3	6678.0	7180.0	7655.7	7873.8	7860.7	7634.7	7364.0	7445.5
22.5°	5784.5	5818.6	5965.8	6436.3	7056.5	7703.0	8197.1	8231.3	7931.7	7595.3	7661.0
25°	5448.1	5479.6	5668.8	6149.8	6843.6	7666.2	8473.0	8628.1	8268.1	7860.7	7921.1
27.5°	5103.8	5127.5	5314.1	5826.5	6565.0	7597.9	8691.2	9064.4	8599.2	8044.7	8086.7
30°	4801.6	4833.1	5003.9	5503.3	6260.2	7461.2	8869.9	9529.5	8980.3	8252.3	8286.5
32.5°	4509.8	4536.1	4722.7	5185.3	5936.9	7251.0	9030.2	10076.2	9545.3	8638.6	8638.6
35°	4141.9	4189.2	4399.5	4880.4	5632.1	6972.4	9145.8	10712.2	10318.0	9208.9	9211.5
37.5°	3802.9	3829.2	4049.9	4536.1	5311.4	6657.0	9156.4	11371.9	11295.6	9934.3	9939.5
40°	3416.6	3450.7	3687.2	4168.2	4943.5	6325.9	9056.5	11986.8	12320.6	10680.7	10651.8
42.5°	3025.0	3074.9	3300.9	3771.3	4546.6	5921.1	8791.0	12572.9	13621.5	11545.3	11474.4
45°	2646.5	2678.1	2904.1	3348.2	4092.0	5437.6	8365.3	13135.3	15166.9	12859.4	12756.9
47.5°	2220.8	2233.9	2467.8	2893.6	3621.5	4898.8	7755.6	13637.3	16864.6	14599.2	14423.1
50°	1842.3	1860.7	2044.7	2410.0	3046.0	4260.2	6996.0	13931.6	19027.6	16972.4	16667.5
52.5°	1490.1	1508.5	1655.7	1947.4	2517.7	3532.2	6055.2	13863.3	21222.0	19918.5	19474.3
55°	1203.7	1216.8	1316.7	1545.3	1981.6	2809.5	4943.5	13251.0	23658.3	23766.1	22809.4
57.5°	1017.1	1022.3	1090.7	1230.0	1548.0	2165.6	3816.0	11805.5	26212.8	28675.4	27103.8
60°	909.3	912.0	943.5	1030.2	1222.1	1653.1	2796.3	9503.3	28859.3	34817.3	32662.2
62.5°	841.0	841.0	867.3	917.2	1014.5	1272.0	2055.2	6825.2	30759.5	41500.6	39358.7
65°	775.3	775.3	793.7	835.7	888.3	1038.1	1542.7	4402.1	31692.5	47088.0	46612.3
67.5°	691.2	693.8	707.0	751.6	798.9	867.3	1169.5	2977.7	29755.5	48633.3	51040.6
70°	612.4	615.0	633.4	662.3	701.7	749.0	914.6	2052.6	21658.3	40504.5	45637.2
72.5°	525.6	536.1	549.3	580.8	604.5	638.6	746.4	1329.8	12601.8	26055.1	30168.1
75°	431.0	444.2	459.9	491.5	507.2	520.4	615.0	948.7	6063.1	13203.7	15035.5
77.5°	333.8	346.9	365.3	394.2	404.7	420.5	470.4	685.9	2904.1	5852.8	6310.1
80°	223.4	228.6	244.4	278.6	297.0	307.5	346.9	467.8	1261.5	2349.5	2328.5
82.5°	136.7	139.3	144.5	165.6	173.5	184.0	226.0	286.5	601.8	2670.2	3061.8
85°	49.9	47.3	44.7	57.8	68.3	78.8	105.1	144.5	262.8	1834.4	2052.6
87.5°	0.0	0.0	0.0	2.6	5.3	5.3	10.5	21.0	63.1	685.9	470.4
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°	6141.9	6141.9	6141.9	6141.9	6141.9	6141.9	6141.9	6141.9	6141.9	6141.9	6141.9
2.5°	6162.9	6134.0	6170.8	6197.1	6254.9	6275.9	6281.2	6262.8	6262.8	6231.3	6236.5
5°	6233.9	6215.5	6275.9	6320.6	6404.7	6436.3	6457.3	6444.1	6452.0	6431.0	6436.3
7.5°	6341.6	6325.9	6431.0	6517.7	6604.5	6641.2	6659.6	6649.1	6651.8	6625.5	6633.4
10°	6491.4	6496.7	6622.9	6735.9	6851.5	6888.3	6896.2	6864.6	6838.4	6791.1	6793.7
12.5°	6696.4	6722.7	6901.4	7027.6	7145.8	7198.4	7140.6	7025.0	6917.2	6835.7	6825.2
15°	6919.8	6967.1	7224.7	7385.0	7513.8	7487.5	7316.7	7056.5	6843.6	6722.7	6699.1
17.5°	7187.9	7258.9	7582.1	7774.0	7884.3	7716.1	7358.7	6969.8	6672.8	6509.8	6478.3
20°	7440.2	7553.2	7960.6	8210.2	8223.4	7844.9	7340.3	6793.7	6420.5	6220.8	6178.7
22.5°	7671.5	7816.0	8357.4	8675.4	8504.6	7902.7	7227.3	6544.0	6115.6	5881.7	5844.9
25°	7923.8	8128.8	8820.0	9116.9	8785.8	7879.1	6990.8	6233.9	5747.7	5508.5	5482.3
27.5°	8097.2	8354.8	9285.1	9569.0	9017.1	7745.1	6685.9	5894.9	5411.3	5185.3	5148.5
30°	8297.0	8625.5	9797.6	10060.4	9159.0	7547.9	6360.0	5579.5	5098.5	4854.1	4827.8
32.5°	8659.6	9072.3	10433.6	10580.8	9203.7	7303.5	6047.3	5274.6	4772.7	4528.2	4491.5
35°	9243.1	9726.7	11327.2	11161.6	9169.5	7035.5	5750.3	4917.2	4438.9	4210.2	4173.4
37.5°	9979.0	10580.8	12323.2	11684.6	9074.9	6741.1	5398.2	4617.6	4139.3	3908.0	3887.0
40°	10664.9	11406.0	13440.2	12136.6	8883.0	6378.4	5059.1	4304.9	3816.0	3571.6	3524.3
42.5°	11524.3	12509.8	14733.2	12528.2	8567.7	5944.8	4678.0	3918.5	3411.3	3190.5	3132.7
45°	12830.5	14055.2	16236.5	12904.1	8097.2	5411.3	4199.7	3448.1	2967.1	2741.1	2696.4
47.5°	14459.9	15986.8	17865.9	13127.4	7382.4	4848.9	3658.3	2951.4	2470.4	2215.5	2194.5
50°	16749.0	18796.3	19613.6	13088.0	6583.4	4181.3	3048.6	2360.0	1957.9	1774.0	1745.1
52.5°	19537.4	22323.2	21503.2	12615.0	5734.5	3421.8	2375.8	1852.8	1553.2	1421.8	1398.2
55°	23035.4	26546.6	23492.7	11600.5	4662.3	2620.2	1866.0	1461.2	1256.2	1177.4	1166.9
57.5°	27366.6	32015.7	25408.6	9892.2	3505.9	2000.0	1437.6	1206.3	1109.1	1061.8	1059.1
60°	33082.7	37821.2	27072.2	7687.2	2509.9	1529.6	1187.9	1077.5	1001.3	969.8	967.1
62.5°	39879.0	43093.2	28107.7	5235.2	1887.0	1219.4	1046.0	977.7	933.0	914.6	912.0
65°	46864.6	46425.7	27613.6	3429.7	1432.3	1035.5	938.2	901.4	862.0	843.6	843.6
67.5°	50990.7	45721.3	23821.2	2381.1	1135.3	909.3	846.3	812.1	746.4	730.6	730.6
70°	45164.2	37048.6	15613.6	1742.4	919.8	796.3	735.9	688.6	662.3	646.5	643.9
72.5°	29871.2	24107.7	8302.2	1208.9	767.4	678.1	622.9	604.5	572.9	557.2	554.5
75°	14867.3	12662.3	4254.9	872.5	638.6	544.0	520.4	512.5	486.2	465.2	459.9
77.5°	6197.1	5637.3	1984.2	633.4	486.2	438.9	417.9	417.9	389.0	365.3	354.8
80°	2336.4	2081.5	938.2	433.6	360.1	325.9	312.7	302.2	278.6	249.7	233.9
82.5°	3124.8	2042.0	459.9	270.7	236.5	210.2	191.9	184.0	170.8	157.7	147.2
85°	2023.6	1450.7	207.6	139.3	118.3	89.4	78.8	73.6	65.7	57.8	52.6
87.5°	412.6	486.2	63.1	26.3	15.8	7.9	7.9	2.6	0.0	0.0	0.0
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)