

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: P638696

Luminaire Tested: GWS-SA4F-735-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-735-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32881 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

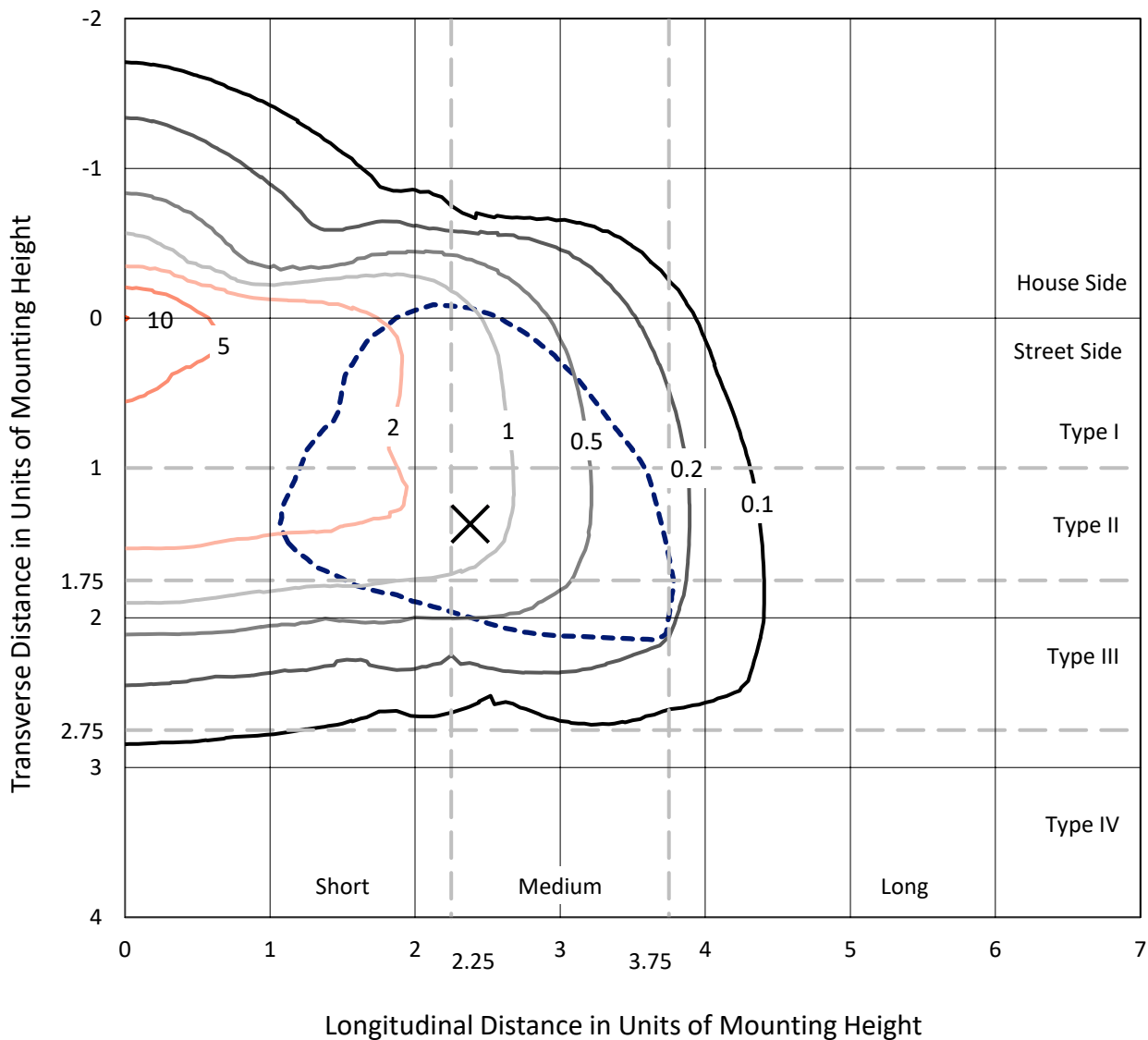
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

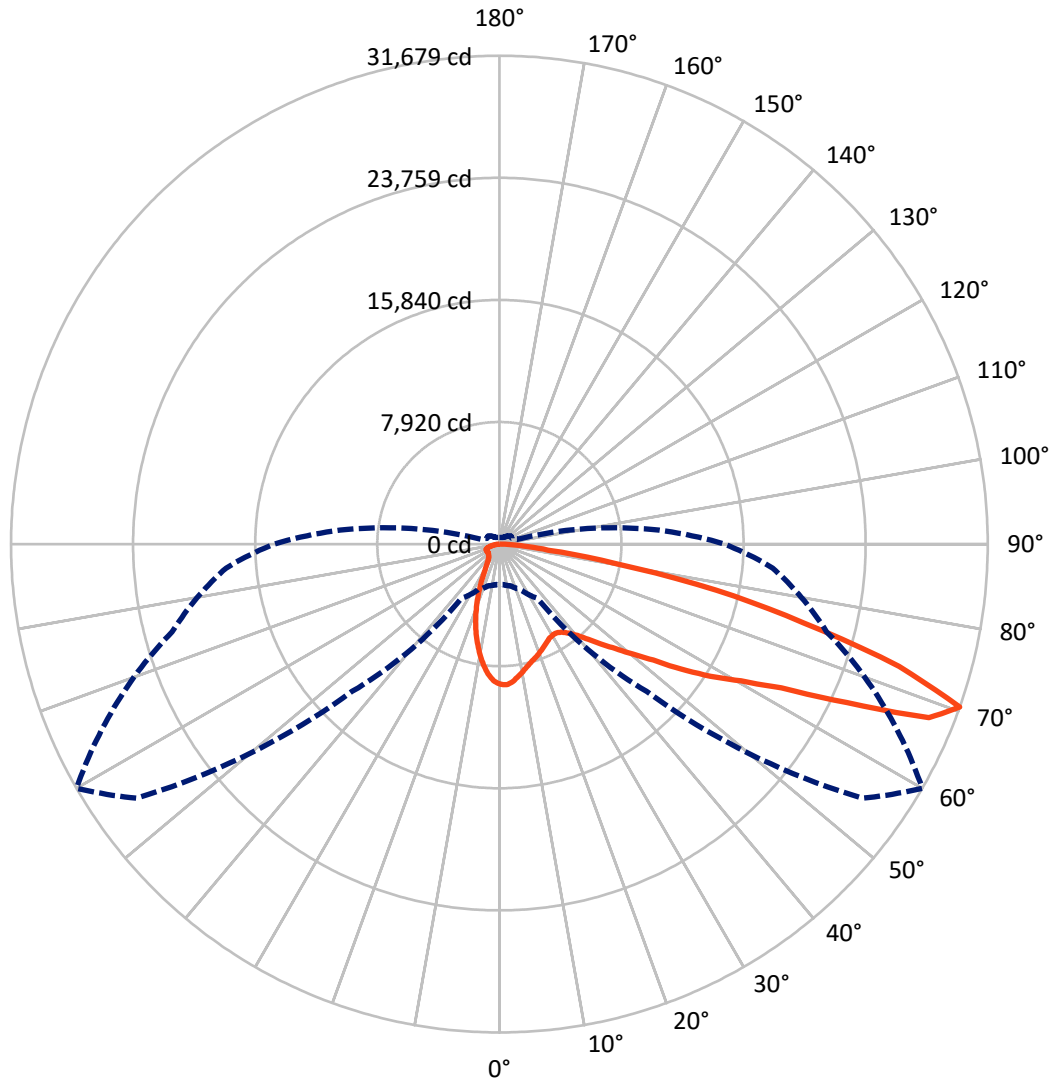
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5623.4	0.0	5623.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	27257.6	0.0	27257.6
	% Fixture	82.9	0.0	82.9
Total	Lumens	32881.0	0.0	32881.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	784.3	2.4
10°-20°	1757.0	5.3
20°-30°	2250.1	6.8
30°-40°	2957.2	9.0
40°-50°	4290.4	13.0
50°-60°	6694.1	20.4
60°-70°	8763.9	26.7
70°-80°	4846.1	14.7
80°-90°	537.8	1.6
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°	32881.0	100.0
0°-180°	32881.0	100.0

Coefficient of Utilization



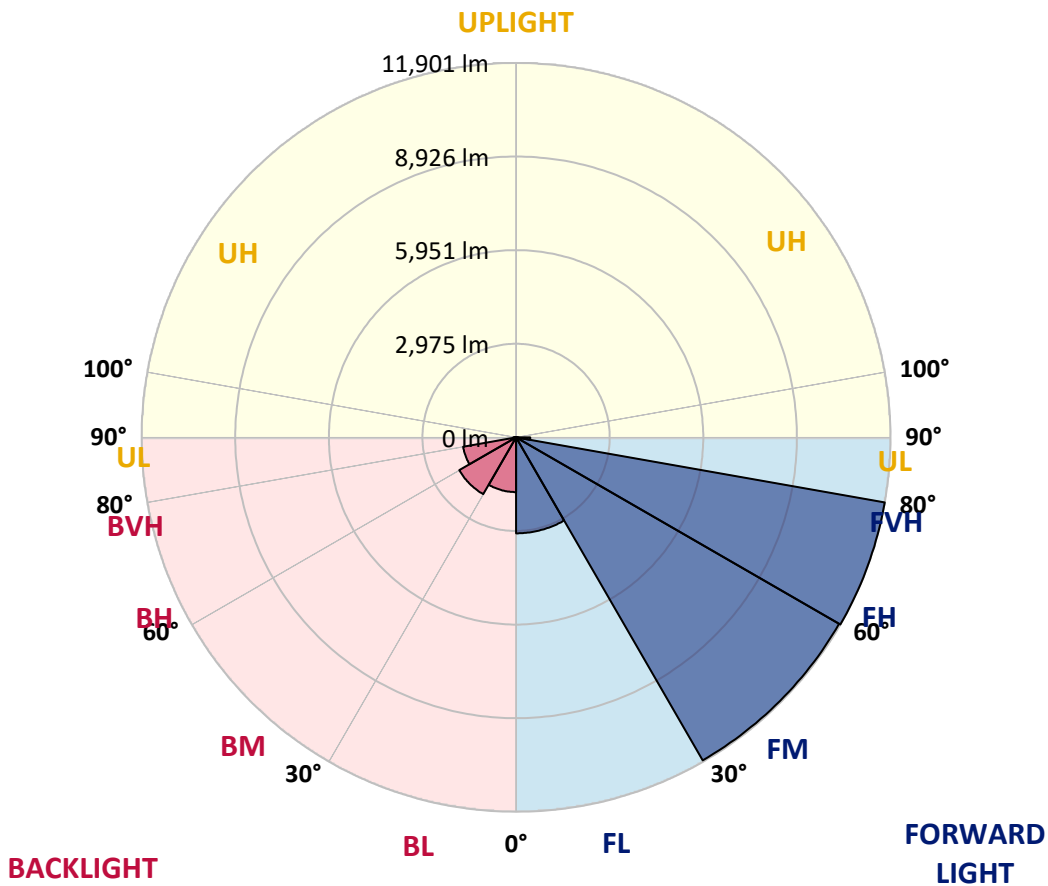
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3051.6	9.3			
FM (30°-60°)	11856.8	36.1			
FH (60°-80°)	11901.1	36.2			G4/12000
FVH (80°-90°)	448.1	1.4			G3/500
BL (0°-30°)	1739.8	5.3	B3/2500		
BM (30°-60°)	2085.0	6.3	B2/2500		
BH (60°-80°)	1708.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	89.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	9098.6	9098.6	9098.6	9098.6	9098.6	9098.6	9098.6	9098.6	9098.6	9098.6	9098.6
2.5°	8971.1	8980.7	9007.2	9045.7	9084.2	9103.4	9151.5	9137.1	9127.5	9108.2	9084.2
5°	8574.1	8593.4	8617.4	8692.0	8776.2	8843.6	8951.8	8963.9	8968.7	8978.3	8939.8
7.5°	8068.9	8073.7	8131.5	8230.1	8340.8	8456.3	8636.7	8687.2	8730.5	8778.6	8747.4
10°	7510.8	7522.8	7566.1	7708.1	7898.1	8068.9	8311.9	8396.1	8487.5	8593.4	8550.1
12.5°	7053.7	7056.1	7125.9	7277.4	7484.3	7715.3	8018.4	8119.5	8239.7	8405.7	8367.2
15°	6690.4	6690.4	6755.4	6885.3	7123.5	7395.3	7756.2	7886.1	8049.7	8273.4	8206.1
17.5°	6401.7	6404.1	6445.0	6582.2	6793.9	7094.6	7522.8	7698.4	7878.9	8174.8	8073.7
20°	6250.2	6238.1	6245.4	6329.6	6510.0	6801.1	7289.5	7494.0	7736.9	8107.4	7953.5
22.5°	6243.0	6221.3	6190.0	6197.2	6303.1	6543.7	7039.3	7287.1	7592.6	8052.1	7830.8
25°	6365.7	6341.6	6286.3	6223.7	6214.1	6358.4	6803.5	7085.0	7443.4	8028.0	7712.9
27.5°	6572.5	6555.7	6483.5	6389.7	6291.1	6286.3	6625.5	6919.0	7335.2	8052.1	7628.7
30°	6846.8	6817.9	6772.2	6651.9	6502.8	6348.8	6555.7	6830.0	7263.0	8129.1	7592.6
32.5°	7157.1	7140.3	7097.0	6976.7	6817.9	6572.5	6611.0	6849.2	7263.0	8263.8	7599.8
35°	7486.7	7484.3	7484.3	7404.9	7229.3	6923.8	6830.0	7012.8	7373.7	8480.3	7676.8
37.5°	7806.7	7804.3	7881.3	7910.2	7710.5	7380.9	7202.9	7340.0	7616.6	8800.3	7866.8
40°	8066.5	8076.1	8244.6	8388.9	8278.2	7972.7	7722.5	7792.3	8011.2	9255.0	8198.8
42.5°	8328.8	8355.2	8607.8	8862.8	8906.1	8641.5	8388.9	8429.8	8576.5	9856.4	8694.4
45°	8615.0	8627.1	8980.7	9336.8	9546.1	9389.7	9182.8	9238.1	9271.8	10599.8	9433.0
47.5°	8891.7	8923.0	9380.1	9868.4	10265.4	10251.0	10135.5	10118.6	10125.9	11504.4	10306.3
50°	9269.4	9315.1	9851.6	10441.0	11023.2	11290.2	11323.9	11196.4	11143.5	12510.0	11393.7
52.5°	9986.3	9986.3	10467.5	11047.3	11829.1	12490.7	12716.9	12507.6	12339.2	13573.3	12548.5
55°	10883.7	10922.2	11304.7	11773.8	12765.0	13753.8	14518.8	14287.8	13811.5	14730.5	13758.6
57.5°	11283.0	11331.1	11937.4	12666.3	13989.5	15190.0	16250.9	16169.1	15473.9	15933.4	15014.4
60°	10561.3	10662.3	11497.1	12719.3	15098.6	17506.7	18254.9	18016.8	17023.2	17196.4	16376.0
62.5°	8809.9	8920.6	9846.8	11552.5	14944.6	20011.1	21413.7	20535.6	18957.4	18791.4	18190.0
65°	5256.6	5251.8	6365.7	8627.1	13046.5	20706.4	26412.9	24774.6	21945.4	20980.7	20056.9
67.5°	3341.6	3334.4	3567.7	4571.0	8682.4	19003.1	29627.0	30052.8	26003.9	22590.1	20210.8
70°	2636.7	2634.3	2802.7	3259.8	4294.3	13522.8	28732.0	31679.1	28455.4	21976.7	17795.4
72.5°	1922.2	1927.0	2186.8	2730.5	3312.7	6789.1	23266.1	27105.7	26172.3	19400.1	14446.6
75°	1380.9	1388.1	1544.5	2090.6	3055.3	3712.1	15471.5	20381.6	19912.5	15550.9	9938.2
77.5°	878.1	887.7	1024.9	1465.1	2468.3	2997.6	9380.1	14388.9	13248.5	8761.8	3534.1
80°	536.5	567.8	683.2	1092.2	1972.7	2249.4	4688.8	7580.6	6635.1	2403.4	1188.4
82.5°	276.7	300.7	411.4	676.0	1359.3	1975.1	2653.6	3185.2	2054.5	1005.6	632.7
85°	86.6	101.0	144.3	274.3	647.2	1224.5	1756.2	1583.0	943.1	473.9	293.5
87.5°	21.7	21.7	24.1	24.1	26.5	55.3	339.2	358.5	250.2	149.2	120.3
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°	9098.6	9098.6	9098.6	9098.6	9098.6	9098.6	9098.6	9098.6	9098.6	9098.6	9098.6
2.5°	9036.0	8978.3	8954.3	8951.8	8891.7	8805.1	8747.4	8706.5	8682.4	8677.6	8677.6
5°	8874.9	8800.3	8701.6	8627.1	8465.9	8302.3	8165.2	8088.2	7999.2	7987.1	7984.7
7.5°	8660.7	8552.5	8364.8	8155.5	7874.1	7602.2	7371.3	7214.9	7058.5	7029.6	7020.0
10°	8429.8	8283.0	7963.1	7595.0	7174.0	6767.4	6413.8	6137.1	5954.3	5824.4	5800.3
12.5°	8201.2	8006.4	7537.3	6988.7	6411.4	5855.6	5324.0	4871.7	4544.5	4354.4	4320.8
15°	7987.1	7715.3	7072.9	6372.9	5622.3	4862.0	4109.0	3522.0	3062.5	2898.9	2860.5
17.5°	7792.3	7453.1	6623.1	5735.3	4799.5	3805.9	2949.5	2427.4	2158.0	2076.2	2056.9
20°	7597.4	7183.6	6166.0	5064.1	3926.2	2812.3	2155.6	1910.2	1809.1	1777.9	1768.2
22.5°	7388.1	6887.7	5668.0	4402.5	3043.3	2105.0	1763.4	1655.2	1623.9	1626.3	1623.9
25°	7178.8	6587.0	5145.9	3683.2	2266.2	1708.1	1539.7	1498.8	1506.0	1527.7	1532.5
27.5°	7005.6	6319.9	4633.5	2894.1	1770.6	1469.9	1390.5	1388.1	1414.6	1443.5	1448.3
30°	6880.5	6081.8	4128.3	2225.3	1457.9	1306.3	1275.1	1289.5	1320.8	1342.4	1349.6
32.5°	6791.5	5877.3	3589.4	1749.0	1277.5	1190.9	1176.4	1190.9	1210.1	1231.8	1236.6
35°	6760.2	5728.1	3060.1	1426.6	1154.8	1106.7	1097.0	1104.2	1113.9	1125.9	1130.7
37.5°	6830.0	5653.5	2506.8	1241.4	1080.2	1051.3	1036.9	1032.1	1034.5	1039.3	1041.7
40°	7036.9	5687.2	2054.5	1133.1	1032.1	1005.6	981.6	971.9	969.5	974.3	971.9
42.5°	7392.9	5829.2	1727.3	1070.6	993.6	955.1	928.6	919.0	919.0	931.0	931.0
45°	7915.0	6108.2	1491.6	1024.9	959.9	911.8	882.9	878.1	887.7	907.0	909.4
47.5°	8680.0	6517.2	1349.6	991.2	928.6	873.3	844.4	842.0	861.3	892.5	894.9
50°	9587.0	7106.6	1272.6	967.1	907.0	842.0	813.1	815.6	837.2	870.9	878.1
52.5°	10679.2	7910.2	1277.5	957.5	894.9	822.8	793.9	789.1	810.7	844.4	851.6
55°	11807.5	8886.9	1371.3	959.9	878.1	813.1	774.7	757.8	777.1	801.1	803.5
57.5°	13048.9	9988.7	1604.6	955.1	856.5	803.5	757.8	719.3	731.4	745.8	753.0
60°	14449.0	11285.4	2107.4	964.7	846.8	781.9	724.1	673.6	671.2	680.8	683.2
62.5°	16320.7	13048.9	2672.8	981.6	868.5	755.4	673.6	620.7	611.1	615.9	618.3
65°	17752.1	13890.9	2494.8	967.1	914.2	736.2	625.5	570.2	550.9	546.1	546.1
67.5°	17169.9	12777.0	1737.0	928.6	935.8	738.6	587.0	517.2	493.2	481.2	478.7
70°	14610.2	10378.5	1207.7	890.1	911.8	733.8	546.1	473.9	442.7	425.8	423.4
72.5°	11542.9	7924.6	976.7	813.1	827.6	661.6	486.0	425.8	399.4	377.7	377.7
75°	7429.0	4835.6	815.6	724.1	676.0	514.8	421.0	380.1	353.6	332.0	332.0
77.5°	2499.6	1794.7	632.7	613.5	505.2	387.3	353.6	327.2	305.5	286.3	283.9
80°	1015.2	851.6	464.3	464.3	353.6	295.9	276.7	264.6	250.2	226.1	226.1
82.5°	589.4	517.2	324.8	281.5	235.8	204.5	192.5	180.4	180.4	163.6	163.6
85°	283.9	286.3	194.9	173.2	134.7	117.9	113.1	105.9	103.4	93.8	91.4
87.5°	154.0	156.4	98.6	77.0	52.9	45.7	38.5	36.1	33.7	31.3	31.3
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)