

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: P638967

Luminaire Tested: GWS-SA4F-830-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638967
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-830-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26560.8 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

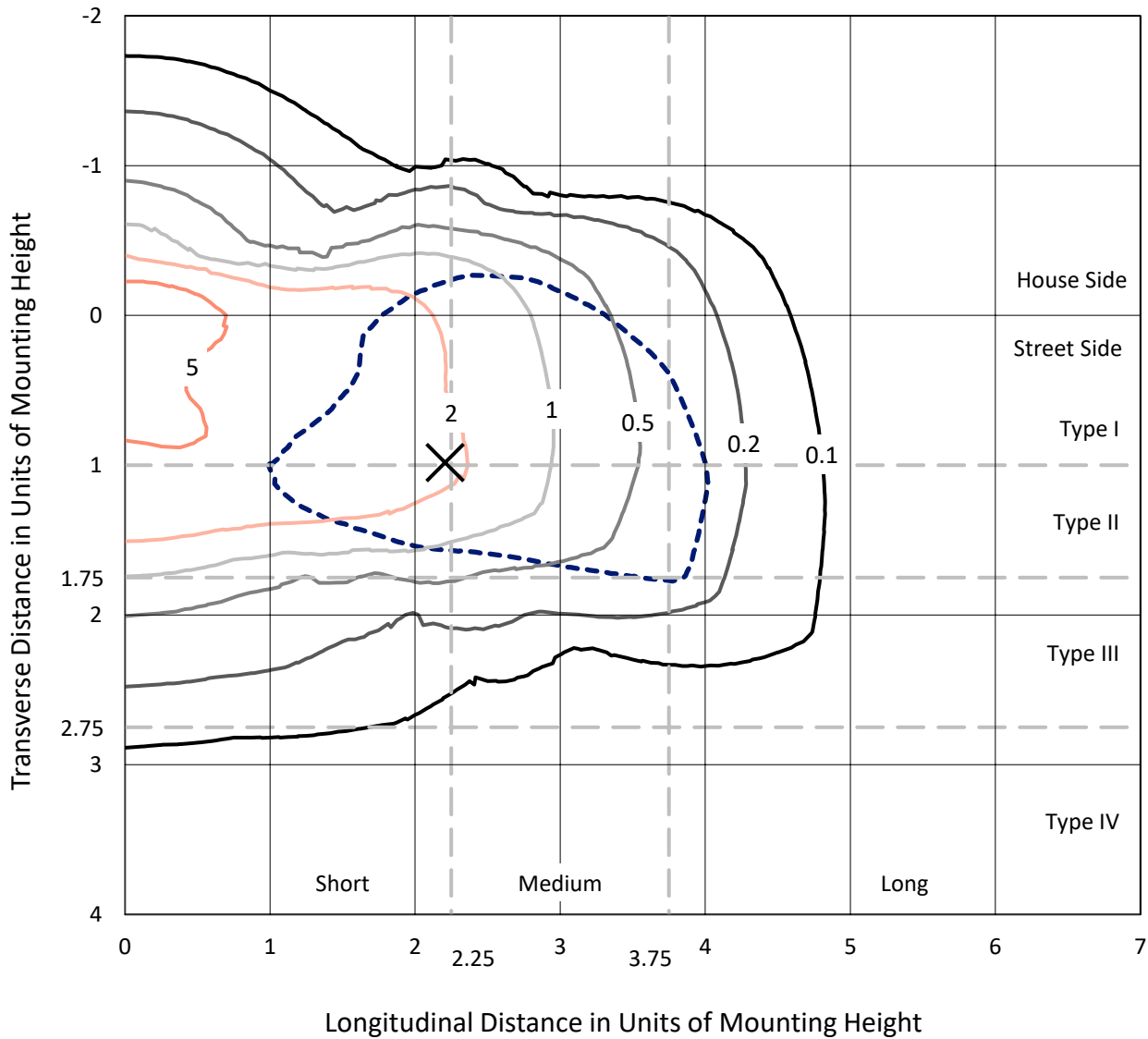
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

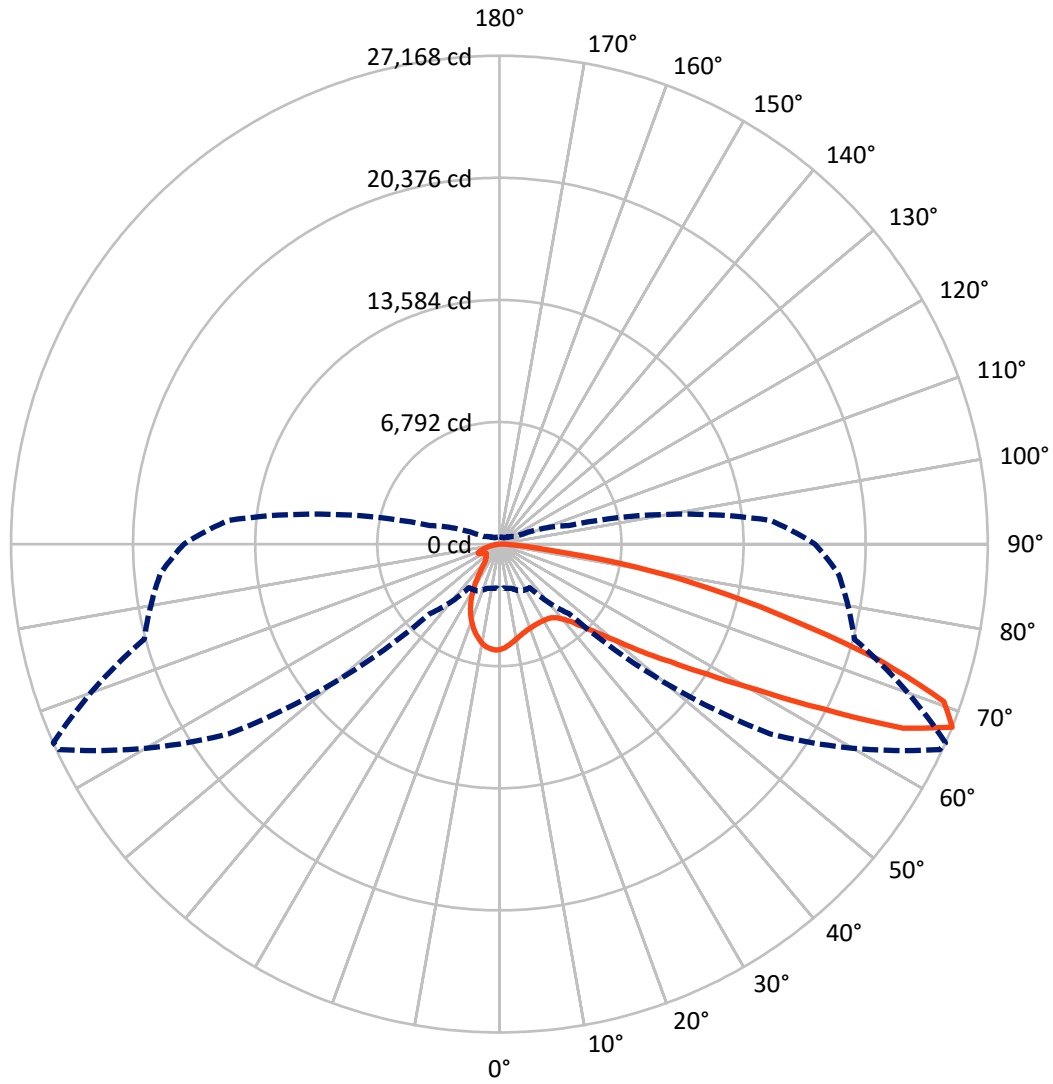
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5389.8	0.0	5389.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	21171.0	0.0	21171.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	26560.8	0.0	26560.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.1	1.9
10°-20°	1265.9	4.8
20°-30°	1740.0	6.6
30°-40°	2378.9	9.0
40°-50°	3604.7	13.6
50°-60°	5603.6	21.1
60°-70°	6822.2	25.7
70°-80°	4155.8	15.6
80°-90°	474.7	1.8
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°	26560.8	100.0
0°-180°	26560.8	100.0

Coefficient of Utilization



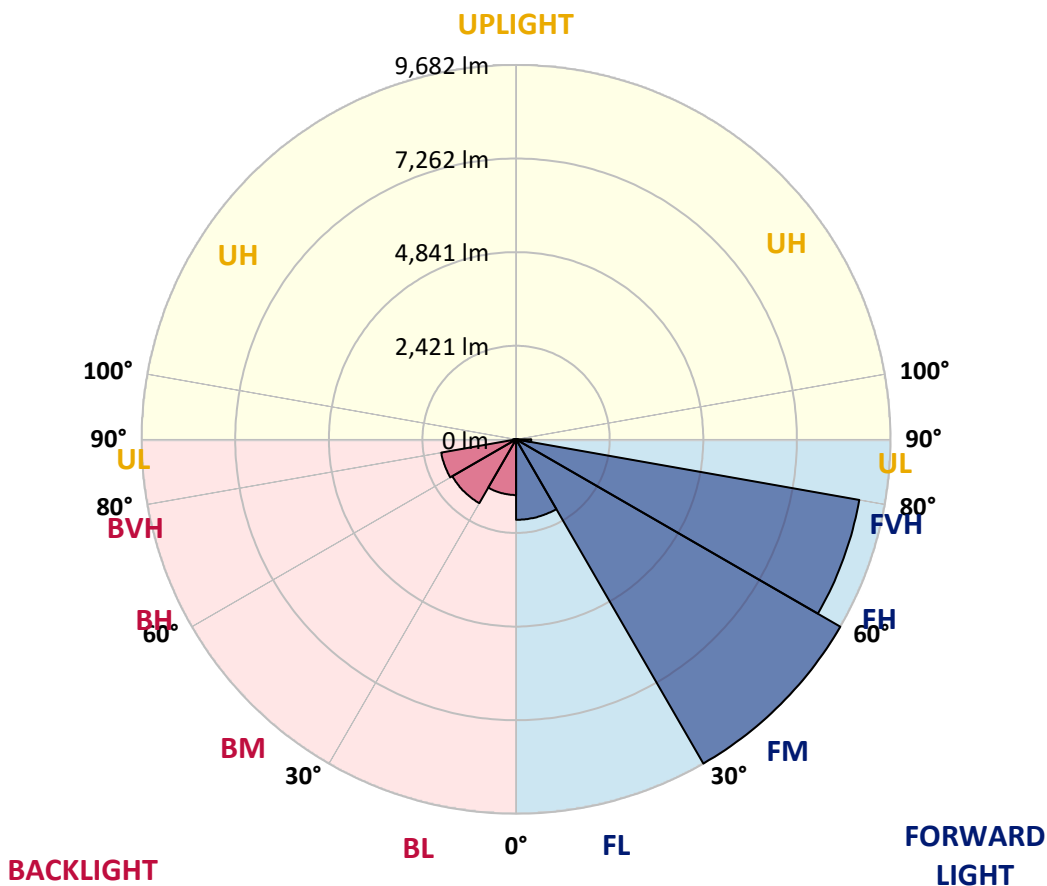
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2081.2	7.8			
FM (30°-60°)	9682.4	36.5			
FH (60°-80°)	9012.8	33.9			G4/12000
FVH (80°-90°)	394.7	1.5			G3/500
BL (0°-30°)	1439.9	5.4	B3/2500		
BM (30°-60°)	1904.7	7.2	B2/2500		
BH (60°-80°)	1965.2	7.4	B3/2500		G3/2500
BVH (80°-90°)	80.0	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5869.2	5869.2	5869.2	5869.2	5869.2	5869.2	5869.2	5869.2	5869.2	5869.2	5869.2
2.5°	5497.2	5516.5	5504.9	5578.5	5582.4	5675.4	5727.7	5772.3	5776.2	5834.3	5873.1
5°	5121.2	5132.9	5132.9	5202.6	5249.1	5373.1	5493.3	5621.2	5630.9	5770.4	5876.9
7.5°	4817.0	4828.7	4820.9	4913.9	4974.0	5111.6	5264.6	5460.3	5479.7	5704.5	5890.5
10°	4578.7	4574.8	4594.2	4679.5	4757.0	4921.7	5092.2	5315.0	5344.1	5628.9	5906.0
12.5°	4415.9	4419.8	4431.4	4520.6	4603.9	4766.7	4943.0	5185.2	5216.2	5541.7	5898.2
15°	4338.4	4330.7	4340.4	4421.7	4501.2	4644.6	4826.7	5076.7	5107.7	5464.2	5900.2
17.5°	4321.0	4315.2	4313.2	4371.4	4431.4	4565.1	4739.5	4993.4	5026.3	5413.8	5911.8
20°	4375.2	4367.5	4346.2	4371.4	4396.6	4508.9	4677.5	4933.3	4970.1	5380.9	5935.1
22.5°	4524.4	4510.9	4477.9	4446.9	4414.0	4481.8	4638.8	4888.7	4925.5	5359.6	5958.3
25°	4751.2	4739.5	4704.6	4634.9	4514.8	4503.1	4631.0	4869.3	4906.2	5344.1	5968.0
27.5°	5063.1	5045.7	5010.8	4910.0	4714.3	4582.6	4660.1	4867.4	4902.3	5326.6	5958.3
30°	5433.2	5421.6	5402.2	5280.1	5018.5	4751.2	4726.0	4882.9	4910.0	5316.9	5938.9
32.5°	5809.1	5797.5	5813.0	5754.9	5433.2	5030.2	4869.3	4925.5	4944.9	5315.0	5921.5
35°	6140.5	6154.0	6266.4	6276.1	5960.3	5408.0	5096.1	5024.4	5028.2	5353.8	5929.3
37.5°	6487.3	6539.6	6686.9	6812.8	6549.3	5907.9	5433.2	5210.4	5206.5	5452.6	5977.7
40°	6946.5	6969.8	7157.7	7394.1	7229.4	6593.9	5911.8	5514.6	5487.5	5654.1	6107.5
42.5°	7394.1	7450.3	7750.7	8021.9	7967.7	7367.0	6514.4	5969.9	5921.5	6010.6	6374.9
45°	7963.8	8018.1	8355.2	8704.0	8802.8	8240.9	7285.6	6617.1	6568.7	6547.4	6865.1
47.5°	8533.5	8589.7	8891.9	9395.7	9742.6	9333.7	8289.3	7471.6	7392.2	7308.9	7605.3
50°	8917.1	8983.0	9271.7	9876.3	10690.1	10697.8	9479.0	8591.6	8490.8	8359.1	8647.8
52.5°	8903.6	8946.2	9221.3	9918.9	11372.1	12265.4	11071.8	10017.7	9936.3	9649.6	9901.5
55°	8204.1	8268.0	8545.1	9417.0	11445.8	13751.6	13412.5	11699.6	11554.3	11040.8	11317.9
57.5°	6799.3	6853.5	7132.5	8207.9	10792.8	14513.1	16384.9	13842.7	13643.1	12556.1	12875.8
60°	5132.9	5067.0	5198.8	6140.5	9231.0	14532.5	19008.5	16749.2	16415.9	14175.9	14443.3
62.5°	3852.1	3786.2	3815.3	4080.7	6258.7	13358.3	20504.4	20725.2	20175.0	16005.1	15952.8
65°	3044.1	3007.3	3090.6	3272.7	3648.6	10172.7	20516.0	25024.9	24678.1	18124.9	17501.0
67.5°	2480.2	2457.0	2542.2	2879.4	2958.8	5466.1	18396.2	27032.3	27168.0	20446.2	18936.8
70°	1997.7	1962.9	2096.6	2540.3	2751.5	3307.6	13178.0	26009.3	26228.2	21829.7	18531.8
72.5°	1379.6	1381.6	1449.4	2057.8	2656.5	2856.1	7454.2	21657.3	22132.0	20576.0	16291.9
75°	930.1	937.8	957.2	1358.3	2447.3	2770.9	3972.2	16396.5	16731.7	17006.9	13466.8
77.5°	561.9	565.8	610.4	821.6	1687.7	2586.8	2691.4	11885.6	12149.2	11211.3	8347.5
80°	325.5	339.1	379.8	550.3	1139.3	1943.5	2083.0	7287.6	7586.0	4983.7	2652.7
82.5°	143.4	153.1	207.3	319.7	664.6	1652.8	1625.7	2879.4	2836.7	1389.3	920.4
85°	25.2	31.0	44.6	100.8	244.1	871.9	1261.4	1271.1	1195.5	527.0	381.7
87.5°	0.0	0.0	0.0	0.0	0.0	5.8	189.9	341.0	339.1	149.2	131.8
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°	5869.2	5869.2	5869.2	5869.2	5869.2	5869.2	5869.2	5869.2	5869.2	5869.2	5869.2
2.5°	5898.2	5845.9	5892.4	5898.2	5888.6	5880.8	5822.7	5772.3	5766.5	5712.2	5712.2
5°	5919.6	5871.1	5894.4	5849.8	5780.1	5708.4	5584.3	5499.1	5460.3	5390.6	5390.6
7.5°	5948.6	5898.2	5871.1	5760.7	5597.9	5441.0	5241.4	5074.7	5006.9	4908.1	4904.2
10°	5975.8	5911.8	5818.8	5603.7	5344.1	5094.1	4803.5	4567.1	4406.2	4288.0	4288.0
12.5°	5973.8	5890.5	5706.4	5388.6	5030.2	4667.8	4280.3	3923.8	3710.6	3526.5	3514.9
15°	5969.9	5855.6	5563.0	5138.7	4664.0	4162.1	3635.1	3170.0	2854.2	2674.0	2658.5
17.5°	5966.1	5811.1	5402.2	4853.8	4218.3	3534.3	2838.7	2334.9	2071.4	1960.9	1964.8
20°	5966.1	5760.7	5229.8	4526.4	3704.8	2782.5	2083.0	1716.8	1650.9	1656.7	1662.5
22.5°	5948.6	5698.7	5037.9	4169.9	3133.2	2046.2	1536.6	1412.6	1447.4	1501.7	1509.4
25°	5907.9	5596.0	4815.1	3774.6	2453.1	1490.1	1253.7	1230.4	1294.4	1362.2	1381.6
27.5°	5844.0	5477.8	4565.1	3311.5	1805.9	1197.5	1102.5	1100.6	1151.0	1201.4	1218.8
30°	5776.2	5346.0	4301.6	2796.0	1307.9	1042.5	1005.6	1005.6	1030.8	1061.8	1058.0
32.5°	5696.7	5212.3	4018.7	2259.3	1065.7	955.3	943.6	937.8	941.7	953.3	953.3
35°	5628.9	5094.1	3728.1	1691.6	955.3	906.8	895.2	881.6	875.8	868.1	871.9
37.5°	5603.7	5001.1	3427.7	1275.0	901.0	871.9	852.6	833.2	819.6	815.8	813.8
40°	5644.4	4962.4	3127.4	1050.2	862.3	835.1	813.8	788.6	777.0	777.0	777.0
42.5°	5803.3	4991.4	2821.2	949.5	835.1	804.1	773.1	749.9	746.0	749.9	751.8
45°	6094.0	5103.8	2503.5	899.1	811.9	773.1	736.3	718.9	718.9	722.7	722.7
47.5°	6613.2	5398.3	2189.6	868.1	788.6	747.9	709.2	691.7	689.8	693.7	693.7
50°	7512.3	5929.3	1906.7	846.8	771.2	728.6	689.8	666.6	660.7	658.8	658.8
52.5°	8645.9	6849.6	1726.5	831.3	749.9	707.2	668.5	637.5	625.9	620.1	620.1
55°	10015.8	8076.2	1726.5	819.6	722.7	682.1	637.5	606.5	589.0	581.3	581.3
57.5°	11567.9	9504.2	2024.9	809.9	701.4	653.0	604.6	573.5	554.2	542.5	542.5
60°	13147.0	11013.7	2763.1	796.4	682.1	616.2	567.7	538.7	513.5	499.9	498.0
62.5°	14784.4	12676.2	3735.8	804.1	668.5	581.3	529.0	496.0	474.7	461.2	459.2
65°	16284.1	14259.3	4586.4	864.2	670.4	550.3	484.4	455.4	437.9	420.5	418.5
67.5°	17557.2	15133.2	3989.6	986.3	711.1	513.5	439.8	410.8	395.3	383.7	381.7
70°	16665.8	13800.0	2263.2	1061.8	767.3	474.7	389.5	370.1	354.6	346.8	344.9
72.5°	14251.5	11684.1	1513.3	937.8	699.5	424.3	343.0	327.5	315.8	306.2	304.2
75°	11544.6	9265.9	1156.8	769.3	544.5	344.9	294.5	282.9	271.3	261.6	259.6
77.5°	6830.3	5353.8	852.6	608.4	383.7	269.3	244.1	234.5	222.8	215.1	213.1
80°	2179.9	1860.2	540.6	418.5	253.8	207.3	188.0	180.2	168.6	158.9	157.0
82.5°	831.3	718.9	286.8	213.1	168.6	141.4	125.9	118.2	110.4	100.8	98.8
85°	368.2	344.9	158.9	114.3	91.1	69.8	62.0	58.1	48.4	40.7	38.8
87.5°	129.8	129.8	67.8	32.9	19.4	9.7	5.8	1.9	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)