

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: P637761

Luminaire Tested: GWS-SA4D-740-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637761
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-SA4D-740-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23994.8 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

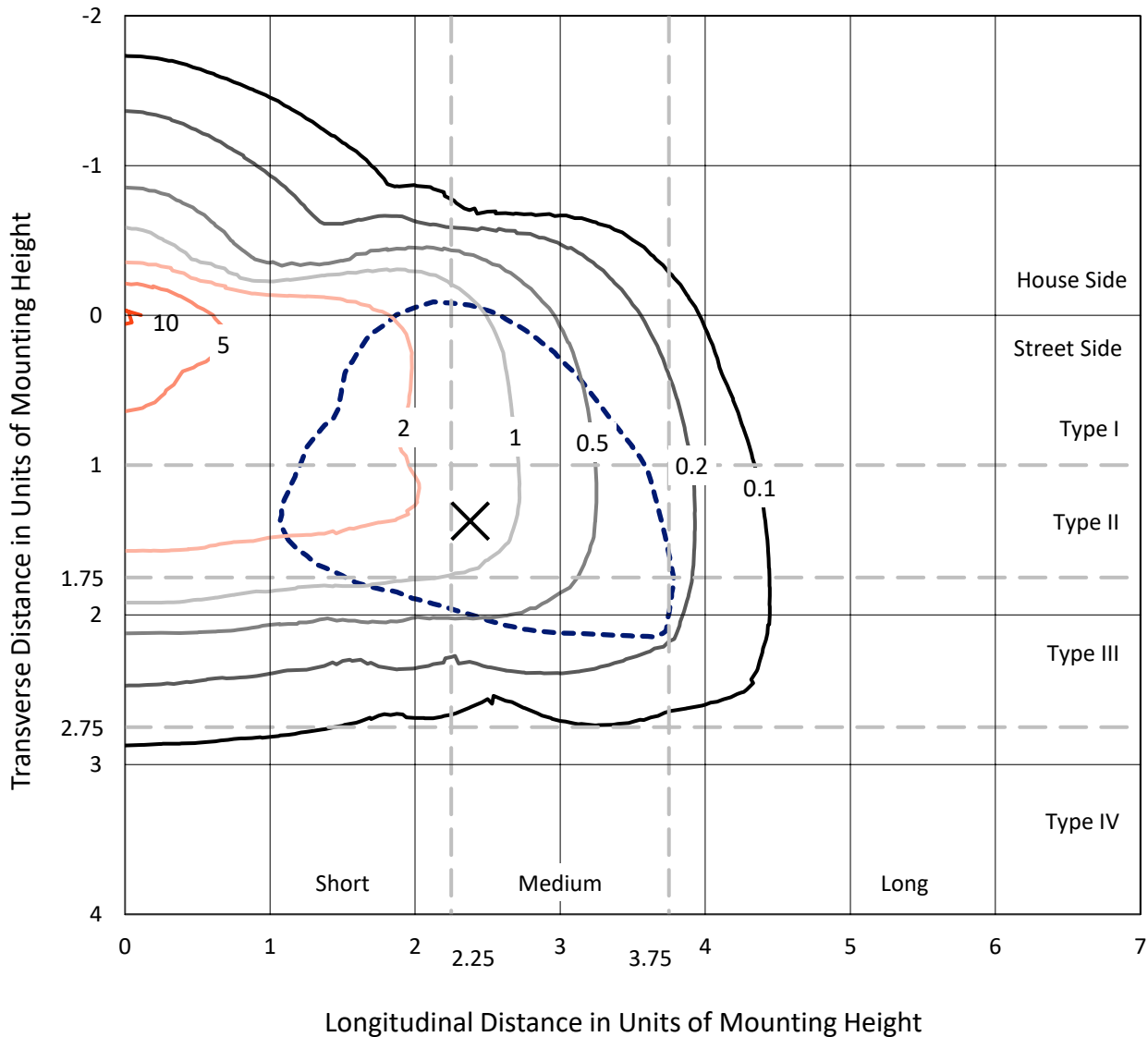
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

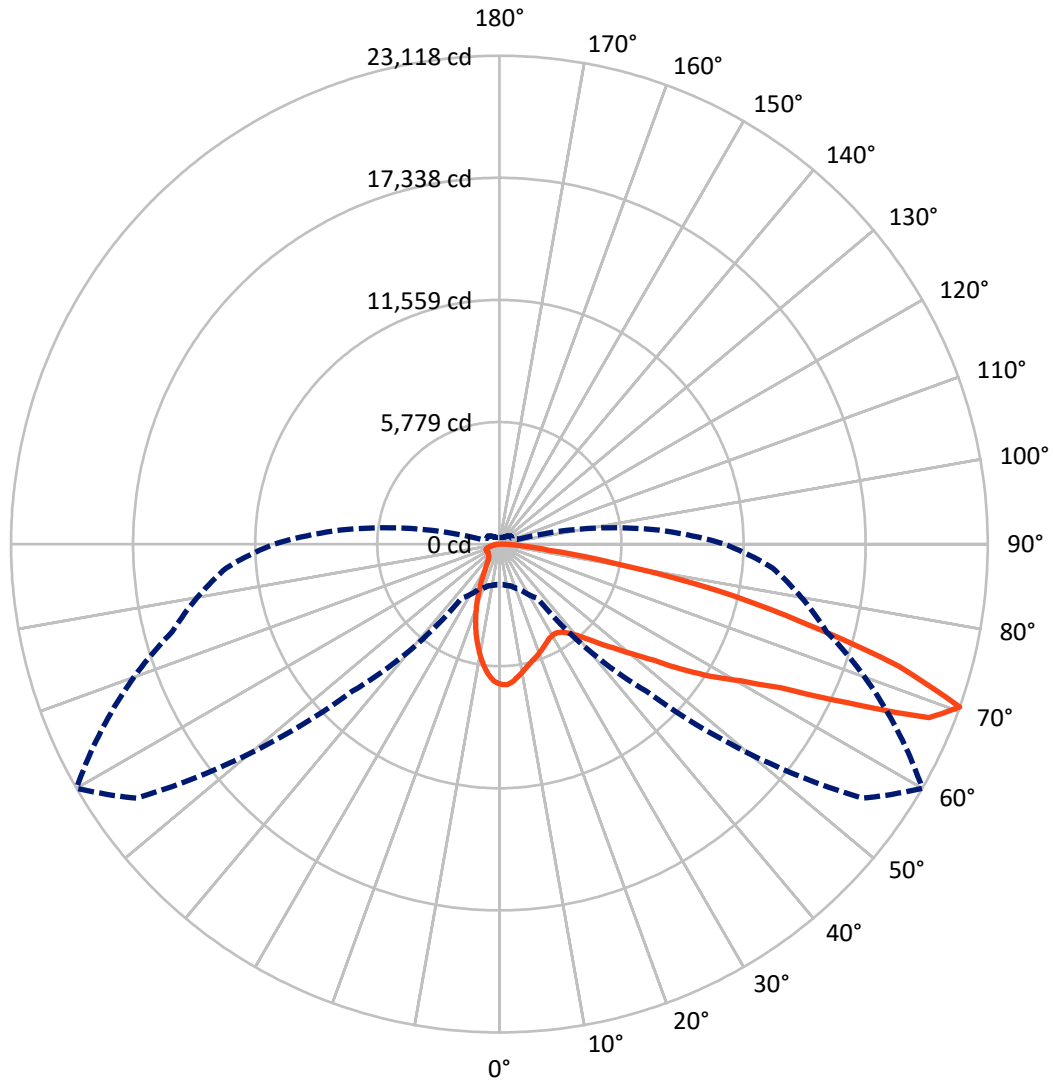
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	4103.7	0.0	4103.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	19891.1	0.0	19891.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	23994.8	0.0	23994.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.3	2.4
10°-20°	1282.2	5.3
20°-30°	1642.0	6.8
30°-40°	2158.0	9.0
40°-50°	3130.9	13.0
50°-60°	4885.0	20.4
60°-70°	6395.4	26.7
70°-80°	3536.5	14.7
80°-90°	392.5	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°	23994.8	100.0
0°-180°	23994.8	100.0

Coefficient of Utilization



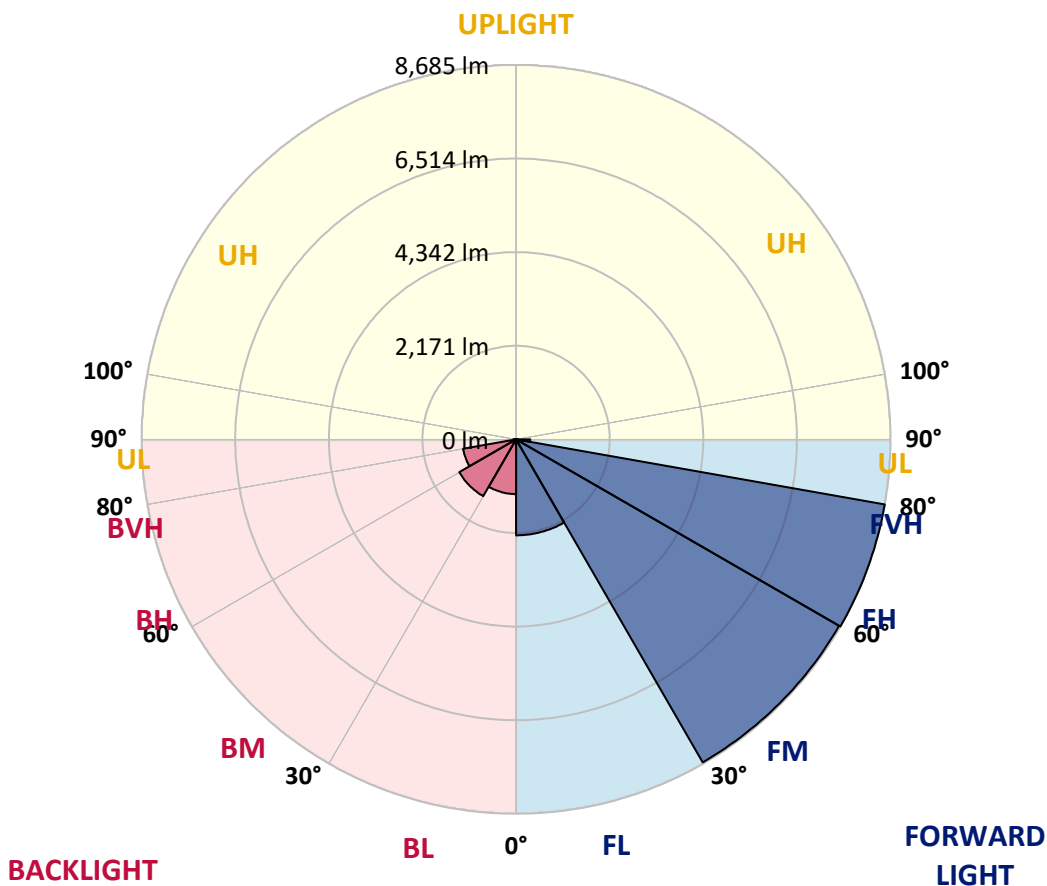
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2226.9	9.3			
FM (30°-60°)	8652.4	36.1			
FH (60°-80°)	8684.8	36.2			G4/12000
FVH (80°-90°)	327.0	1.4			G3/500
BL (0°-30°)	1269.6	5.3	B3/2500		
BM (30°-60°)	1521.5	6.3	B2/2500		
BH (60°-80°)	1247.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	65.4	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°	6639.7	6639.7	6639.7	6639.7	6639.7	6639.7	6639.7	6639.7	6639.7	6639.7	6639.7
2.5°	6546.6	6553.6	6573.0	6601.0	6629.1	6643.2	6678.3	6667.8	6660.7	6646.7	6629.1
5°	6257.0	6271.0	6288.6	6343.0	6404.4	6453.6	6532.6	6541.4	6544.9	6551.9	6523.8
7.5°	5888.3	5891.8	5933.9	6005.9	6086.7	6170.9	6302.6	6339.5	6371.1	6406.2	6383.4
10°	5481.0	5489.8	5521.4	5624.9	5763.6	5888.3	6065.6	6127.0	6193.7	6271.0	6239.4
12.5°	5147.4	5149.2	5200.1	5310.7	5461.7	5630.2	5851.4	5925.1	6012.9	6134.1	6106.0
15°	4882.3	4882.3	4929.7	5024.5	5198.3	5396.7	5660.0	5754.9	5874.2	6037.5	5988.3
17.5°	4671.6	4673.4	4703.2	4803.3	4957.8	5177.3	5489.8	5617.9	5749.6	5965.5	5891.8
20°	4561.0	4552.3	4557.5	4619.0	4750.6	4963.1	5319.5	5468.7	5646.0	5916.4	5804.0
22.5°	4555.8	4540.0	4517.2	4522.4	4599.7	4775.2	5136.9	5317.7	5540.7	5876.0	5714.5
25°	4645.3	4627.8	4587.4	4541.7	4534.7	4640.0	4964.8	5170.2	5431.8	5858.4	5628.4
27.5°	4796.3	4784.0	4731.3	4662.9	4590.9	4587.4	4834.9	5049.1	5352.8	5876.0	5567.0
30°	4996.4	4975.4	4942.0	4854.2	4745.4	4633.0	4784.0	4984.1	5300.2	5932.2	5540.7
32.5°	5222.9	5210.6	5179.0	5091.2	4975.4	4796.3	4824.4	4998.2	5300.2	6030.5	5545.9
35°	5463.4	5461.7	5461.7	5403.7	5275.6	5052.6	4984.1	5117.6	5380.9	6188.5	5602.1
37.5°	5696.9	5695.2	5751.3	5772.4	5626.7	5386.2	5256.3	5356.3	5558.2	6422.0	5740.8
40°	5886.5	5893.5	6016.4	6121.8	6041.0	5818.1	5635.5	5686.4	5846.1	6753.8	5983.1
42.5°	6077.9	6097.2	6281.5	6467.6	6499.2	6306.1	6121.8	6151.6	6258.7	7192.7	6344.7
45°	6286.8	6295.6	6553.6	6813.5	6966.2	6852.1	6701.1	6741.5	6766.1	7735.2	6883.7
47.5°	6488.7	6511.5	6845.1	7201.5	7491.1	7480.6	7396.3	7384.0	7389.3	8395.3	7521.0
50°	6764.3	6797.7	7189.2	7619.3	8044.2	8239.0	8263.6	8170.6	8131.9	9129.1	8314.5
52.5°	7287.5	7287.5	7638.6	8061.7	8632.3	9115.1	9280.1	9127.4	9004.5	9905.1	9157.2
55°	7942.3	7970.4	8249.6	8591.9	9315.2	10036.8	10595.0	10426.5	10078.9	10749.5	10040.3
57.5°	8233.8	8268.9	8711.3	9243.2	10208.8	11084.8	11859.1	11799.4	11292.0	11627.3	10956.7
60°	7707.1	7780.8	8390.0	9281.8	11018.1	12775.5	13321.5	13147.7	12422.6	12549.0	11950.4
62.5°	6429.0	6509.8	7185.7	8430.4	10905.8	14603.1	15626.6	14985.8	13834.1	13713.0	13274.1
65°	3836.0	3832.5	4645.3	6295.6	9520.6	15110.4	19274.7	18079.1	16014.6	15310.6	14636.4
67.5°	2438.5	2433.3	2603.6	3335.6	6336.0	13867.5	21620.2	21930.9	18976.3	16485.1	14748.8
70°	1924.1	1922.4	2045.3	2378.8	3133.7	9868.2	20967.1	23117.7	20765.2	16037.4	12986.2
72.5°	1402.7	1406.2	1595.8	1992.6	2417.5	4954.3	16978.4	19780.3	19099.2	14157.1	10542.4
75°	1007.7	1013.0	1127.1	1525.6	2229.6	2708.9	11290.3	14873.4	14531.1	11348.2	7252.4
77.5°	640.8	647.8	747.9	1069.2	1801.2	2187.5	6845.1	10500.2	9668.1	6393.9	2579.0
80°	391.5	414.3	498.6	797.0	1439.6	1641.5	3421.7	5531.9	4841.9	1753.8	867.3
82.5°	201.9	219.4	300.2	493.3	991.9	1441.3	1936.4	2324.4	1499.3	733.8	461.7
85°	63.2	73.7	105.3	200.1	472.3	893.6	1281.6	1155.2	688.2	345.9	214.2
87.5°	15.8	15.8	17.6	17.6	19.3	40.4	247.5	261.6	182.6	108.8	87.8
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°	6639.7	6639.7	6639.7	6639.7	6639.7	6639.7	6639.7	6639.7	6639.7	6639.7	6639.7
2.5°	6594.0	6551.9	6534.3	6532.6	6488.7	6425.5	6383.4	6353.5	6336.0	6332.4	6332.4
5°	6476.4	6422.0	6350.0	6295.6	6177.9	6058.6	5958.5	5902.3	5837.4	5828.6	5826.8
7.5°	6320.2	6241.2	6104.2	5951.5	5746.1	5547.7	5379.2	5265.0	5150.9	5129.9	5122.8
10°	6151.6	6044.5	5811.0	5542.4	5235.2	4938.5	4680.4	4478.5	4345.1	4250.3	4232.7
12.5°	5984.8	5842.6	5500.3	5100.0	4678.7	4273.1	3885.1	3555.1	3316.3	3177.6	3153.1
15°	5828.6	5630.2	5161.5	4650.6	4102.8	3548.1	2998.6	2570.2	2234.9	2115.5	2087.4
17.5°	5686.4	5438.8	4833.2	4185.3	3502.4	2777.4	2152.4	1771.4	1574.8	1515.1	1501.0
20°	5544.2	5242.2	4499.6	3695.5	2865.1	2052.3	1573.0	1393.9	1320.2	1297.4	1290.4
22.5°	5391.4	5026.3	4136.2	3212.7	2220.8	1536.1	1286.9	1207.9	1185.0	1186.8	1185.0
25°	5238.7	4806.8	3755.2	2687.8	1653.8	1246.5	1123.6	1093.7	1099.0	1114.8	1118.3
27.5°	5112.3	4612.0	3381.3	2112.0	1292.1	1072.7	1014.7	1013.0	1032.3	1053.4	1056.9
30°	5021.0	4438.2	3012.6	1623.9	1063.9	953.3	930.5	941.0	963.8	979.6	984.9
32.5°	4956.1	4288.9	2619.4	1276.3	932.2	869.0	858.5	869.0	883.1	898.9	902.4
35°	4933.2	4180.1	2233.1	1041.1	842.7	807.6	800.6	805.8	812.8	821.6	825.1
37.5°	4984.1	4125.7	1829.3	905.9	788.3	767.2	756.7	753.2	754.9	758.4	760.2
40°	5135.1	4150.2	1499.3	826.9	753.2	733.8	716.3	709.3	707.5	711.0	709.3
42.5°	5395.0	4253.8	1260.5	781.2	725.1	697.0	677.7	670.6	670.6	679.4	679.4
45°	5775.9	4457.5	1088.5	747.9	700.5	665.4	644.3	640.8	647.8	661.9	663.6
47.5°	6334.2	4755.9	984.9	723.3	677.7	637.3	616.2	614.5	628.5	651.3	653.1
50°	6996.1	5186.0	928.7	705.8	661.9	614.5	593.4	595.1	610.9	635.5	640.8
52.5°	7793.1	5772.4	932.2	698.7	653.1	600.4	579.3	575.8	591.6	616.2	621.5
55°	8616.5	6485.2	1000.7	700.5	640.8	593.4	565.3	553.0	567.1	584.6	586.4
57.5°	9522.4	7289.2	1171.0	697.0	625.0	586.4	553.0	524.9	533.7	544.2	549.5
60°	10544.1	8235.5	1537.9	704.0	618.0	570.6	528.4	491.6	489.8	496.8	498.6
62.5°	11910.0	9522.4	1950.5	716.3	633.8	551.3	491.6	452.9	445.9	449.4	451.2
65°	12954.6	10136.8	1820.6	705.8	667.1	537.2	456.5	416.1	402.0	398.5	398.5
67.5°	12529.7	9324.0	1267.5	677.7	682.9	539.0	428.4	377.5	359.9	351.1	349.4
70°	10661.7	7573.6	881.3	649.6	665.4	535.5	398.5	345.9	323.0	310.7	309.0
72.5°	8423.4	5782.9	712.8	593.4	603.9	482.8	354.6	310.7	291.4	275.6	275.6
75°	5421.3	3528.8	595.1	528.4	493.3	375.7	307.2	277.4	258.1	242.3	242.3
77.5°	1824.1	1309.7	461.7	447.7	368.7	282.7	258.1	238.8	223.0	208.9	207.2
80°	740.9	621.5	338.8	338.8	258.1	215.9	201.9	193.1	182.6	165.0	165.0
82.5°	430.1	377.5	237.0	205.4	172.0	149.2	140.4	131.7	131.7	119.4	119.4
85°	207.2	208.9	142.2	126.4	98.3	86.0	82.5	77.2	75.5	68.5	66.7
87.5°	112.4	114.1	72.0	56.2	38.6	33.4	28.1	26.3	24.6	22.8	22.8
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)