

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: P638472

Luminaire Tested: GWS-SA4E-830-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638472
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-SA4E-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: 23889.5 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

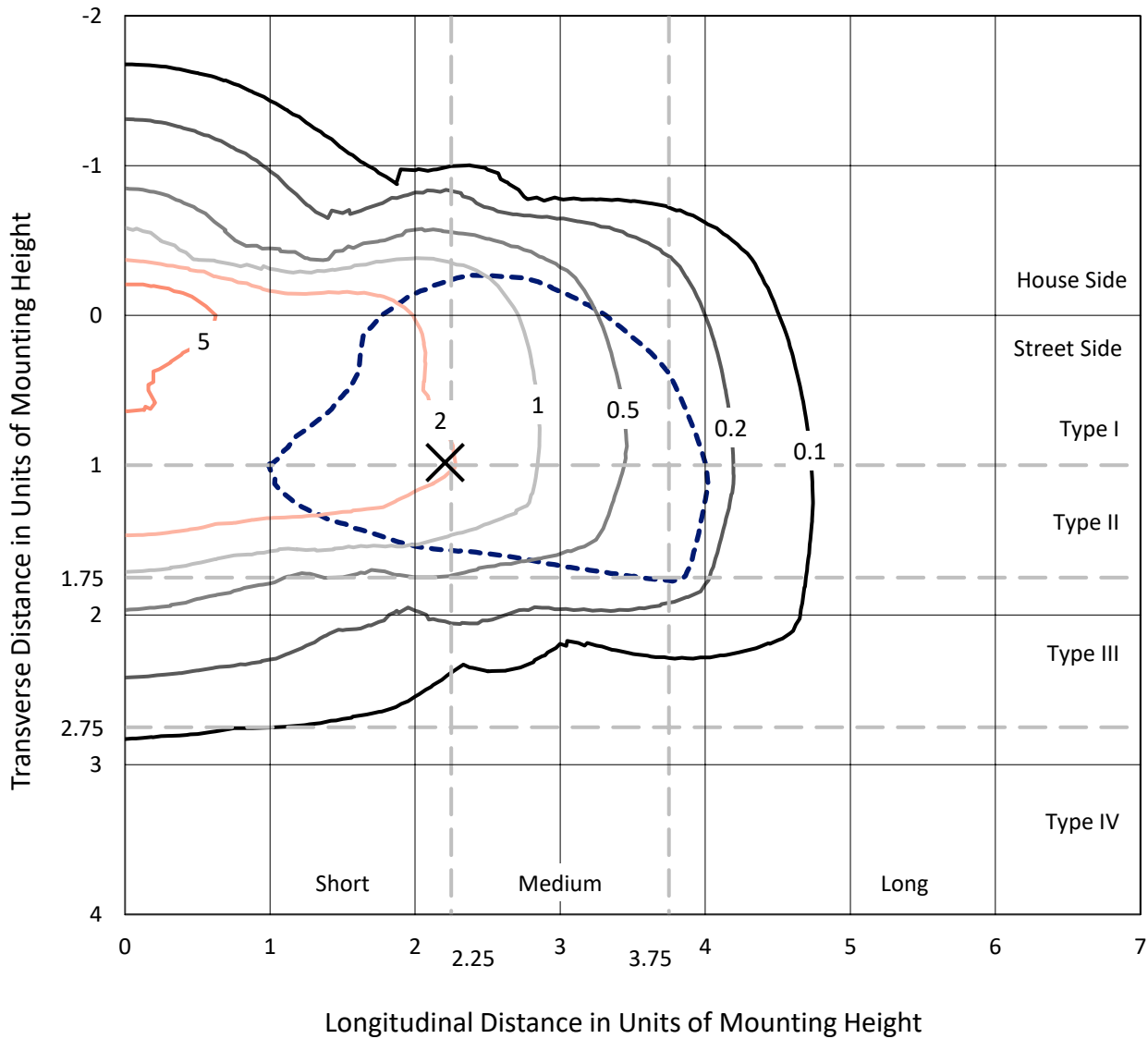
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

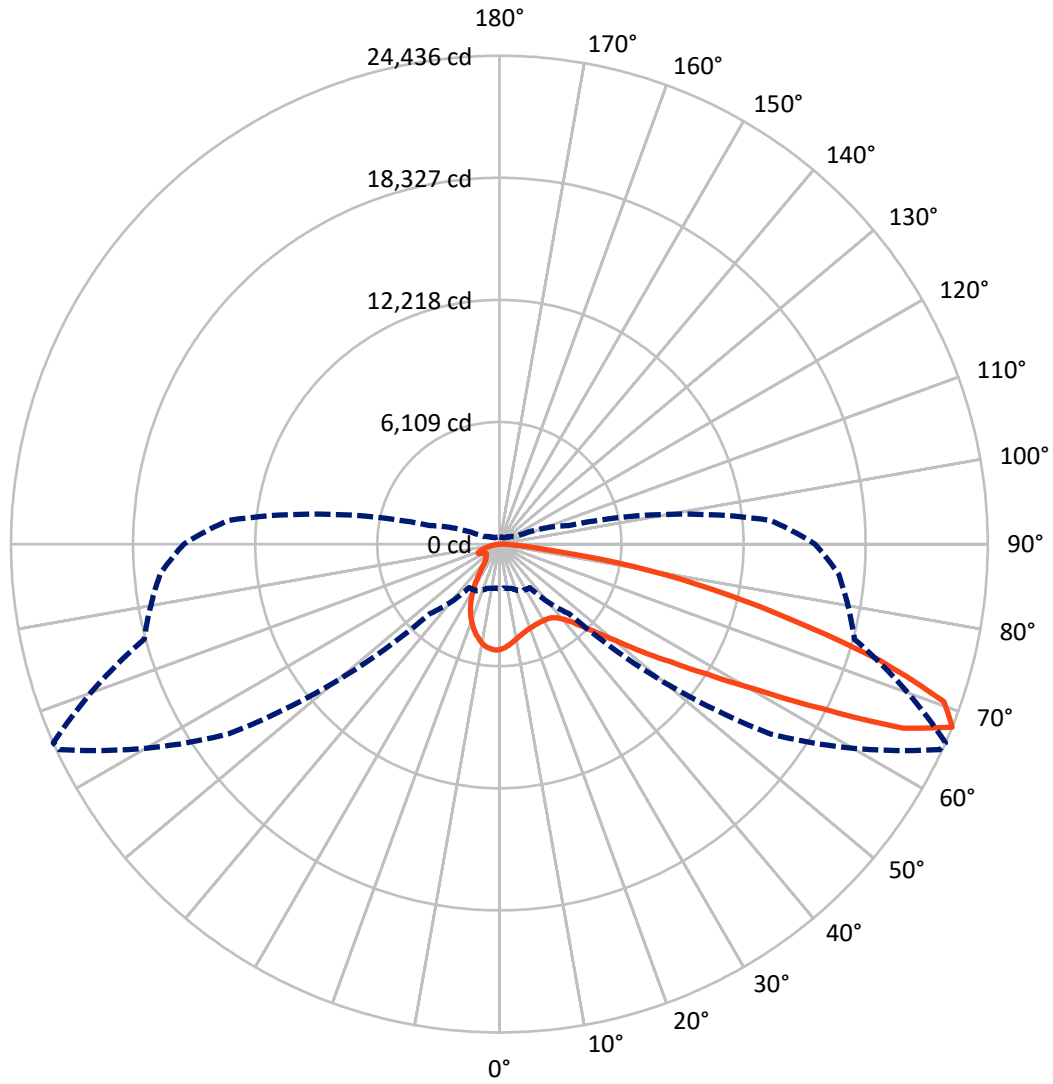
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	4847.7	0.0	4847.7
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	19041.8	0.0	19041.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	23889.5	0.0	23889.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.3	1.9
10°-20°	1138.6	4.8
20°-30°	1565.0	6.6
30°-40°	2139.7	9.0
40°-50°	3242.1	13.6
50°-60°	5040.0	21.1
60°-70°	6136.1	25.7
70°-80°	3737.8	15.6
80°-90°	427.0	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°	23889.5	100.0
0°-180°	23889.5	100.0

Coefficient of Utilization



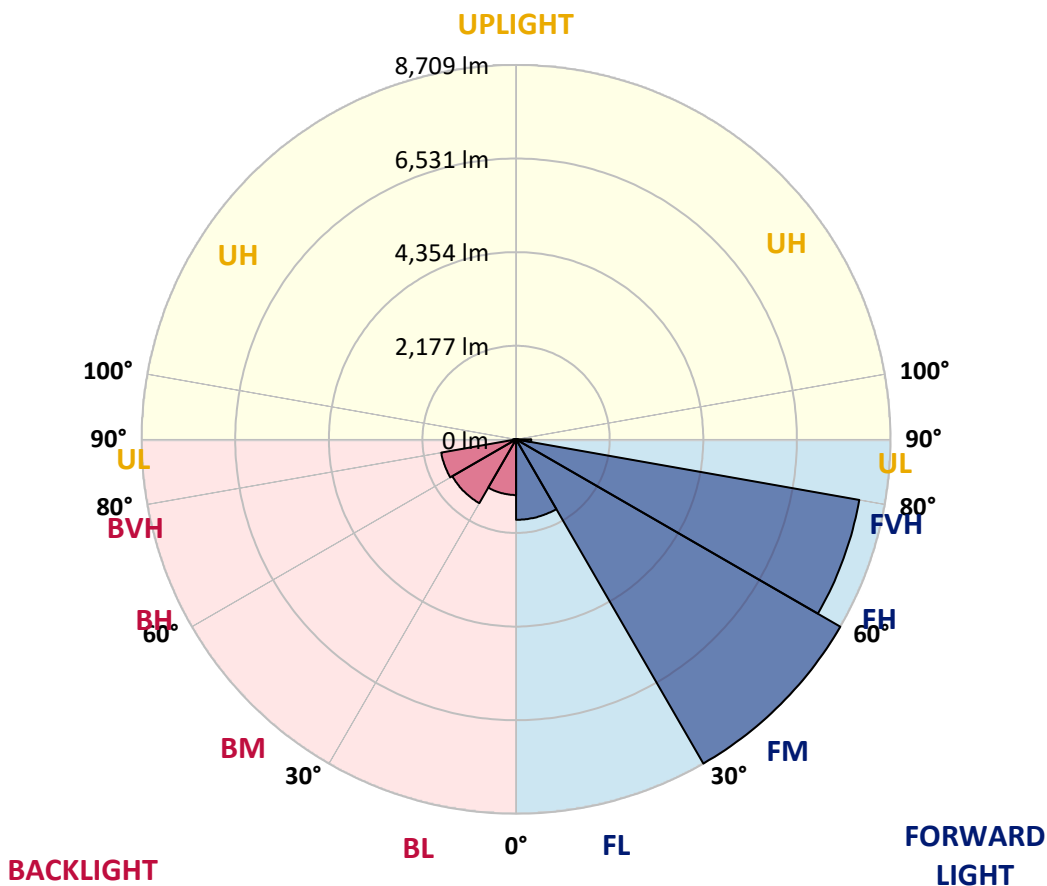
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1871.9	7.8			
FM (30°-60°)	8708.6	36.5			
FH (60°-80°)	8106.3	33.9			G4/12000
FVH (80°-90°)	355.0	1.5			G3/500
BL (0°-30°)	1295.1	5.4	B3/2500		
BM (30°-60°)	1713.1	7.2	B2/2500		
BH (60°-80°)	1767.6	7.4	B3/2500		G3/2500
BVH (80°-90°)	72.0	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°	5278.9	5278.9	5278.9	5278.9	5278.9	5278.9	5278.9	5278.9	5278.9	5278.9	5278.9
2.5°	4944.3	4961.7	4951.3	5017.5	5021.0	5104.6	5151.7	5191.8	5195.2	5247.5	5282.4
5°	4606.2	4616.6	4616.6	4679.4	4721.2	4832.7	4940.8	5055.8	5064.5	5190.0	5285.9
7.5°	4332.6	4343.0	4336.1	4419.7	4473.7	4597.5	4735.2	4911.2	4928.6	5130.8	5298.1
10°	4118.2	4114.7	4132.1	4208.8	4278.5	4426.7	4580.0	4780.5	4806.6	5062.8	5312.0
12.5°	3971.8	3975.3	3985.8	4065.9	4140.9	4287.3	4445.8	4663.7	4691.6	4984.4	5305.0
15°	3902.1	3895.1	3903.8	3977.0	4048.5	4177.5	4341.3	4566.1	4594.0	4914.7	5306.8
17.5°	3886.4	3881.2	3879.4	3931.7	3985.8	4106.0	4262.9	4491.2	4520.8	4869.3	5317.2
20°	3935.2	3928.2	3909.1	3931.7	3954.4	4055.5	4207.1	4437.1	4470.2	4839.7	5338.2
22.5°	4069.4	4057.2	4027.6	3999.7	3970.1	4031.1	4172.2	4397.1	4430.2	4820.5	5359.1
25°	4273.3	4262.9	4231.5	4168.7	4060.7	4050.2	4165.3	4379.6	4412.7	4806.6	5367.8
27.5°	4553.9	4538.2	4506.8	4416.2	4240.2	4121.7	4191.4	4377.9	4409.3	4790.9	5359.1
30°	4886.8	4876.3	4858.9	4749.1	4513.8	4273.3	4250.7	4391.8	4416.2	4782.2	5341.6
32.5°	5224.9	5214.4	5228.4	5176.1	4886.8	4524.3	4379.6	4430.2	4447.6	4780.5	5326.0
35°	5522.9	5535.1	5636.2	5644.9	5360.8	4864.1	4583.5	4519.0	4522.5	4815.3	5332.9
37.5°	5834.9	5881.9	6014.4	6127.6	5890.6	5313.8	4886.8	4686.4	4682.9	4904.2	5376.5
40°	6247.9	6268.8	6437.9	6650.5	6502.3	5930.7	5317.2	4960.0	4935.6	5085.5	5493.3
42.5°	6650.5	6701.0	6971.1	7215.1	7166.3	6626.1	5859.2	5369.5	5326.0	5406.1	5733.8
45°	7162.9	7211.7	7514.9	7828.6	7917.5	7412.1	6552.9	5951.6	5908.0	5888.9	6174.7
47.5°	7675.2	7725.8	7997.6	8450.8	8762.7	8395.0	7455.6	6720.2	6648.7	6573.8	6840.4
50°	8020.3	8079.6	8339.2	8883.0	9615.0	9621.9	8525.7	7727.5	7636.9	7518.4	7778.1
52.5°	8008.1	8046.4	8293.9	8921.3	10228.4	11031.8	9958.3	9010.2	8937.0	8679.1	8905.6
55°	7379.0	7436.5	7685.7	8469.9	10294.6	12368.6	12063.6	10522.9	10392.2	9930.4	10179.6
57.5°	6115.4	6164.2	6415.2	7382.4	9707.3	13053.5	14737.0	12450.5	12271.0	11293.3	11580.8
60°	4616.6	4557.4	4675.9	5522.9	8302.6	13070.9	17096.7	15064.6	14764.9	12750.2	12990.7
62.5°	3464.7	3405.4	3431.5	3670.3	5629.2	12014.8	18442.2	18640.8	18145.9	14395.4	14348.4
65°	2737.9	2704.8	2779.7	2943.6	3281.7	9149.6	18452.6	22508.1	22196.1	16302.0	15740.9
67.5°	2230.8	2209.9	2286.5	2589.8	2661.2	4916.4	16546.0	24313.6	24435.6	18389.9	17032.3
70°	1796.8	1765.4	1885.7	2284.8	2474.8	2974.9	11852.7	23393.4	23590.4	19634.2	16668.0
72.5°	1240.9	1242.6	1303.6	1850.8	2389.4	2568.9	6704.5	19479.1	19906.1	18506.7	14653.4
75°	836.5	843.5	860.9	1221.7	2201.1	2492.2	3572.7	14747.5	15049.0	15296.4	12112.4
77.5°	505.4	508.9	549.0	738.9	1518.0	2326.6	2420.7	10690.3	10927.3	10083.8	7507.9
80°	292.8	305.0	341.6	495.0	1024.8	1748.0	1873.5	6554.6	6823.0	4482.4	2385.9
82.5°	129.0	137.7	186.5	287.6	597.8	1486.6	1462.2	2589.8	2551.4	1249.6	827.8
85°	22.7	27.9	40.1	90.6	219.6	784.3	1134.6	1143.3	1075.3	474.0	343.3
87.5°	0.0	0.0	0.0	0.0	0.0	5.2	170.8	306.7	305.0	134.2	118.5
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°	5278.9	5278.9	5278.9	5278.9	5278.9	5278.9	5278.9	5278.9	5278.9	5278.9	5278.9
2.5°	5305.0	5258.0	5299.8	5305.0	5296.3	5289.4	5237.1	5191.8	5186.5	5137.7	5137.7
5°	5324.2	5280.6	5301.6	5261.5	5198.7	5134.2	5022.7	4946.0	4911.2	4848.4	4848.4
7.5°	5350.4	5305.0	5280.6	5181.3	5034.9	4893.7	4714.2	4564.4	4503.4	4414.5	4411.0
10°	5374.8	5317.2	5233.6	5040.1	4806.6	4581.8	4320.4	4107.7	3963.1	3856.8	3856.8
12.5°	5373.0	5298.1	5132.5	4846.7	4524.3	4198.4	3849.8	3529.1	3337.4	3171.9	3161.4
15°	5369.5	5266.7	5003.5	4621.9	4194.9	3743.5	3269.5	2851.2	2567.1	2405.0	2391.1
17.5°	5366.0	5226.6	4858.9	4365.7	3794.0	3178.8	2553.2	2100.1	1863.0	1763.7	1767.2
20°	5366.0	5181.3	4703.8	4071.1	3332.2	2502.6	1873.5	1544.1	1484.9	1490.1	1495.3
22.5°	5350.4	5125.5	4531.2	3750.5	2818.1	1840.4	1382.0	1270.5	1301.9	1350.7	1357.6
25°	5313.8	5033.2	4330.8	3394.9	2206.4	1340.2	1127.6	1106.7	1164.2	1225.2	1242.6
27.5°	5256.2	4926.9	4106.0	2978.4	1624.3	1077.0	991.6	989.9	1035.2	1080.5	1096.2
30°	5195.2	4808.3	3869.0	2514.8	1176.4	937.6	904.5	904.5	927.2	955.0	951.6
32.5°	5123.8	4688.1	3614.5	2032.1	958.5	859.2	848.7	843.5	847.0	857.5	857.5
35°	5062.8	4581.8	3353.1	1521.5	859.2	815.6	805.2	793.0	787.7	780.8	784.3
37.5°	5040.1	4498.1	3083.0	1146.8	810.4	784.3	766.8	749.4	737.2	733.7	732.0
40°	5076.7	4463.3	2812.9	944.6	775.5	751.1	732.0	709.3	698.9	698.9	698.9
42.5°	5219.6	4489.4	2537.5	854.0	751.1	723.3	695.4	674.5	671.0	674.5	676.2
45°	5481.1	4590.5	2251.7	808.7	730.2	695.4	662.3	646.6	646.6	650.1	650.1
47.5°	5948.1	4855.4	1969.3	780.8	709.3	672.7	637.9	622.2	620.4	623.9	623.9
50°	6756.8	5332.9	1714.9	761.6	693.6	655.3	620.4	599.5	594.3	592.5	592.5
52.5°	7776.3	6160.8	1552.8	747.7	674.5	636.1	601.3	573.4	562.9	557.7	557.7
55°	9008.5	7263.9	1552.8	737.2	650.1	613.5	573.4	545.5	529.8	522.8	522.8
57.5°	10404.4	8548.4	1821.2	728.5	630.9	587.3	543.7	515.9	498.4	488.0	488.0
60°	11824.8	9906.0	2485.2	716.3	613.5	554.2	510.6	484.5	461.8	449.6	447.9
62.5°	13297.5	11401.3	3360.1	723.3	601.3	522.8	475.8	446.2	427.0	414.8	413.0
65°	14646.4	12825.2	4125.2	777.3	603.0	495.0	435.7	409.6	393.9	378.2	376.4
67.5°	15791.4	13611.2	3588.4	887.1	639.6	461.8	395.6	369.5	355.5	345.1	343.3
70°	14989.7	12412.1	2035.6	955.0	690.1	427.0	350.3	332.9	318.9	312.0	310.2
72.5°	12818.2	10509.0	1361.1	843.5	629.1	381.7	308.5	294.5	284.1	275.4	273.6
75°	10383.5	8334.0	1040.4	691.9	489.7	310.2	264.9	254.4	244.0	235.3	233.5
77.5°	6143.3	4815.3	766.8	547.2	345.1	242.2	219.6	210.9	200.4	193.4	191.7
80°	1960.6	1673.1	486.2	376.4	228.3	186.5	169.1	162.1	151.6	142.9	141.2
82.5°	747.7	646.6	257.9	191.7	151.6	127.2	113.3	106.3	99.3	90.6	88.9
85°	331.1	310.2	142.9	102.8	81.9	62.7	55.8	52.3	43.6	36.6	34.9
87.5°	116.8	116.8	61.0	29.6	17.4	8.7	5.2	1.7	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)