

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: P637867

Luminaire Tested: GWS-SA4D-760-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637867
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-SA4D-760-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24279.1 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

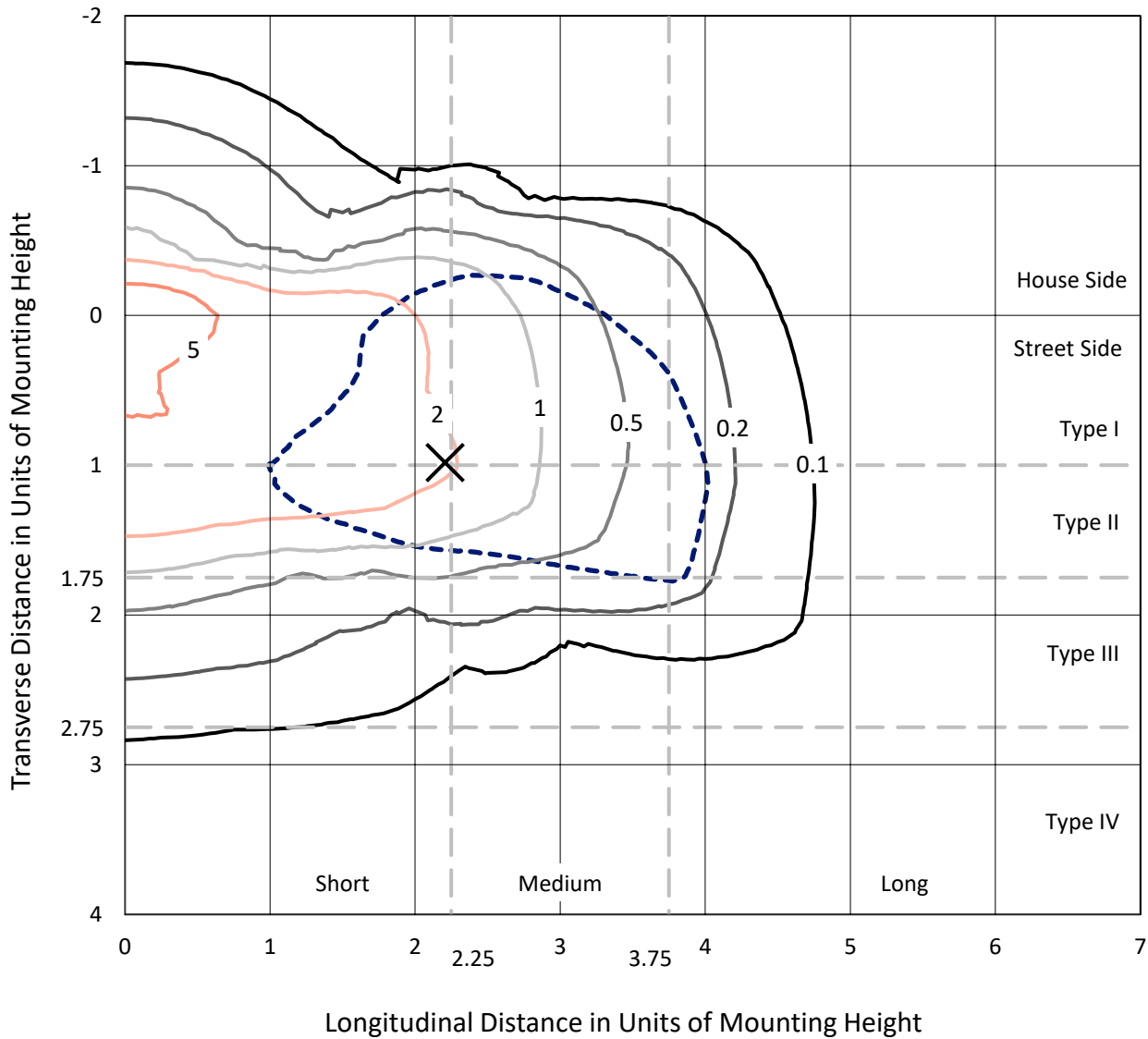
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

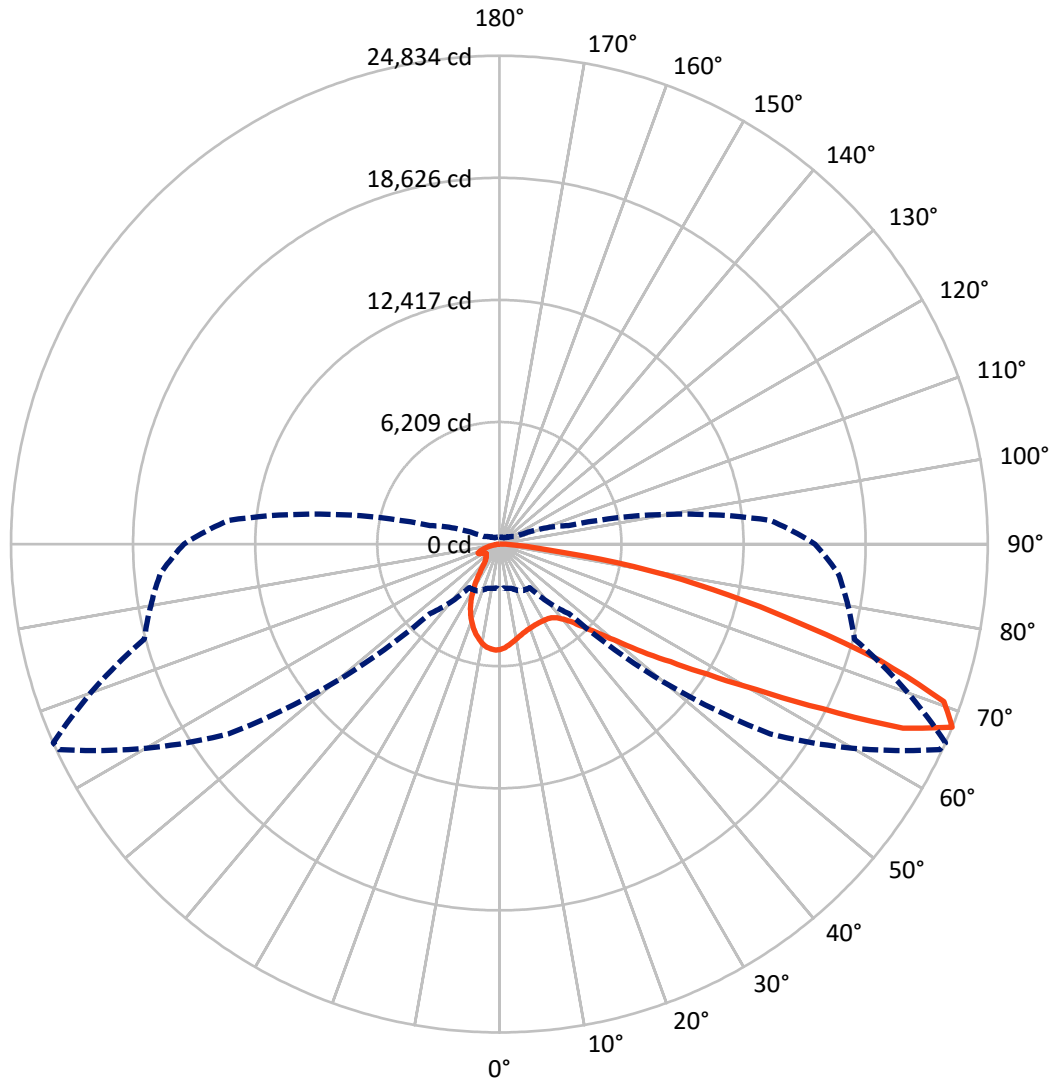
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	4926.8	0.0	4926.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	19352.3	0.0	19352.3
	% Fixture	79.7	0.0	79.7
Total	Lumens	24279.1	0.0	24279.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.8	1.9
10°-20°	1157.2	4.8
20°-30°	1590.6	6.6
30°-40°	2174.5	9.0
40°-50°	3295.0	13.6
50°-60°	5122.2	21.1
60°-70°	6236.1	25.7
70°-80°	3798.8	15.6
80°-90°	433.9	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°	24279.1	100.0
0°-180°	24279.1	100.0

Coefficient of Utilization



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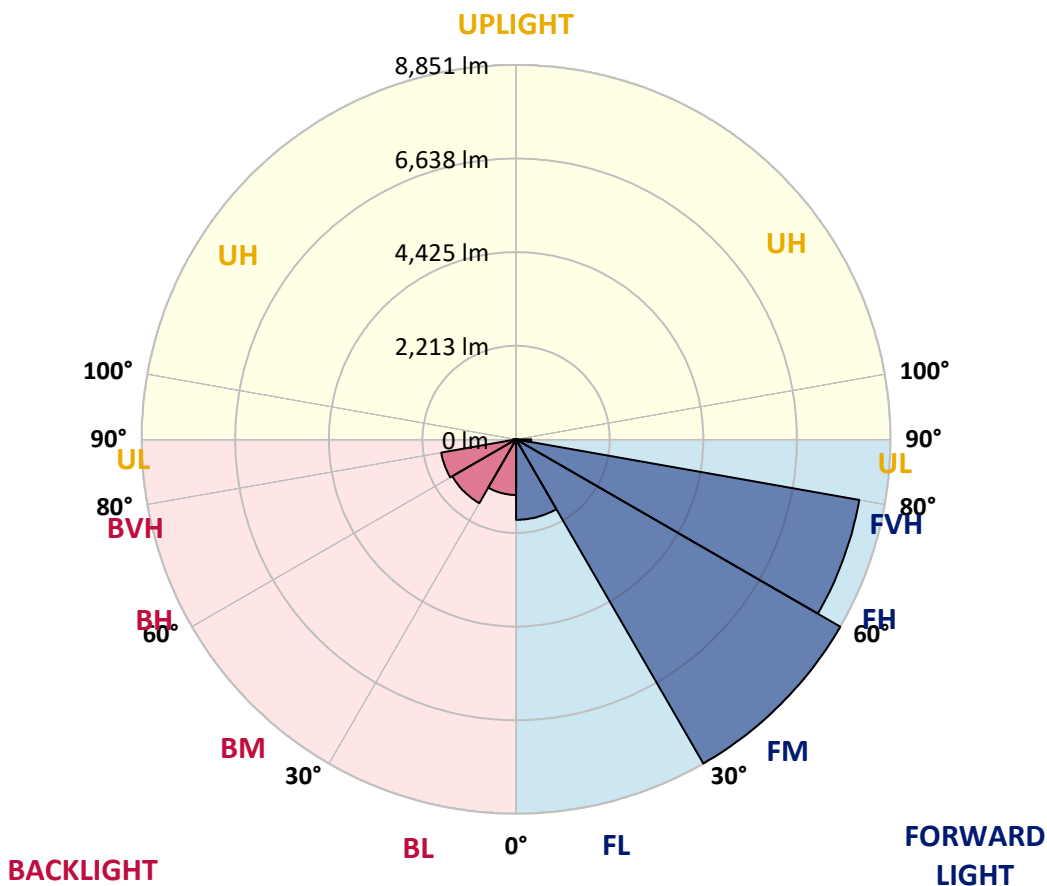
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1902.4	7.8			
FM (30°-60°)	8850.7	36.5			
FH (60°-80°)	8238.5	33.9			G4/12000
FVH (80°-90°)	360.8	1.5			G3/500
BL (0°-30°)	1316.2	5.4	B3/2500		
BM (30°-60°)	1741.1	7.2	B2/2500		
BH (60°-80°)	1796.4	7.4	B3/2500		G3/2500
BVH (80°-90°)	73.2	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°	5365.0	5365.0	5365.0	5365.0	5365.0	5365.0	5365.0	5365.0	5365.0	5365.0	5365.0
2.5°	5024.9	5042.6	5032.0	5099.3	5102.9	5187.9	5235.7	5276.4	5280.0	5333.1	5368.5
5°	4681.3	4691.9	4691.9	4755.7	4798.2	4911.6	5021.4	5138.3	5147.1	5274.7	5372.1
7.5°	4403.2	4413.9	4406.8	4491.8	4546.7	4672.4	4812.4	4991.3	5009.0	5214.4	5384.5
10°	4185.4	4181.8	4199.5	4277.5	4348.3	4498.9	4654.7	4858.4	4885.0	5145.4	5398.6
12.5°	4036.6	4040.1	4050.8	4132.2	4208.4	4357.2	4518.4	4739.8	4768.1	5065.7	5391.6
15°	3965.7	3958.7	3967.5	4041.9	4114.5	4245.6	4412.1	4640.6	4668.9	4994.8	5393.3
17.5°	3949.8	3944.5	3942.7	3995.8	4050.8	4173.0	4332.4	4564.4	4594.5	4948.8	5404.0
20°	3999.4	3992.3	3972.8	3995.8	4018.9	4121.6	4275.7	4509.5	4543.2	4918.6	5425.2
22.5°	4135.8	4123.4	4093.3	4064.9	4034.8	4096.8	4240.3	4468.8	4502.4	4899.2	5446.5
25°	4343.0	4332.4	4300.5	4236.7	4126.9	4116.3	4233.2	4451.0	4484.7	4885.0	5455.3
27.5°	4628.2	4612.2	4580.3	4488.2	4309.4	4188.9	4259.8	4449.3	4481.2	4869.1	5446.5
30°	4966.5	4955.8	4938.1	4826.5	4587.4	4343.0	4320.0	4463.4	4488.2	4860.2	5428.8
32.5°	5310.1	5299.5	5313.6	5260.5	4966.5	4598.1	4451.0	4502.4	4520.1	4858.4	5412.8
35°	5613.0	5625.4	5728.1	5736.9	5448.2	4943.4	4658.3	4592.7	4596.3	4893.9	5419.9
37.5°	5930.0	5977.8	6112.4	6227.6	5986.7	5400.4	4966.5	4762.8	4759.2	4984.2	5464.2
40°	6349.8	6371.0	6542.8	6758.9	6608.4	6027.4	5404.0	5040.9	5016.1	5168.4	5582.9
42.5°	6758.9	6810.3	7084.8	7332.8	7283.2	6734.1	5954.8	5457.1	5412.8	5494.3	5827.3
45°	7279.7	7329.3	7637.5	7956.3	8046.6	7533.0	6659.7	6048.7	6004.4	5984.9	6275.4
47.5°	7800.4	7851.8	8128.1	8588.6	8905.6	8531.9	7577.2	6829.8	6757.2	6681.0	6952.0
50°	8151.1	8211.3	8475.2	9027.9	9771.8	9778.8	8664.8	7853.5	7761.4	7641.0	7904.9
52.5°	8138.7	8177.7	8429.2	9066.8	10395.2	11211.8	10120.7	9157.2	9082.8	8820.6	9050.9
55°	7499.3	7557.7	7811.0	8608.1	10462.5	12570.3	12260.3	10694.6	10561.7	10092.3	10345.6
57.5°	6215.2	6264.8	6519.8	7502.8	9865.6	13266.4	14977.3	12653.5	12471.1	11477.4	11769.7
60°	4691.9	4631.7	4752.2	5613.0	8438.0	13284.1	17375.6	15310.3	15005.7	12958.2	13202.6
62.5°	3521.2	3460.9	3487.5	3730.2	5721.0	12210.7	18742.9	18944.9	18441.8	14630.2	14582.4
65°	2782.6	2748.9	2825.1	2991.6	3335.2	9298.8	18753.6	22875.2	22558.1	16567.9	15997.6
67.5°	2267.1	2245.9	2323.8	2632.0	2704.6	4996.6	16815.9	24710.1	24834.1	18689.8	17310.0
70°	1826.1	1794.2	1916.4	2322.1	2515.1	3023.5	12046.0	23774.9	23975.1	19954.4	16939.8
72.5°	1261.1	1262.9	1324.9	1881.0	2428.3	2610.8	6813.8	19796.8	20230.7	18808.5	14892.3
75°	850.2	857.3	875.0	1241.6	2237.0	2532.8	3631.0	14988.0	15294.4	15545.9	12309.9
77.5°	513.7	517.2	557.9	751.0	1542.7	2364.6	2460.2	10864.6	11105.5	10248.2	7630.4
80°	297.6	310.0	347.2	503.0	1041.5	1776.5	1904.0	6661.5	6934.3	4555.5	2424.8
82.5°	131.1	139.9	189.5	292.2	607.5	1510.8	1486.0	2632.0	2593.0	1270.0	841.3
85°	23.0	28.3	40.7	92.1	223.2	797.0	1153.1	1161.9	1092.8	481.8	348.9
87.5°	0.0	0.0	0.0	0.0	0.0	5.3	173.6	311.7	310.0	136.4	120.4
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°	5365.0	5365.0	5365.0	5365.0	5365.0	5365.0	5365.0	5365.0	5365.0	5365.0	5365.0
2.5°	5391.6	5343.7	5386.2	5391.6	5382.7	5375.6	5322.5	5276.4	5271.1	5221.5	5221.5
5°	5411.0	5366.8	5388.0	5347.3	5283.5	5218.0	5104.6	5026.7	4991.3	4927.5	4927.5
7.5°	5437.6	5391.6	5366.8	5265.8	5117.0	4973.6	4791.1	4638.8	4576.8	4486.5	4482.9
10°	5462.4	5404.0	5318.9	5122.3	4885.0	4656.5	4390.8	4174.7	4027.7	3919.7	3919.7
12.5°	5460.6	5384.5	5216.2	4925.7	4598.1	4266.8	3912.6	3586.7	3391.9	3223.6	3213.0
15°	5457.1	5352.6	5085.1	4697.2	4263.3	3804.6	3322.8	2897.7	2609.0	2444.3	2430.1
17.5°	5453.6	5311.9	4938.1	4436.9	3855.9	3230.7	2594.8	2134.3	1893.4	1792.5	1796.0
20°	5453.6	5265.8	4780.5	4137.5	3386.6	2543.5	1904.0	1569.3	1509.1	1514.4	1519.7
22.5°	5437.6	5209.1	4605.1	3811.6	2864.0	1870.4	1404.6	1291.2	1323.1	1372.7	1379.8
25°	5400.4	5115.3	4401.5	3450.3	2242.4	1362.1	1146.0	1124.7	1183.2	1245.2	1262.9
27.5°	5342.0	5007.2	4173.0	3027.0	1650.8	1094.6	1007.8	1006.0	1052.1	1098.1	1114.1
30°	5280.0	4886.8	3932.1	2555.9	1195.6	952.9	919.3	919.3	942.3	970.6	967.1
32.5°	5207.4	4764.6	3673.5	2065.2	974.2	873.2	862.6	857.3	860.8	871.4	871.4
35°	5145.4	4656.5	3407.8	1546.3	873.2	828.9	818.3	805.9	800.6	793.5	797.0
37.5°	5122.3	4571.5	3133.3	1165.5	823.6	797.0	779.3	761.6	749.2	745.7	743.9
40°	5159.5	4536.1	2858.7	960.0	788.2	763.4	743.9	720.9	710.3	710.3	710.3
42.5°	5304.8	4562.6	2578.9	867.9	763.4	735.1	706.7	685.5	681.9	685.5	687.2
45°	5570.5	4665.4	2288.4	821.8	742.1	706.7	673.1	657.1	657.1	660.7	660.7
47.5°	6045.1	4934.6	2001.5	793.5	720.9	683.7	648.3	632.3	630.6	634.1	634.1
50°	6867.0	5419.9	1742.9	774.0	704.9	666.0	630.6	609.3	604.0	602.2	602.2
52.5°	7903.1	6261.2	1578.1	759.8	685.5	646.5	611.1	582.7	572.1	566.8	566.8
55°	9155.4	7382.4	1578.1	749.2	660.7	623.5	582.7	554.4	538.4	531.4	531.4
57.5°	10574.1	8687.8	1850.9	740.4	641.2	596.9	552.6	524.3	506.6	495.9	495.9
60°	12017.7	10067.6	2525.7	728.0	623.5	563.2	519.0	492.4	469.4	457.0	455.2
62.5°	13514.3	11587.2	3414.9	735.1	611.1	531.4	483.5	453.4	433.9	421.5	419.8
65°	14885.2	13034.3	4192.5	790.0	612.8	503.0	442.8	416.2	400.3	384.4	382.6
67.5°	16048.9	13833.1	3646.9	901.5	650.0	469.4	402.1	375.5	361.3	350.7	348.9
70°	15234.2	12614.5	2068.8	970.6	701.4	433.9	356.0	338.3	324.1	317.0	315.3
72.5°	13027.2	10680.4	1383.3	857.3	639.4	387.9	313.5	299.3	288.7	279.9	278.1
75°	10552.9	8469.9	1057.4	703.2	497.7	315.3	269.2	258.6	248.0	239.1	237.3
77.5°	6243.5	4893.9	779.3	556.2	350.7	246.2	223.2	214.3	203.7	196.6	194.8
80°	1992.6	1700.4	494.2	382.6	232.0	189.5	171.8	164.7	154.1	145.2	143.5
82.5°	759.8	657.1	262.1	194.8	154.1	129.3	115.1	108.0	101.0	92.1	90.3
85°	336.5	315.3	145.2	104.5	83.2	63.8	56.7	53.1	44.3	37.2	35.4
87.5°	118.7	118.7	62.0	30.1	17.7	8.9	5.3	1.8	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)