

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: P638252

Luminaire Tested: GWS-SA4E-740-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638252
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-740-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30072.8 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

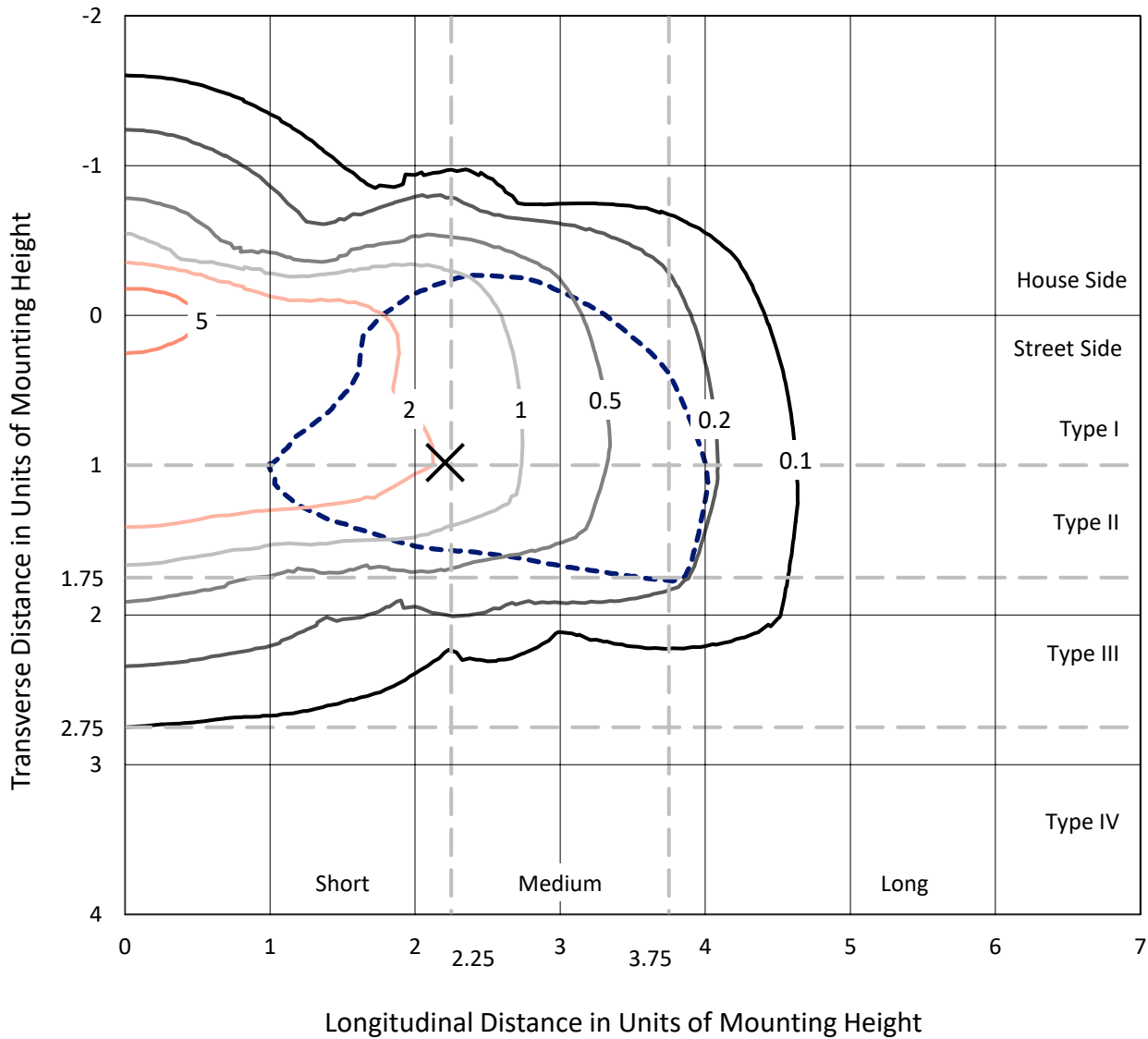
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638252
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Iso-Footcandle Lines of Horizontal Illumination

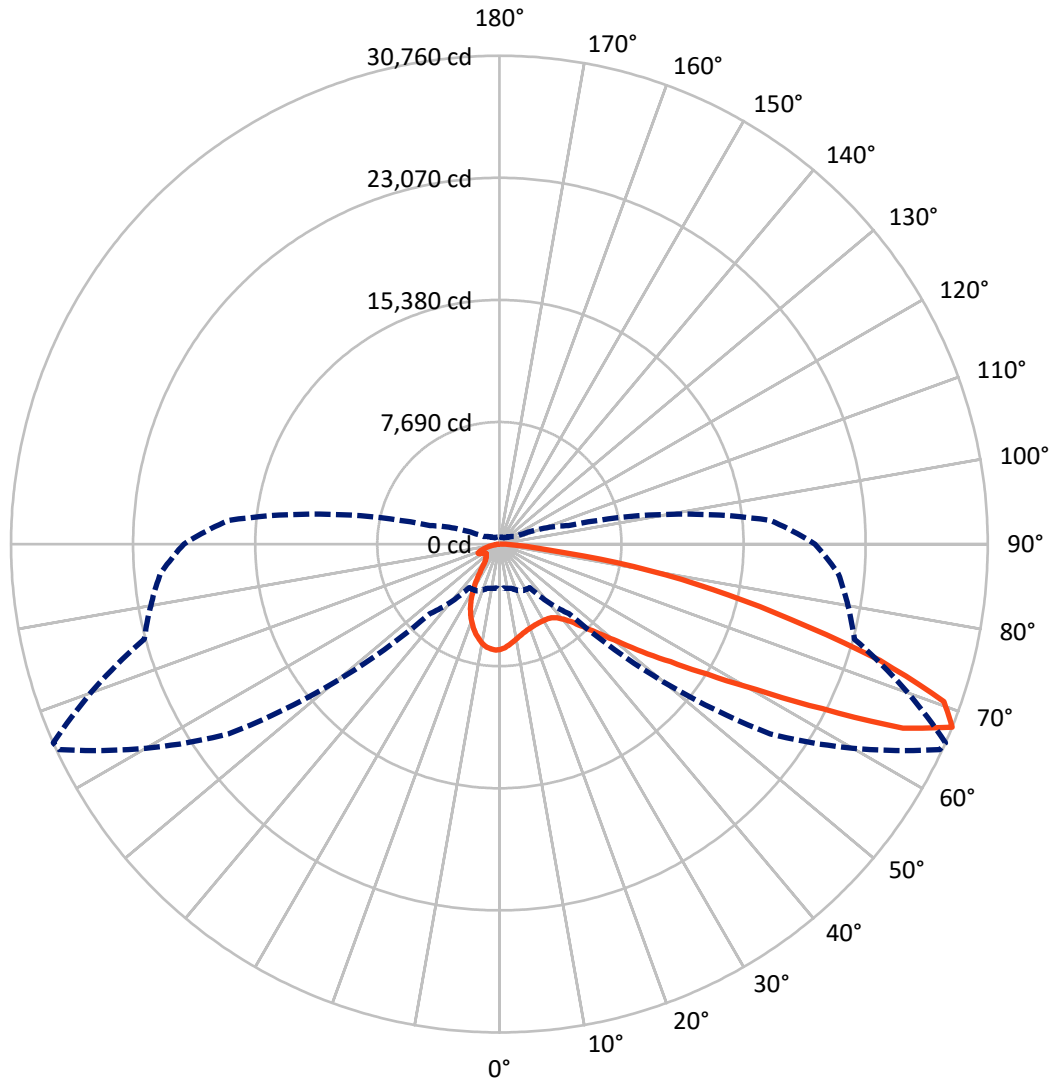
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

REPORT NUMBER: P638252
CATALOG NUMBER: GWS-SA4E-740-U-SL2-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638252

CATALOG NUMBER: GWS-SA4E-740-U-SL2-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6102.5	0.0	6102.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	23970.3	0.0	23970.3
	% Fixture	79.7	0.0	79.7
Total	Lumens	30072.8	0.0	30072.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	583.2	1.9
10°-20°	1433.3	4.8
20°-30°	1970.1	6.6
30°-40°	2693.5	9.0
40°-50°	4081.3	13.6
50°-60°	6344.5	21.1
60°-70°	7724.3	25.7
70°-80°	4705.3	15.6
80°-90°	537.5	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°	30072.8	100.0
0°-180°	30072.8	100.0

Coefficient of Utilization



REPORT NUMBER: P638252

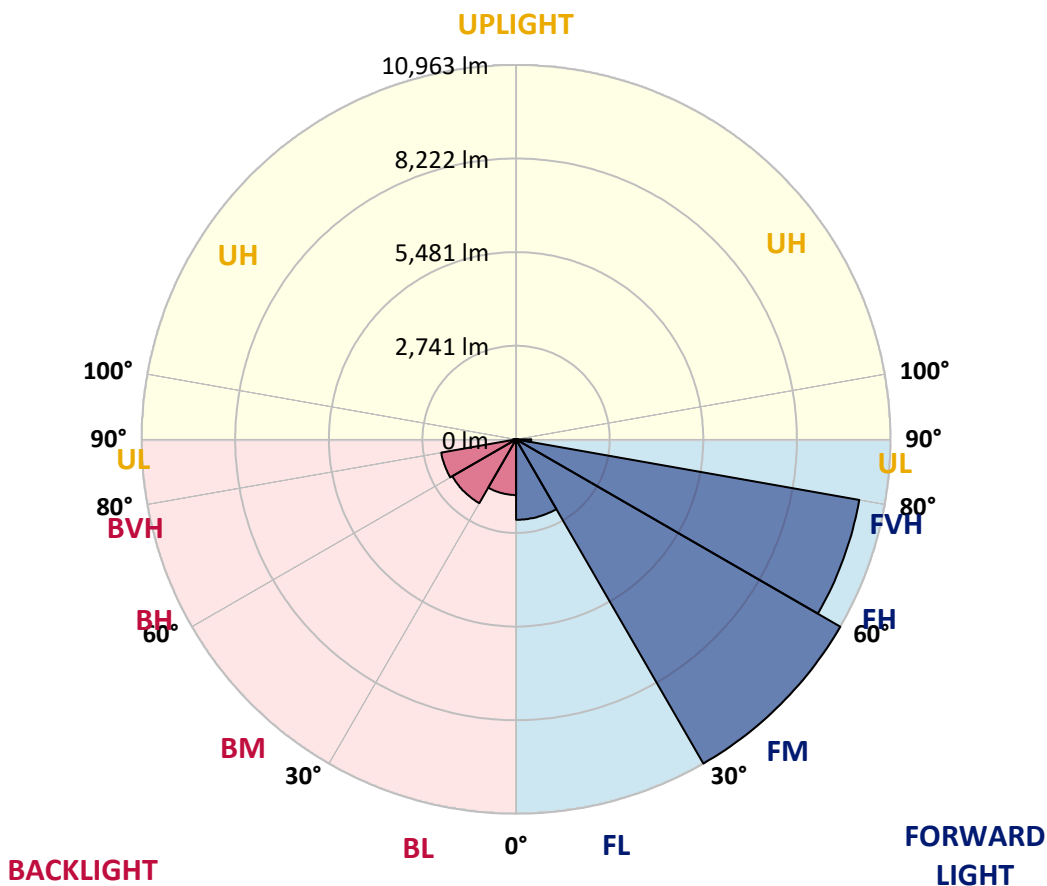
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2356.3	7.8			
FM (30°-60°)	10962.7	36.5			
FH (60°-80°)	10204.5	33.9			G4/12000
FVH (80°-90°)	446.8	1.5			G3/500
BL (0°-30°)	1630.3	5.4	B3/2500		
BM (30°-60°)	2156.5	7.2	B2/2500		
BH (60°-80°)	2225.1	7.4	B3/2500		G3/2500
BVH (80°-90°)	90.6	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





REPORT NUMBER: P638252
 CATALOG NUMBER: GWS-SA4E-740-U-SL2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6645.2	6645.2	6645.2	6645.2	6645.2	6645.2	6645.2	6645.2	6645.2	6645.2	6645.2
2.5°	6224.0	6246.0	6232.8	6316.2	6320.5	6425.8	6485.1	6535.5	6539.9	6605.7	6649.6
5°	5798.4	5811.6	5811.6	5890.5	5943.2	6083.6	6219.6	6364.4	6375.4	6533.3	6654.0
7.5°	5454.0	5467.1	5458.4	5563.7	5631.7	5787.4	5960.7	6182.3	6204.3	6458.8	6669.4
10°	5184.1	5179.7	5201.7	5298.2	5386.0	5572.4	5765.5	6017.8	6050.7	6373.2	6686.9
12.5°	4999.8	5004.2	5017.4	5118.3	5212.6	5396.9	5596.6	5870.8	5905.9	6274.5	6678.1
15°	4912.1	4903.3	4914.3	5006.4	5096.4	5258.7	5464.9	5747.9	5783.0	6186.7	6680.3
17.5°	4892.3	4885.8	4883.6	4949.4	5017.4	5168.8	5366.2	5653.6	5690.9	6129.7	6693.5
20°	4953.8	4945.0	4920.9	4949.4	4977.9	5105.1	5296.0	5585.6	5627.3	6092.4	6719.8
22.5°	5122.7	5107.3	5070.0	5034.9	4997.6	5074.4	5252.1	5535.1	5576.8	6068.2	6746.2
25°	5379.4	5366.2	5326.7	5247.7	5111.7	5098.6	5243.4	5513.2	5554.9	6050.7	6757.1
27.5°	5732.6	5712.8	5673.4	5559.3	5337.7	5188.5	5276.3	5511.0	5550.5	6031.0	6746.2
30°	6151.6	6138.5	6116.5	5978.3	5682.1	5379.4	5350.9	5528.6	5559.3	6020.0	6724.2
32.5°	6577.2	6564.1	6581.6	6515.8	6151.6	5695.3	5513.2	5576.8	5598.8	6017.8	6704.5
35°	6952.4	6967.7	7095.0	7105.9	6748.3	6123.1	5769.9	5688.7	5693.1	6061.7	6713.2
37.5°	7345.1	7404.3	7571.0	7713.7	7415.3	6689.1	6151.6	5899.3	5894.9	6173.6	6768.1
40°	7865.0	7891.4	8104.2	8371.8	8185.3	7465.7	6693.5	6243.8	6213.0	6401.7	6915.1
42.5°	8371.8	8435.4	8775.5	9082.6	9021.2	8341.1	7375.8	6759.3	6704.5	6805.4	7217.8
45°	9016.8	9078.2	9460.0	9854.9	9966.8	9330.5	8249.0	7492.1	7437.2	7413.1	7772.9
47.5°	9661.8	9725.4	10067.7	10638.1	11030.8	10567.9	9385.4	8459.6	8369.6	8275.3	8610.9
50°	10096.2	10170.8	10497.7	11182.2	12103.6	12112.4	10732.4	9727.6	9613.5	9464.4	9791.2
52.5°	10080.8	10129.1	10440.6	11230.4	12875.8	13887.2	12535.8	11342.3	11250.2	10925.5	11210.7
55°	9288.8	9361.2	9675.0	10662.2	12959.2	15569.9	15186.0	13246.6	13082.1	12500.7	12814.4
57.5°	7698.3	7759.7	8075.6	9293.2	12219.9	16432.1	18551.4	15673.0	15447.0	14216.3	14578.3
60°	5811.6	5737.0	5886.2	6952.4	10451.6	16454.0	21521.9	18963.8	18586.5	16050.4	16353.1
62.5°	4361.4	4286.8	4319.7	4620.3	7086.2	15124.5	23215.5	23465.6	22842.6	18121.4	18062.1
65°	3446.6	3404.9	3499.2	3705.4	4131.1	11517.8	23228.7	28333.8	27941.1	20521.5	19815.0
67.5°	2808.2	2781.8	2878.4	3260.1	3350.0	6188.9	20828.6	30606.7	30760.3	23149.7	21440.7
70°	2261.9	2222.4	2373.8	2876.2	3115.3	3744.9	14920.5	29448.3	29696.2	24716.1	20982.2
72.5°	1562.0	1564.2	1641.0	2329.9	3007.8	3233.8	8439.8	24520.9	25058.4	23296.7	18446.1
75°	1053.1	1061.8	1083.8	1537.9	2770.9	3137.2	4497.4	18564.5	18944.1	19255.6	15247.4
77.5°	636.2	640.6	691.1	930.2	1910.9	2928.8	3047.3	13457.2	13755.6	12693.7	9451.2
80°	368.6	383.9	430.0	623.1	1290.0	2200.5	2358.4	8251.1	8589.0	5642.6	3003.4
82.5°	162.3	173.3	234.7	362.0	752.5	1871.4	1840.7	3260.1	3211.8	1573.0	1042.1
85°	28.5	35.1	50.5	114.1	276.4	987.2	1428.2	1439.2	1353.6	596.7	432.2
87.5°	0.0	0.0	0.0	0.0	0.0	6.6	215.0	386.1	383.9	168.9	149.2
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°	6645.2	6645.2	6645.2	6645.2	6645.2	6645.2	6645.2	6645.2	6645.2	6645.2	6645.2
2.5°	6678.1	6618.9	6671.6	6678.1	6667.2	6658.4	6592.6	6535.5	6529.0	6467.5	6467.5
5°	6702.3	6647.4	6673.8	6623.3	6544.3	6463.1	6322.7	6226.2	6182.3	6103.3	6103.3
7.5°	6735.2	6678.1	6647.4	6522.4	6338.1	6160.4	5934.4	5745.7	5669.0	5557.1	5552.7
10°	6765.9	6693.5	6588.2	6344.7	6050.7	5767.7	5438.6	5171.0	4988.9	4855.0	4855.0
12.5°	6763.7	6669.4	6460.9	6101.2	5695.3	5285.0	4846.3	4442.6	4201.3	3992.8	3979.7
15°	6759.3	6629.9	6298.6	5818.1	5280.6	4712.4	4115.7	3589.2	3231.6	3027.5	3010.0
17.5°	6754.9	6579.4	6116.5	5495.6	4776.1	4001.6	3214.0	2643.6	2345.2	2220.2	2224.6
20°	6754.9	6522.4	5921.3	5124.9	4194.7	3150.4	2358.4	1943.8	1869.2	1875.8	1882.3
22.5°	6735.2	6452.2	5704.1	4721.2	3547.5	2316.7	1739.7	1599.3	1638.8	1700.2	1709.0
25°	6689.1	6335.9	5451.8	4273.7	2777.4	1687.1	1419.4	1393.1	1465.5	1542.3	1564.2
27.5°	6616.7	6202.1	5168.8	3749.3	2044.7	1355.8	1248.3	1246.1	1303.2	1360.2	1379.9
30°	6539.9	6052.9	4870.4	3165.8	1480.9	1180.3	1138.6	1138.6	1167.1	1202.2	1197.9
32.5°	6450.0	5901.5	4550.1	2558.1	1206.6	1081.6	1068.4	1061.8	1066.2	1079.4	1079.4
35°	6373.2	5767.7	4221.0	1915.2	1081.6	1026.7	1013.6	998.2	991.6	982.9	987.2
37.5°	6344.7	5662.4	3881.0	1443.6	1020.1	987.2	965.3	943.4	928.0	923.6	921.4
40°	6390.7	5618.5	3540.9	1189.1	976.3	945.6	921.4	892.9	879.7	879.7	879.7
42.5°	6570.6	5651.4	3194.3	1075.0	945.6	910.5	875.4	849.0	844.6	849.0	851.2
45°	6899.7	5778.7	2834.5	1018.0	919.2	875.4	833.7	813.9	813.9	818.3	818.3
47.5°	7487.7	6112.1	2479.1	982.9	892.9	846.8	803.0	783.2	781.0	785.4	785.4
50°	8505.6	6713.2	2158.8	958.7	873.2	824.9	781.0	754.7	748.1	745.9	745.9
52.5°	9789.1	7755.3	1954.7	941.2	849.0	800.8	756.9	721.8	708.6	702.0	702.0
55°	11340.1	9144.1	1954.7	928.0	818.3	772.2	721.8	686.7	666.9	658.2	658.2
57.5°	13097.4	10760.9	2292.6	917.0	794.2	739.3	684.5	649.4	627.4	614.3	614.3
60°	14885.4	12470.0	3128.5	901.7	772.2	697.7	642.8	609.9	581.4	566.0	563.8
62.5°	16739.2	14352.3	4229.8	910.5	756.9	658.2	598.9	561.6	537.5	522.1	519.9
65°	18437.3	16144.7	5192.9	978.5	759.1	623.1	548.5	515.6	495.8	476.1	473.9
67.5°	19878.7	17134.1	4517.2	1116.7	805.2	581.4	498.0	465.1	447.5	434.4	432.2
70°	18869.5	15624.7	2562.4	1202.2	868.8	537.5	441.0	419.0	401.5	392.7	390.5
72.5°	16135.9	13229.0	1713.4	1061.8	792.0	480.5	388.3	370.8	357.6	346.6	344.4
75°	13071.1	10491.1	1309.7	871.0	616.5	390.5	333.5	320.3	307.1	296.2	294.0
77.5°	7733.4	6061.7	965.3	688.9	434.4	304.9	276.4	265.5	252.3	243.5	241.3
80°	2468.1	2106.1	612.1	473.9	287.4	234.7	212.8	204.0	190.9	179.9	177.7
82.5°	941.2	813.9	324.7	241.3	190.9	160.2	142.6	133.8	125.1	114.1	111.9
85°	416.8	390.5	179.9	129.4	103.1	79.0	70.2	65.8	54.8	46.1	43.9
87.5°	147.0	147.0	76.8	37.3	21.9	11.0	6.6	2.2	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)