

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: P638197

Luminaire Tested: GWS-SA4E-735-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638197
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-735-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29660.7 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

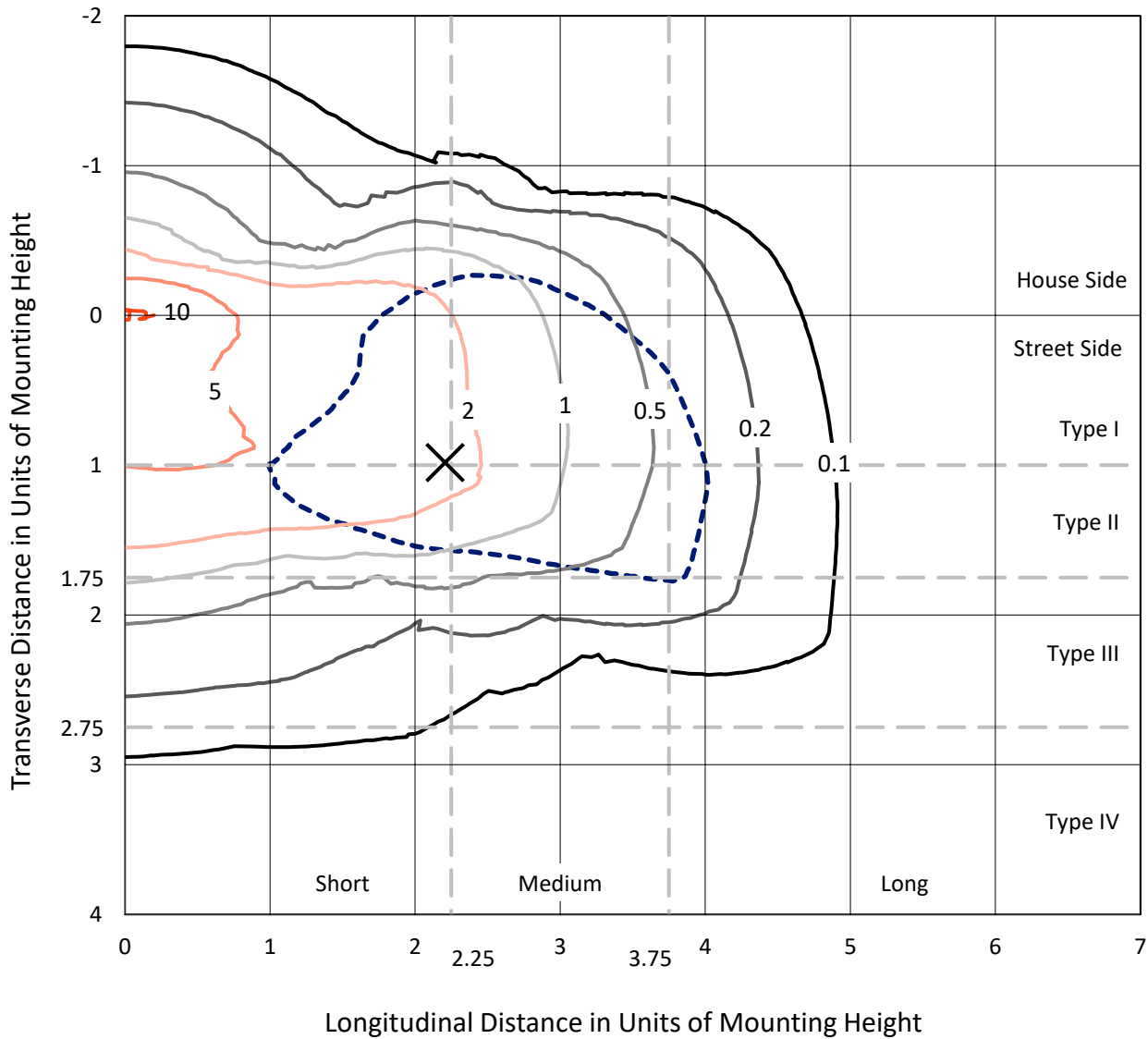
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

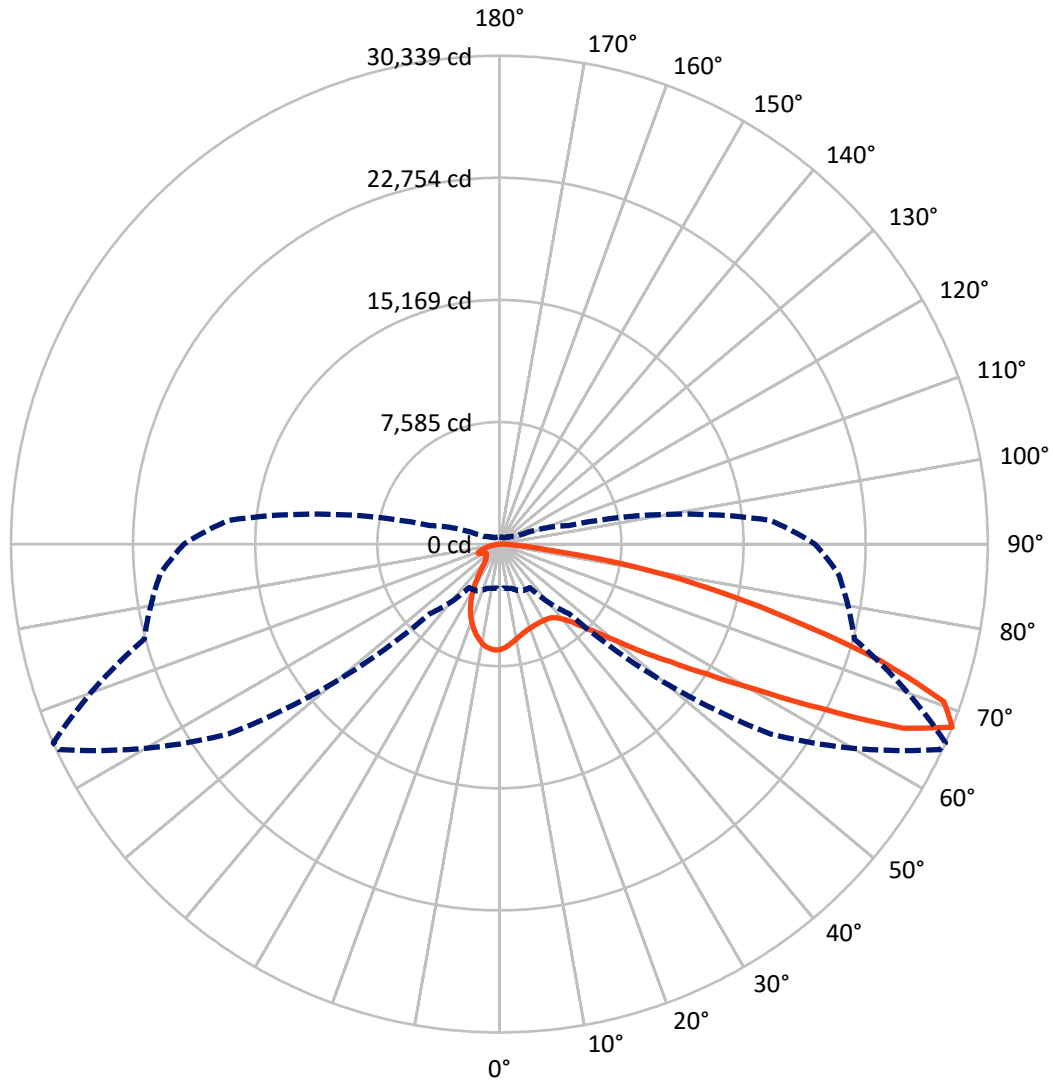
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	6018.8	0.0	6018.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	23641.9	0.0	23641.9
	% Fixture	79.7	0.0	79.7
Total	Lumens	29660.7	0.0	29660.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.2	1.9
10°-20°	1413.7	4.8
20°-30°	1943.1	6.6
30°-40°	2656.5	9.0
40°-50°	4025.4	13.6
50°-60°	6257.5	21.1
60°-70°	7618.4	25.7
70°-80°	4640.8	15.6
80°-90°	530.1	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°	29660.7	100.0
0°-180°	29660.7	100.0

Coefficient of Utilization



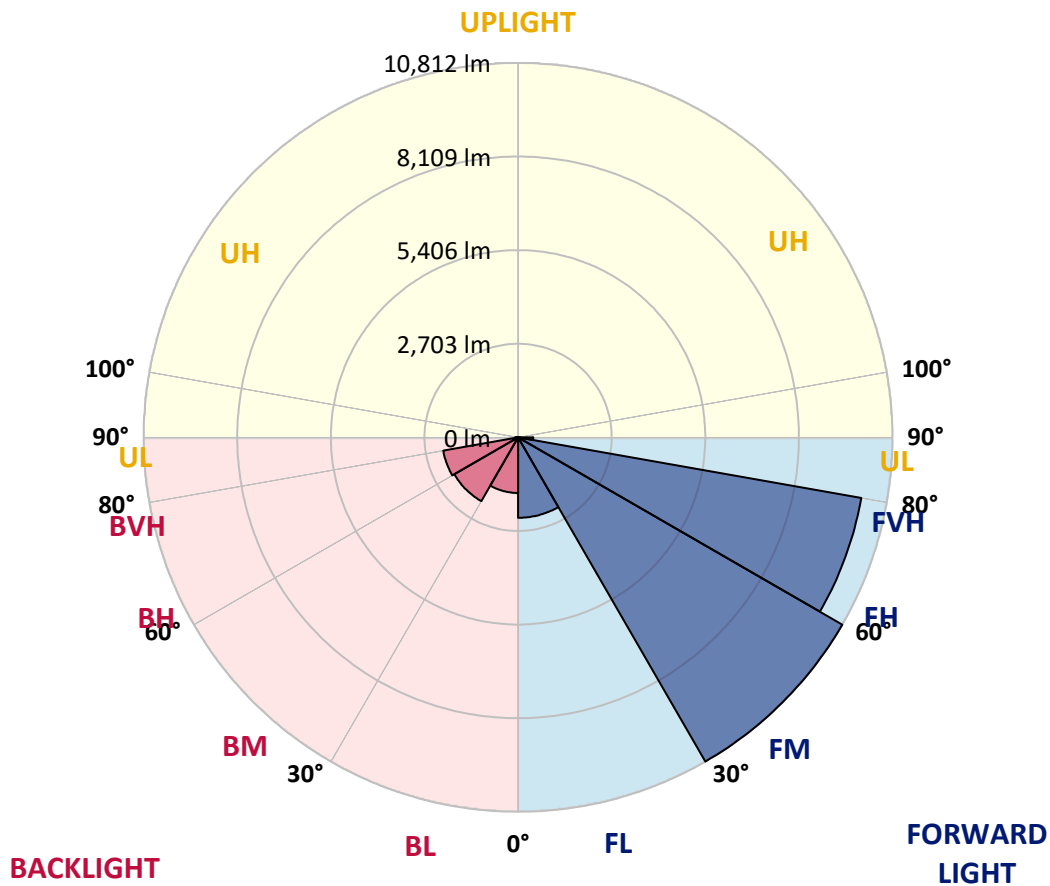
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2324.0	7.8			
FM (30°-60°)	10812.5	36.5			
FH (60°-80°)	10064.6	33.9			G4/12000
FVH (80°-90°)	440.7	1.5			G3/500
BL (0°-30°)	1607.9	5.4	B3/2500		
BM (30°-60°)	2127.0	7.2	B2/2500		
BH (60°-80°)	2194.6	7.4	B3/2500		G3/2500
BVH (80°-90°)	89.4	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6554.2	6554.2	6554.2	6554.2	6554.2	6554.2	6554.2	6554.2	6554.2	6554.2	6554.2
2.5°	6138.7	6160.4	6147.4	6229.6	6233.9	6337.8	6396.2	6446.0	6450.3	6515.2	6558.5
5°	5718.9	5731.9	5731.9	5809.8	5861.8	6000.2	6134.4	6277.2	6288.0	6443.8	6562.8
7.5°	5379.2	5392.2	5383.6	5487.4	5554.5	5708.1	5879.1	6097.6	6119.2	6370.2	6578.0
10°	5113.1	5108.7	5130.4	5225.6	5312.1	5496.1	5686.5	5935.3	5967.8	6285.9	6595.3
12.5°	4931.3	4935.6	4948.6	5048.2	5141.2	5323.0	5519.9	5790.3	5825.0	6188.5	6586.6
15°	4844.8	4836.1	4846.9	4937.8	5026.5	5186.6	5390.0	5669.2	5703.8	6101.9	6588.8
17.5°	4825.3	4818.8	4816.6	4881.5	4948.6	5097.9	5292.7	5576.1	5612.9	6045.7	6601.8
20°	4885.9	4877.2	4853.4	4881.5	4909.7	5035.2	5223.4	5509.1	5550.2	6008.9	6627.7
22.5°	5052.5	5037.3	5000.6	4965.9	4929.2	5004.9	5180.2	5459.3	5500.4	5985.1	6653.7
25°	5305.7	5292.7	5253.7	5175.8	5041.7	5028.7	5171.5	5437.6	5478.8	5967.8	6664.5
27.5°	5654.0	5634.6	5595.6	5483.1	5264.5	5117.4	5204.0	5435.5	5474.4	5948.3	6653.7
30°	6067.3	6054.3	6032.7	5896.4	5604.3	5305.7	5277.5	5452.8	5483.1	5937.5	6632.1
32.5°	6487.1	6474.1	6491.4	6426.5	6067.3	5617.2	5437.6	5500.4	5522.0	5935.3	6612.6
35°	6857.1	6872.3	6997.8	7008.6	6655.9	6039.2	5690.8	5610.8	5615.1	5978.6	6621.3
37.5°	7244.4	7302.8	7467.3	7607.9	7313.7	6597.4	6067.3	5818.5	5814.2	6089.0	6675.3
40°	7757.2	7783.2	7993.1	8257.1	8073.2	7363.4	6601.8	6158.2	6127.9	6314.0	6820.3
42.5°	8257.1	8319.8	8655.2	8958.2	8897.6	8226.8	7274.7	6666.7	6612.6	6712.1	7118.9
45°	8893.2	8953.8	9330.3	9719.8	9830.2	9202.7	8135.9	7389.4	7335.3	7311.5	7666.4
47.5°	9529.4	9592.2	9929.7	10492.3	10879.6	10423.1	9256.8	8343.6	8254.9	8161.9	8492.9
50°	9957.8	10031.4	10353.8	11028.9	11937.7	11946.4	10585.3	9594.3	9481.8	9334.7	9657.1
52.5°	9942.7	9990.3	10297.6	11076.5	12699.4	13696.9	12364.0	11186.9	11096.0	10775.8	11057.1
55°	9161.6	9233.0	9542.4	10516.1	12781.6	15356.5	14977.9	13065.1	12902.8	12329.4	12638.8
57.5°	7592.8	7653.4	7965.0	9165.9	12052.4	16206.9	18297.2	15458.2	15235.4	14021.5	14378.5
60°	5731.9	5658.4	5805.5	6857.1	10308.4	16228.6	21227.0	18704.0	18331.8	15830.4	16129.0
62.5°	4301.6	4228.1	4260.5	4557.0	6989.1	14917.3	22897.4	23144.1	22529.6	17873.0	17814.6
65°	3399.3	3358.2	3451.3	3654.7	4074.4	11360.0	22910.4	27945.6	27558.3	20240.3	19543.5
67.5°	2769.7	2743.7	2838.9	3215.4	3304.1	6104.1	20543.2	30187.3	30338.7	22832.5	21146.9
70°	2230.9	2191.9	2341.2	2836.8	3072.6	3693.6	14716.1	29044.8	29289.3	24377.5	20694.7
72.5°	1540.6	1542.8	1618.5	2298.0	2966.6	3189.5	8324.2	24184.9	24715.0	22977.5	18193.3
75°	1038.6	1047.3	1068.9	1516.8	2732.9	3094.2	4435.8	18310.1	18684.5	18991.7	15038.5
77.5°	627.5	631.8	681.6	917.5	1884.7	2888.7	3005.5	13272.8	13567.1	12519.8	9321.7
80°	363.5	378.7	424.1	614.5	1272.3	2170.3	2326.1	8138.1	8471.3	5565.3	2962.3
82.5°	160.1	170.9	231.5	357.0	742.2	1845.7	1815.4	3215.4	3167.8	1551.4	1027.8
85°	28.1	34.6	49.8	112.5	272.6	973.7	1408.6	1419.5	1335.1	588.6	426.3
87.5°	0.0	0.0	0.0	0.0	0.0	6.5	212.1	380.8	378.7	166.6	147.1
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°	6554.2	6554.2	6554.2	6554.2	6554.2	6554.2	6554.2	6554.2	6554.2	6554.2	6554.2
2.5°	6586.6	6528.2	6580.1	6586.6	6575.8	6567.2	6502.2	6446.0	6439.5	6378.9	6378.9
5°	6610.4	6556.3	6582.3	6532.5	6454.6	6374.6	6236.1	6140.9	6097.6	6019.7	6019.7
7.5°	6642.9	6586.6	6556.3	6433.0	6251.2	6076.0	5853.1	5667.0	5591.3	5480.9	5476.6
10°	6673.2	6601.8	6497.9	6257.7	5967.8	5688.6	5364.1	5100.1	4920.5	4788.5	4788.5
12.5°	6671.0	6578.0	6372.4	6017.5	5617.2	5212.6	4779.9	4381.7	4143.7	3938.1	3925.1
15°	6666.7	6539.0	6212.3	5738.4	5208.3	4647.9	4059.3	3540.0	3187.3	2986.1	2968.7
17.5°	6662.4	6489.3	6032.7	5420.3	4710.6	3946.8	3170.0	2607.4	2313.1	2189.8	2194.1
20°	6662.4	6433.0	5840.1	5054.7	4137.2	3107.2	2326.1	1917.1	1843.6	1850.1	1856.5
22.5°	6642.9	6363.8	5625.9	4656.5	3498.9	2285.0	1715.9	1577.4	1616.4	1677.0	1685.6
25°	6597.4	6249.1	5377.1	4215.1	2739.4	1664.0	1400.0	1374.0	1445.4	1521.2	1542.8
27.5°	6526.0	6117.1	5097.9	3697.9	2016.7	1337.2	1231.2	1229.0	1285.3	1341.6	1361.0
30°	6450.3	5969.9	4803.7	3122.4	1460.6	1164.1	1123.0	1123.0	1151.1	1185.8	1181.4
32.5°	6361.6	5820.6	4487.7	2523.0	1190.1	1066.8	1053.8	1047.3	1051.6	1064.6	1064.6
35°	6285.9	5688.6	4163.2	1889.0	1066.8	1012.7	999.7	984.5	978.0	969.4	973.7
37.5°	6257.7	5584.8	3827.8	1423.8	1006.2	973.7	952.1	930.4	915.3	911.0	908.8
40°	6303.2	5541.5	3492.4	1172.8	962.9	932.6	908.8	880.7	867.7	867.7	867.7
42.5°	6480.6	5574.0	3150.5	1060.3	932.6	898.0	863.4	837.4	833.1	837.4	839.6
45°	6805.2	5699.5	2795.6	1004.0	906.6	863.4	822.2	802.8	802.8	807.1	807.1
47.5°	7385.1	6028.4	2445.1	969.4	880.7	835.2	792.0	772.5	770.3	774.6	774.6
50°	8389.1	6621.3	2129.2	945.6	861.2	813.6	770.3	744.3	737.9	735.7	735.7
52.5°	9654.9	7649.1	1928.0	928.3	837.4	789.8	746.5	711.9	698.9	692.4	692.4
55°	11184.7	9018.7	1928.0	915.3	807.1	761.7	711.9	677.3	657.8	649.1	649.1
57.5°	12917.9	10613.5	2261.2	904.5	783.3	729.2	675.1	640.5	618.8	605.9	605.9
60°	14681.4	12299.1	3085.6	889.3	761.7	688.1	634.0	601.5	573.4	558.3	556.1
62.5°	16509.9	14155.6	4171.8	898.0	746.5	649.1	590.7	553.9	530.1	515.0	512.8
65°	18184.6	15923.5	5121.7	965.1	748.7	614.5	541.0	508.5	489.0	469.5	467.4
67.5°	19606.3	16899.3	4455.3	1101.4	794.1	573.4	491.2	458.7	441.4	428.4	426.3
70°	18610.9	15410.6	2527.3	1185.8	856.9	530.1	434.9	413.3	396.0	387.3	385.2
72.5°	15914.8	13047.8	1689.9	1047.3	781.1	473.9	383.0	365.7	352.7	341.9	339.7
75°	12892.0	10347.3	1291.8	859.0	608.0	385.2	328.9	315.9	302.9	292.1	290.0
77.5°	7627.4	5978.6	952.1	679.4	428.4	300.8	272.6	261.8	248.8	240.2	238.0
80°	2434.3	2077.3	603.7	467.4	283.5	231.5	209.9	201.2	188.3	177.4	175.3
82.5°	928.3	802.8	320.2	238.0	188.3	158.0	140.6	132.0	123.3	112.5	110.4
85°	411.1	385.2	177.4	127.7	101.7	77.9	69.2	64.9	54.1	45.4	43.3
87.5°	145.0	145.0	75.7	36.8	21.6	10.8	6.5	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)