

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: P640342

Luminaire Tested: GWS-SA5D-760-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640342
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-SA5D-760-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29783.5 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

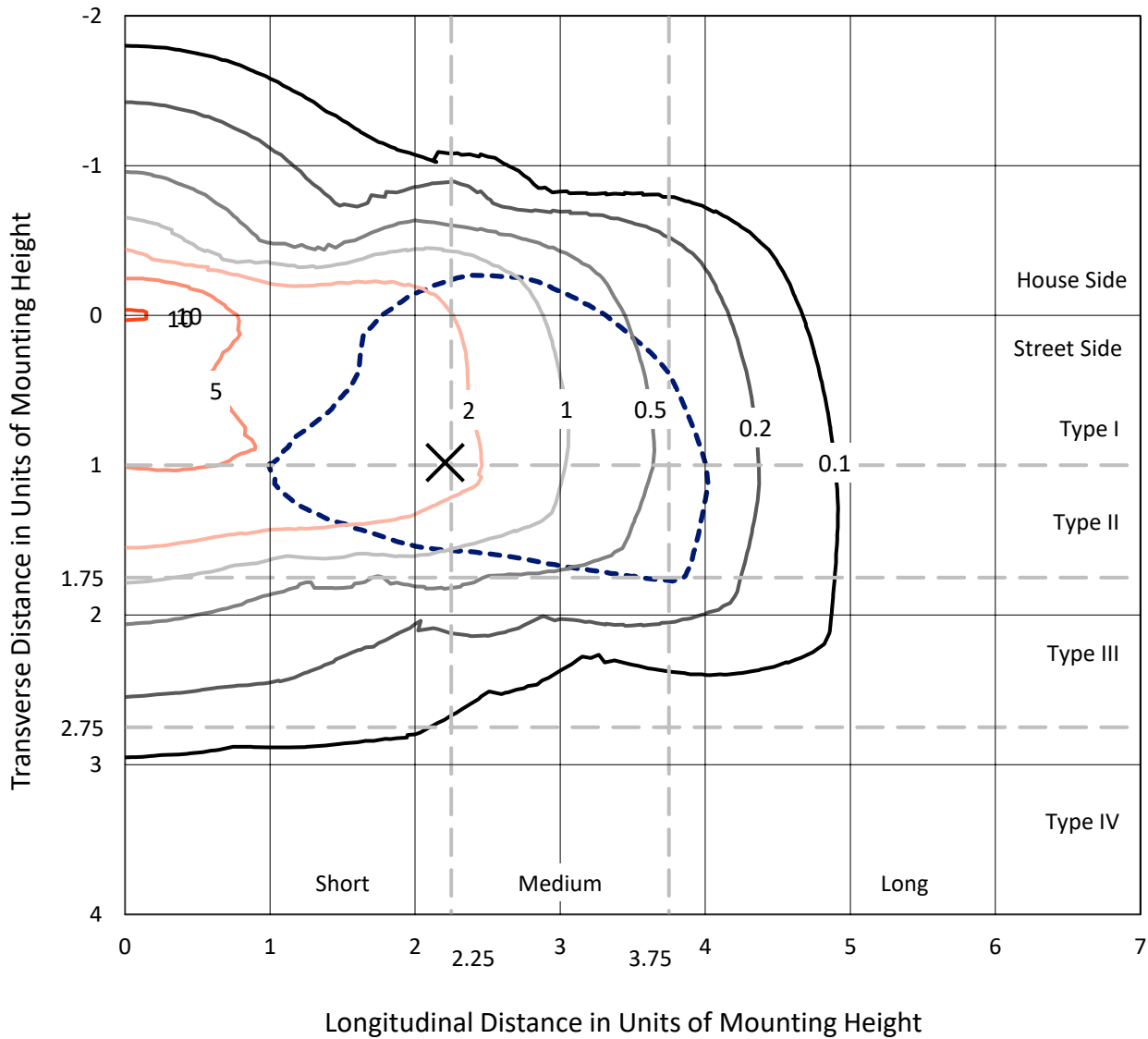
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

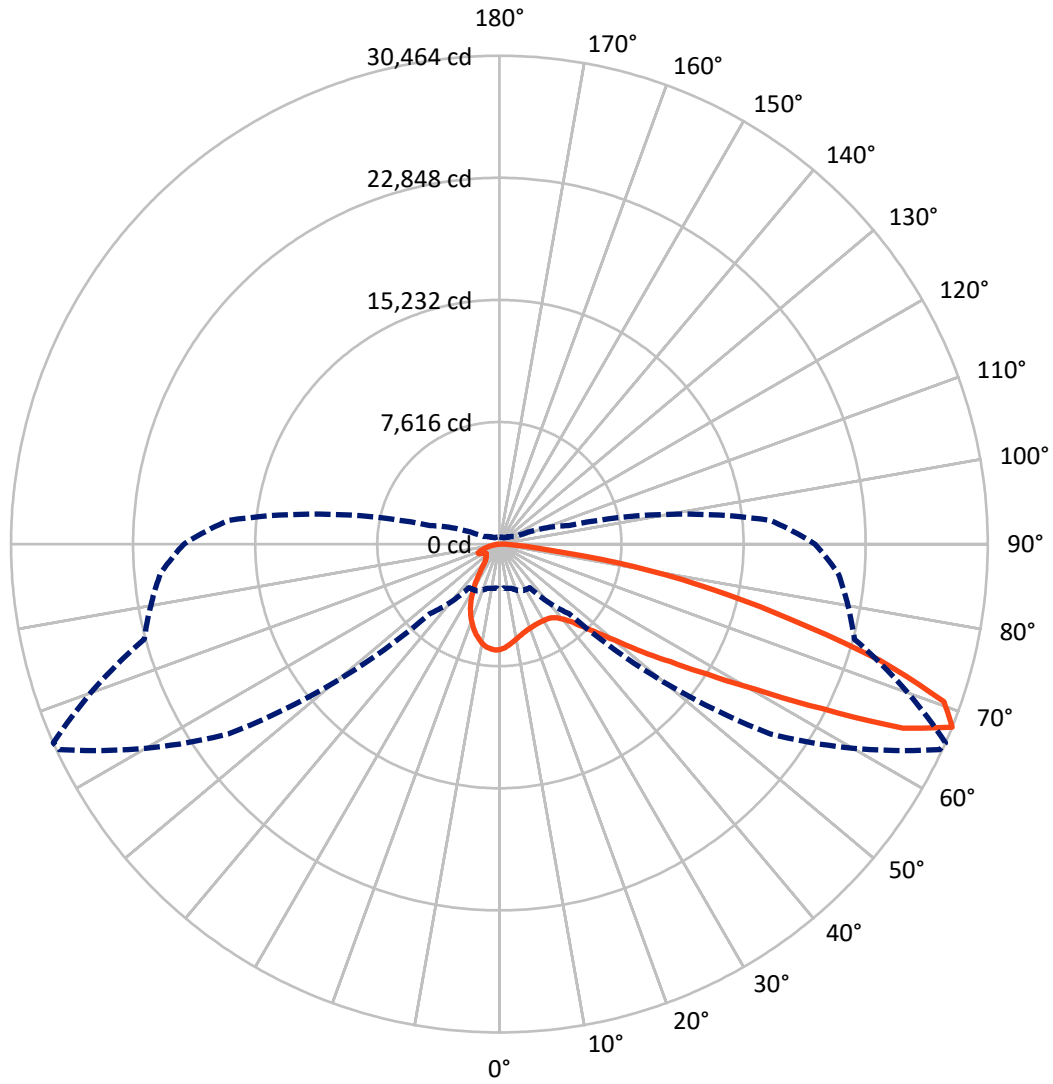
✕ Max cd
 - - - 1/2 Max cd



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	6043.8	0.0	6043.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	23739.7	0.0	23739.7
	% Fixture	79.7	0.0	79.7
Total	Lumens	29783.5	0.0	29783.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.6	1.9
10°-20°	1419.5	4.8
20°-30°	1951.1	6.6
30°-40°	2667.5	9.0
40°-50°	4042.0	13.6
50°-60°	6283.4	21.1
60°-70°	7650.0	25.7
70°-80°	4660.0	15.6
80°-90°	532.3	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°	29783.5	100.0
0°-180°	29783.5	100.0

Coefficient of Utilization



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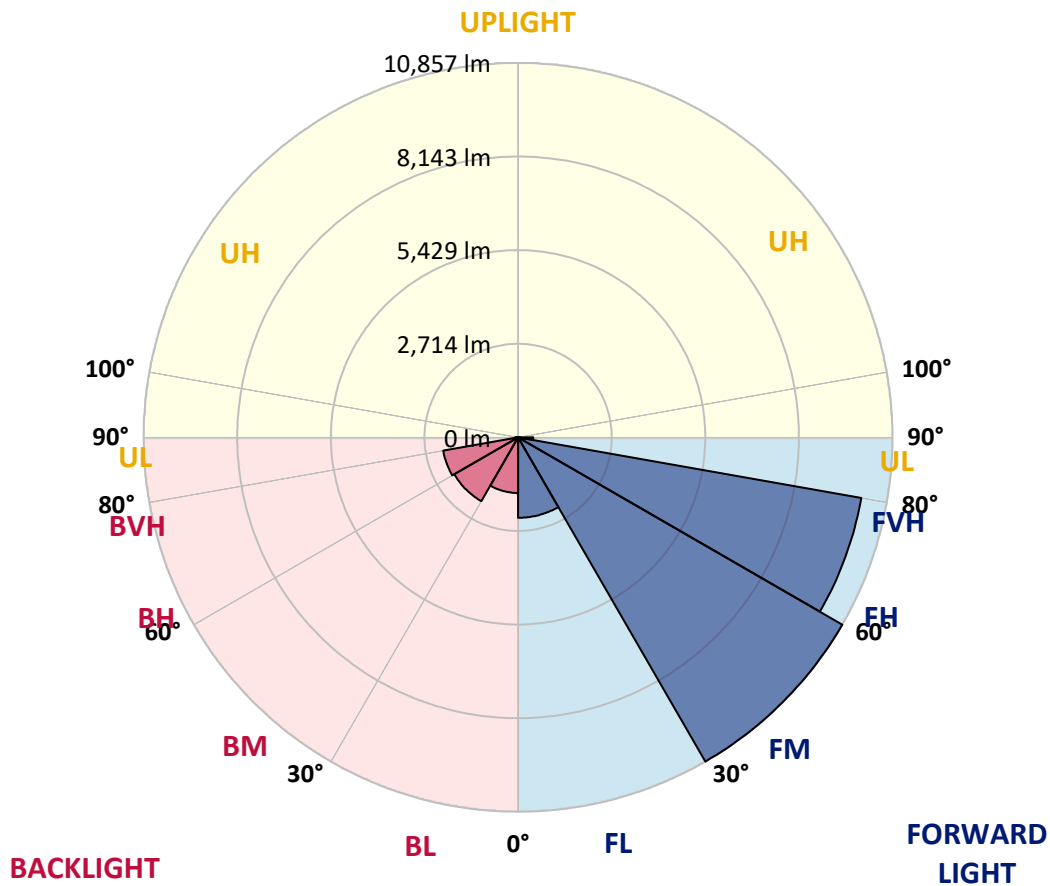
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2333.7	7.8			
FM (30°-60°)	10857.2	36.5			
FH (60°-80°)	10106.3	33.9			G4/12000
FVH (80°-90°)	442.5	1.5			G3/500
BL (0°-30°)	1614.6	5.4	B3/2500		
BM (30°-60°)	2135.8	7.2	B2/2500		
BH (60°-80°)	2203.7	7.4	B3/2500		G3/2500
BVH (80°-90°)	89.7	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°	6581.3	6581.3	6581.3	6581.3	6581.3	6581.3	6581.3	6581.3	6581.3	6581.3	6581.3
2.5°	6164.1	6185.9	6172.8	6255.4	6259.7	6364.0	6422.7	6472.7	6477.0	6542.2	6585.7
5°	5742.6	5755.7	5755.7	5833.9	5886.0	6025.1	6159.8	6303.2	6314.1	6470.5	6590.0
7.5°	5401.5	5414.5	5405.8	5510.1	5577.5	5731.8	5903.4	6122.9	6144.6	6396.6	6605.2
10°	5134.2	5129.9	5151.6	5247.2	5334.1	5518.8	5710.0	5959.9	5992.5	6311.9	6622.6
12.5°	4951.7	4956.1	4969.1	5069.1	5162.5	5345.0	5542.7	5814.3	5849.1	6214.1	6613.9
15°	4864.8	4856.1	4867.0	4958.3	5047.3	5208.1	5412.4	5692.6	5727.4	6127.2	6616.1
17.5°	4845.3	4838.7	4836.6	4901.8	4969.1	5119.0	5314.6	5599.2	5636.2	6070.7	6629.1
20°	4906.1	4897.4	4873.5	4901.8	4930.0	5056.0	5245.1	5531.9	5573.1	6033.8	6655.2
22.5°	5073.4	5058.2	5021.3	4986.5	4949.6	5025.6	5201.6	5481.9	5523.2	6009.9	6681.3
25°	5327.6	5314.6	5275.5	5197.3	5062.5	5049.5	5192.9	5460.2	5501.4	5992.5	6692.1
27.5°	5677.4	5657.9	5618.8	5505.8	5286.3	5138.6	5225.5	5458.0	5497.1	5972.9	6681.3
30°	6092.4	6079.4	6057.7	5920.8	5627.5	5327.6	5299.4	5475.4	5505.8	5962.1	6659.5
32.5°	6514.0	6500.9	6518.3	6453.1	6092.4	5640.5	5460.2	5523.2	5544.9	5959.9	6640.0
35°	6885.5	6900.7	7026.7	7037.6	6683.4	6064.2	5714.4	5634.0	5638.3	6003.4	6648.7
37.5°	7274.4	7333.1	7498.2	7639.4	7343.9	6624.8	6092.4	5842.6	5838.2	6114.2	6703.0
40°	7789.4	7815.4	8026.2	8291.3	8106.6	7393.9	6629.1	6183.7	6153.3	6340.1	6848.6
42.5°	8291.3	8354.3	8691.1	8995.3	8934.4	8260.9	7304.8	6694.3	6640.0	6739.9	7148.4
45°	8930.1	8990.9	9369.0	9760.1	9870.9	9240.8	8169.6	7420.0	7365.7	7341.8	7698.1
47.5°	9568.9	9631.9	9970.8	10535.7	10924.7	10466.2	9295.1	8378.2	8289.1	8195.7	8528.1
50°	9999.1	10072.9	10396.7	11074.6	11987.1	11995.8	10629.2	9634.0	9521.1	9373.3	9697.1
52.5°	9983.9	10031.7	10340.2	11122.4	12752.0	13753.6	12415.2	11233.2	11141.9	10820.4	11102.8
55°	9199.5	9271.2	9581.9	10559.6	12834.5	15420.1	15039.9	13119.2	12956.2	12380.4	12691.1
57.5°	7624.2	7685.1	7998.0	9203.8	12102.3	16274.0	18372.9	15522.2	15298.4	14079.5	14438.0
60°	5755.7	5681.8	5829.5	6885.5	10351.1	16295.7	21314.8	18781.4	18407.7	15896.0	16195.8
62.5°	4319.5	4245.6	4278.2	4575.8	7018.0	14979.0	22992.2	23239.9	22622.8	17947.0	17888.4
65°	3413.4	3372.1	3465.6	3669.8	4091.3	11407.0	23005.2	28061.3	27672.3	20324.1	19624.4
67.5°	2781.1	2755.1	2850.7	3228.7	3317.8	6129.4	20628.2	30312.3	30464.4	22927.0	21234.4
70°	2240.1	2201.0	2350.9	2848.5	3085.3	3708.9	14777.0	29165.0	29410.6	24478.4	20780.3
72.5°	1547.0	1549.2	1625.2	2307.5	2978.9	3202.7	8358.6	24285.0	24817.3	23072.6	18268.6
75°	1042.9	1051.6	1073.3	1523.1	2744.2	3107.1	4454.2	18385.9	18761.8	19070.4	15100.7
77.5°	630.1	634.4	684.4	921.3	1892.5	2900.6	3018.0	13327.7	13623.2	12571.6	9360.3
80°	365.0	380.2	425.9	617.1	1277.6	2179.3	2335.7	8171.8	8506.4	5588.4	2974.5
82.5°	160.8	171.6	232.5	358.5	745.3	1853.4	1823.0	3228.7	3180.9	1557.9	1032.1
85°	28.2	34.8	50.0	113.0	273.8	977.7	1414.5	1425.3	1340.6	591.0	428.0
87.5°	0.0	0.0	0.0	0.0	0.0	6.5	212.9	382.4	380.2	167.3	147.7
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°	6581.3	6581.3	6581.3	6581.3	6581.3	6581.3	6581.3	6581.3	6581.3	6581.3	6581.3
2.5°	6613.9	6555.2	6607.4	6613.9	6603.0	6594.3	6529.2	6472.7	6466.2	6405.3	6405.3
5°	6637.8	6583.5	6609.6	6559.6	6481.4	6401.0	6261.9	6166.3	6122.9	6044.6	6044.6
7.5°	6670.4	6613.9	6583.5	6459.6	6277.1	6101.1	5877.3	5690.5	5614.4	5503.6	5499.3
10°	6700.8	6629.1	6524.8	6283.6	5992.5	5712.2	5386.3	5121.2	4940.9	4808.3	4808.3
12.5°	6698.6	6605.2	6398.8	6042.5	5640.5	5234.2	4799.6	4399.9	4160.8	3954.4	3941.4
15°	6694.3	6566.1	6238.0	5762.2	5229.8	4667.1	4076.1	3554.6	3200.5	2998.4	2981.0
17.5°	6689.9	6516.1	6057.7	5442.8	4730.1	3963.1	3183.1	2618.2	2322.7	2198.8	2203.2
20°	6689.9	6459.6	5864.3	5075.6	4154.3	3120.1	2335.7	1925.1	1851.2	1857.7	1864.2
22.5°	6670.4	6390.1	5649.2	4675.8	3513.4	2294.4	1723.0	1583.9	1623.1	1683.9	1692.6
25°	6624.8	6274.9	5399.3	4232.5	2750.7	1670.9	1405.8	1379.7	1451.4	1527.5	1549.2
27.5°	6553.1	6142.4	5119.0	3713.3	2025.0	1342.8	1236.3	1234.1	1290.6	1347.1	1366.7
30°	6477.0	5994.7	4823.5	3135.3	1466.6	1168.9	1127.7	1127.7	1155.9	1190.7	1186.3
32.5°	6387.9	5844.7	4506.3	2533.4	1195.0	1071.2	1058.1	1051.6	1056.0	1069.0	1069.0
35°	6311.9	5712.2	4180.4	1896.8	1071.2	1016.9	1003.8	988.6	982.1	973.4	977.7
37.5°	6283.6	5607.9	3843.6	1429.7	1010.3	977.7	956.0	934.3	919.1	914.7	912.6
40°	6329.3	5564.5	3506.8	1177.6	966.9	936.5	912.6	884.3	871.3	871.3	871.3
42.5°	6507.4	5597.0	3163.5	1064.7	936.5	901.7	866.9	840.9	836.5	840.9	843.0
45°	6833.3	5723.1	2807.2	1008.2	910.4	866.9	825.7	806.1	806.1	810.4	810.4
47.5°	7415.7	6053.3	2455.2	973.4	884.3	838.7	795.2	775.7	773.5	777.9	777.9
50°	8423.8	6648.7	2138.0	949.5	864.8	817.0	773.5	747.4	740.9	738.7	738.7
52.5°	9694.9	7680.7	1935.9	932.1	840.9	793.1	749.6	714.8	701.8	695.3	695.3
55°	11231.0	9056.1	1935.9	919.1	810.4	764.8	714.8	680.1	660.5	651.8	651.8
57.5°	12971.4	10657.4	2270.5	908.2	786.5	732.2	677.9	643.1	621.4	608.4	608.4
60°	14742.2	12350.0	3098.4	893.0	764.8	690.9	636.6	604.0	575.8	560.6	558.4
62.5°	16578.2	14214.2	4189.1	901.7	749.6	651.8	593.2	556.2	532.3	517.1	514.9
65°	18259.9	15989.4	5142.9	969.1	751.8	617.1	543.2	510.6	491.0	471.5	469.3
67.5°	19687.4	16969.3	4473.7	1105.9	797.4	575.8	493.2	460.6	443.2	430.2	428.0
70°	18688.0	15474.4	2537.8	1190.7	860.4	532.3	436.7	415.0	397.6	388.9	386.8
72.5°	15980.7	13101.8	1696.9	1051.6	784.4	475.8	384.6	367.2	354.2	343.3	341.1
75°	12945.3	10390.2	1297.1	862.6	610.5	386.8	330.3	317.2	304.2	293.3	291.2
77.5°	7659.0	6003.4	956.0	682.2	430.2	302.0	273.8	262.9	249.9	241.2	239.0
80°	2444.4	2085.9	606.2	469.3	284.6	232.5	210.8	202.1	189.0	178.2	176.0
82.5°	932.1	806.1	321.6	239.0	189.0	158.6	141.2	132.5	123.8	113.0	110.8
85°	412.8	386.8	178.2	128.2	102.1	78.2	69.5	65.2	54.3	45.6	43.5
87.5°	145.6	145.6	76.0	36.9	21.7	10.9	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)