

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: P637816

Luminaire Tested: GWS-SA4D-750-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-750-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24544.6 lumens
Efficiency: N/A
Efficacy: 151.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

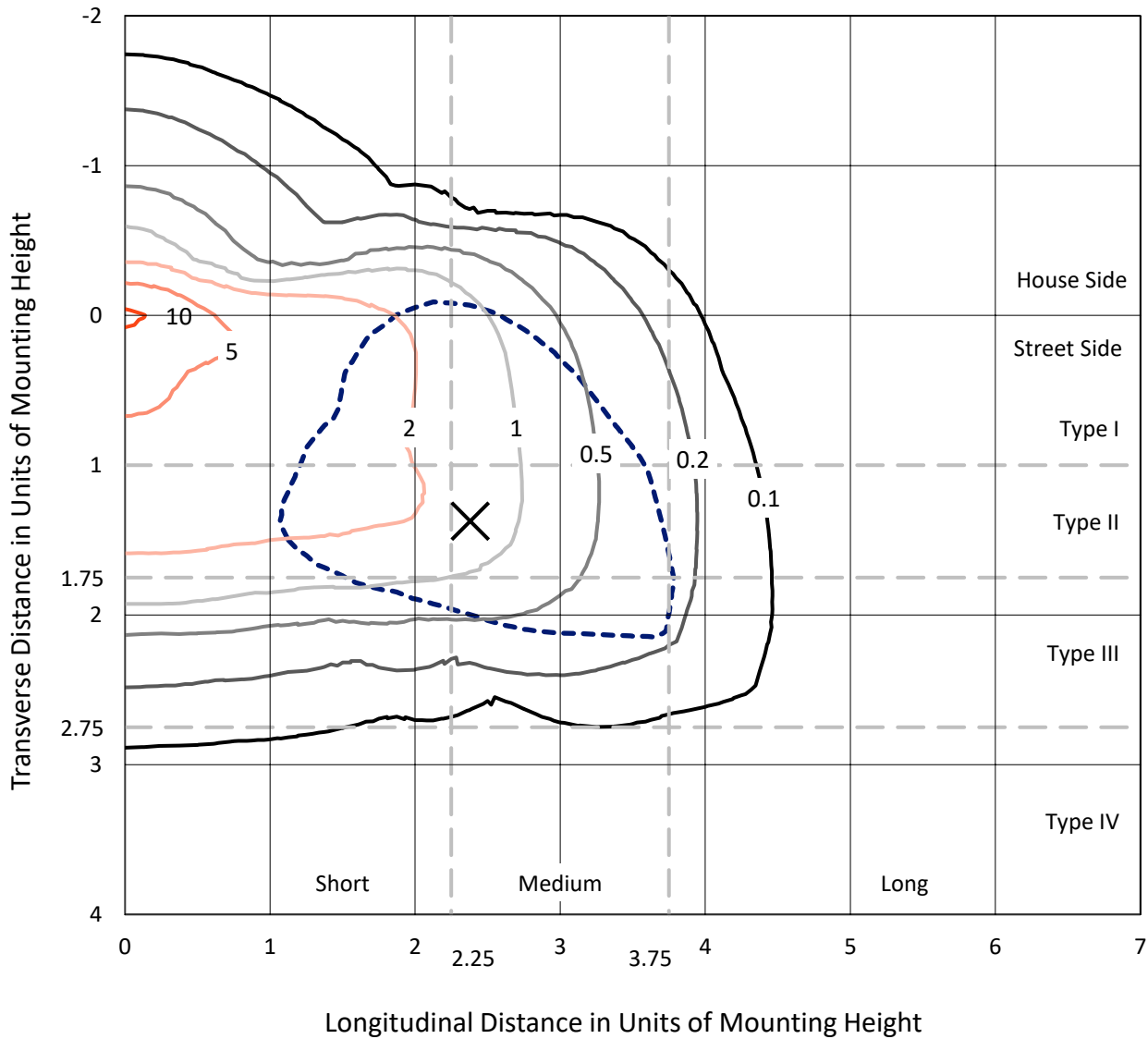
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

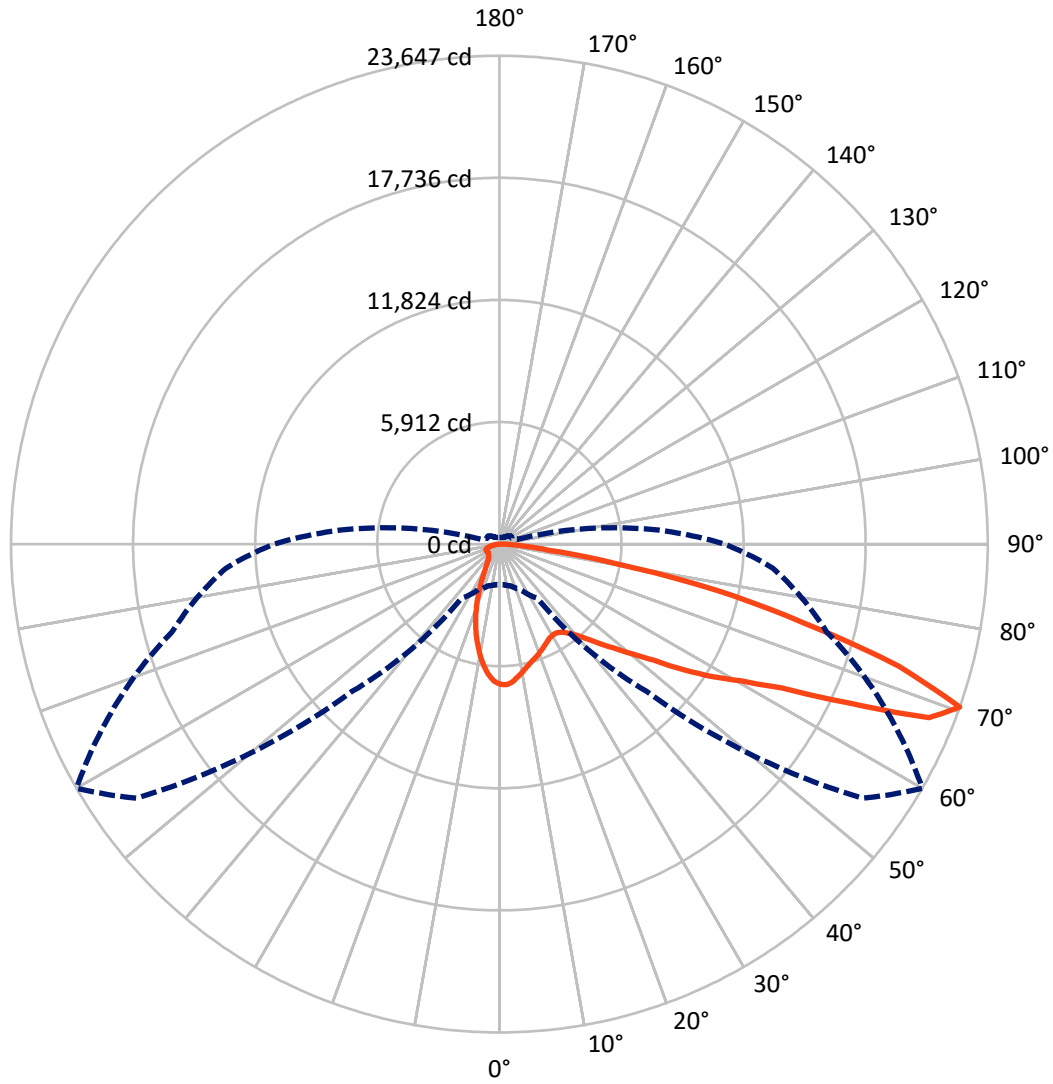
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4197.7	0.0	4197.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	20346.9	0.0	20346.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	24544.6	0.0	24544.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.4	2.4
10°-20°	1311.5	5.3
20°-30°	1679.7	6.8
30°-40°	2207.5	9.0
40°-50°	3202.7	13.0
50°-60°	4996.9	20.4
60°-70°	6542.0	26.7
70°-80°	3617.5	14.7
80°-90°	401.5	1.6
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°	24544.6	100.0
0°-180°	24544.6	100.0

Coefficient of Utilization



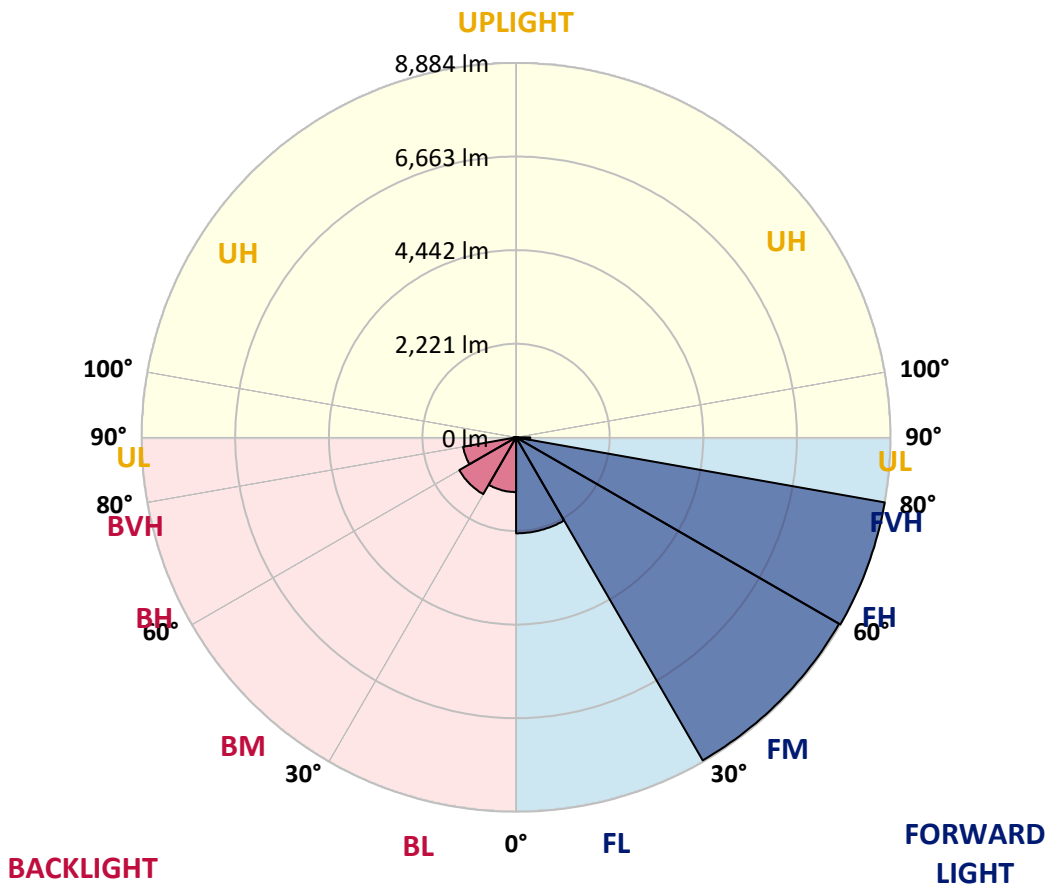
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2277.9	9.3			
FM (30°-60°)	8850.7	36.1			
FH (60°-80°)	8883.8	36.2			G4/12000
FVH (80°-90°)	334.5	1.4			G3/500
BL (0°-30°)	1298.7	5.3	B3/2500		
BM (30°-60°)	1556.4	6.3	B2/2500		
BH (60°-80°)	1275.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	66.9	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	6791.8	6791.8	6791.8	6791.8	6791.8	6791.8	6791.8	6791.8	6791.8	6791.8	6791.8
2.5°	6696.6	6703.8	6723.6	6752.3	6781.0	6795.4	6831.3	6820.5	6813.4	6799.0	6781.0
5°	6400.3	6414.7	6432.6	6488.3	6551.2	6601.5	6682.3	6691.2	6694.8	6702.0	6673.3
7.5°	6023.2	6026.8	6069.9	6143.5	6226.1	6312.3	6447.0	6484.7	6517.0	6553.0	6529.6
10°	5606.6	5615.5	5647.9	5753.8	5895.7	6023.2	6204.6	6267.4	6335.7	6414.7	6382.4
12.5°	5265.4	5267.2	5319.2	5432.4	5586.8	5759.2	5985.5	6060.9	6150.7	6274.6	6245.9
15°	4994.2	4994.2	5042.7	5139.6	5317.4	5520.4	5789.7	5886.7	6008.8	6175.8	6125.6
17.5°	4778.7	4780.5	4811.0	4913.4	5071.4	5295.9	5615.5	5746.6	5881.3	6102.2	6026.8
20°	4665.6	4656.6	4662.0	4724.8	4859.5	5076.8	5441.3	5594.0	5775.4	6051.9	5937.0
22.5°	4660.2	4644.0	4620.7	4626.0	4705.1	4884.6	5254.6	5439.6	5667.6	6010.6	5845.4
25°	4751.8	4733.8	4692.5	4645.8	4638.6	4746.4	5078.6	5288.7	5556.3	5992.7	5757.4
27.5°	4906.2	4893.6	4839.7	4769.7	4696.1	4692.5	4945.7	5164.8	5475.5	6010.6	5694.6
30°	5110.9	5089.4	5055.2	4965.5	4854.1	4739.2	4893.6	5098.3	5421.6	6068.1	5667.6
32.5°	5342.6	5330.0	5297.7	5207.9	5089.4	4906.2	4934.9	5112.7	5421.6	6168.7	5673.0
35°	5588.6	5586.8	5586.8	5527.5	5396.5	5168.4	5098.3	5234.8	5504.2	6330.3	5730.5
37.5°	5827.5	5825.7	5883.1	5904.7	5755.6	5509.6	5376.7	5479.1	5685.6	6569.1	5872.3
40°	6021.4	6028.6	6154.3	6262.0	6179.4	5951.4	5764.6	5816.7	5980.1	6908.5	6120.2
42.5°	6217.1	6236.9	6425.5	6615.8	6648.1	6450.6	6262.0	6292.6	6402.1	7357.5	6490.1
45°	6430.8	6439.8	6703.8	6969.6	7125.8	7009.1	6854.7	6896.0	6921.1	7912.4	7041.4
47.5°	6637.4	6660.7	7001.9	7366.5	7662.8	7652.0	7565.8	7553.2	7558.6	8587.6	7693.3
50°	6919.3	6953.4	7353.9	7793.9	8228.5	8427.8	8452.9	8357.8	8318.3	9338.3	8505.0
52.5°	7454.5	7454.5	7813.6	8246.4	8830.1	9323.9	9492.7	9336.5	9210.8	10132.0	9367.0
55°	8124.3	8153.0	8438.6	8788.8	9528.6	10266.7	10837.8	10665.4	10309.8	10995.8	10270.3
57.5°	8422.4	8458.3	8910.9	9455.0	10442.7	11338.8	12130.8	12069.7	11550.7	11893.7	11207.7
60°	7883.7	7959.1	8582.2	9494.5	11270.6	13068.2	13626.7	13448.9	12707.3	12836.6	12224.2
62.5°	6576.3	6658.9	7350.3	8623.5	11155.7	14937.7	15984.6	15329.2	14151.1	14027.2	13578.2
65°	3923.9	3920.3	4751.8	6439.8	9738.8	15456.7	19716.4	18493.4	16381.5	15661.4	14971.8
67.5°	2494.4	2489.0	2663.2	3412.1	6481.1	14185.2	22115.6	22433.4	19411.1	16862.8	15086.7
70°	1968.2	1966.4	2092.1	2433.3	3205.5	10094.3	21447.5	23647.4	21241.0	16404.9	13283.7
72.5°	1434.9	1438.5	1632.4	2038.3	2472.9	5067.8	17367.4	20233.6	19536.8	14481.5	10783.9
75°	1030.8	1036.2	1152.9	1560.6	2280.7	2771.0	11548.9	15214.2	14864.0	11608.2	7418.6
77.5°	655.5	662.7	765.0	1093.7	1842.5	2237.6	7001.9	10740.8	9889.6	6540.4	2638.1
80°	400.5	423.8	510.0	815.3	1472.6	1679.1	3500.1	5658.6	4952.9	1794.0	887.1
82.5°	206.5	224.5	307.1	504.6	1014.6	1474.4	1980.8	2377.7	1533.6	750.7	472.3
85°	64.6	75.4	107.7	204.7	483.1	914.1	1311.0	1181.7	704.0	353.8	219.1
87.5°	16.2	16.2	18.0	18.0	19.8	41.3	253.2	267.6	186.8	111.3	89.8
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°	6791.8	6791.8	6791.8	6791.8	6791.8	6791.8	6791.8	6791.8	6791.8	6791.8	6791.8
2.5°	6745.1	6702.0	6684.1	6682.3	6637.4	6572.7	6529.6	6499.1	6481.1	6477.5	6477.5
5°	6624.8	6569.1	6495.5	6439.8	6319.5	6197.4	6095.0	6037.6	5971.1	5962.1	5960.3
7.5°	6465.0	6384.2	6244.1	6087.8	5877.7	5674.8	5502.4	5385.7	5268.9	5247.4	5240.2
10°	6292.6	6183.0	5944.2	5669.4	5355.1	5051.7	4787.7	4581.1	4444.7	4347.7	4329.7
12.5°	6122.0	5976.5	5626.3	5216.9	4785.9	4371.0	3974.2	3636.5	3392.3	3250.4	3225.3
15°	5962.1	5759.2	5279.7	4757.1	4196.8	3629.4	3067.3	2629.1	2286.1	2164.0	2135.2
17.5°	5816.7	5563.5	4943.9	4281.2	3582.7	2841.0	2201.7	1812.0	1610.9	1549.8	1535.4
20°	5671.2	5362.3	4602.7	3780.2	2930.8	2099.3	1609.1	1425.9	1350.5	1327.1	1319.9
22.5°	5515.0	5141.4	4231.0	3286.4	2271.7	1571.3	1316.3	1235.5	1212.2	1214.0	1212.2
25°	5358.7	4917.0	3841.3	2749.4	1691.7	1275.0	1149.3	1118.8	1124.2	1140.3	1143.9
27.5°	5229.4	4717.6	3458.8	2160.4	1321.7	1097.2	1038.0	1036.2	1055.9	1077.5	1081.1
30°	5136.1	4539.8	3081.6	1661.1	1088.3	975.1	951.8	962.6	985.9	1002.1	1007.5
32.5°	5069.6	4387.2	2679.4	1305.6	953.6	888.9	878.2	888.9	903.3	919.5	923.1
35°	5046.3	4275.9	2284.3	1064.9	862.0	826.1	818.9	824.3	831.5	840.4	844.0
37.5°	5098.3	4220.2	1871.2	926.6	806.3	784.8	774.0	770.4	772.2	775.8	777.6
40°	5252.8	4245.3	1533.6	845.8	770.4	750.7	732.7	725.5	723.7	727.3	725.5
42.5°	5518.6	4351.3	1289.4	799.1	741.7	712.9	693.2	686.0	686.0	695.0	695.0
45°	5908.3	4559.6	1113.4	765.0	716.5	680.6	659.1	655.5	662.7	677.0	678.8
47.5°	6479.3	4864.9	1007.5	739.9	693.2	651.9	630.3	628.5	642.9	666.3	668.0
50°	7156.4	5304.9	950.0	721.9	677.0	628.5	607.0	608.8	624.9	650.1	655.5
52.5°	7971.7	5904.7	953.6	714.7	668.0	614.2	592.6	589.0	605.2	630.3	635.7
55°	8813.9	6633.8	1023.6	716.5	655.5	607.0	578.3	565.7	580.1	598.0	599.8
57.5°	9740.6	7456.3	1197.8	712.9	639.3	599.8	565.7	537.0	545.9	556.7	562.1
60°	10785.7	8424.2	1573.1	720.1	632.1	583.6	540.5	502.8	501.0	508.2	510.0
62.5°	12182.9	9740.6	1995.2	732.7	648.3	563.9	502.8	463.3	456.1	459.7	461.5
65°	13251.4	10369.1	1862.3	721.9	682.4	549.5	466.9	425.6	411.2	407.7	407.7
67.5°	12816.8	9537.6	1296.6	693.2	698.6	551.3	438.2	386.1	368.1	359.2	357.4
70°	10906.0	7747.2	901.5	664.5	680.6	547.7	407.7	353.8	330.4	317.9	316.1
72.5°	8616.4	5915.4	729.1	607.0	617.8	493.9	362.8	317.9	298.1	281.9	281.9
75°	5545.5	3609.6	608.8	540.5	504.6	384.3	314.3	283.7	264.0	247.8	247.8
77.5°	1865.9	1339.7	472.3	457.9	377.1	289.1	264.0	244.2	228.1	213.7	211.9
80°	757.8	635.7	346.6	346.6	264.0	220.9	206.5	197.5	186.8	168.8	168.8
82.5°	440.0	386.1	242.4	210.1	176.0	152.6	143.7	134.7	134.7	122.1	122.1
85°	211.9	213.7	145.5	129.3	100.6	88.0	84.4	79.0	77.2	70.0	68.2
87.5°	114.9	116.7	73.6	57.5	39.5	34.1	28.7	26.9	25.1	23.3	23.3
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)