

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: P643422

Luminaire Tested: GWS-SA6E-830-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643422
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-SAGE-830-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34944.8 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

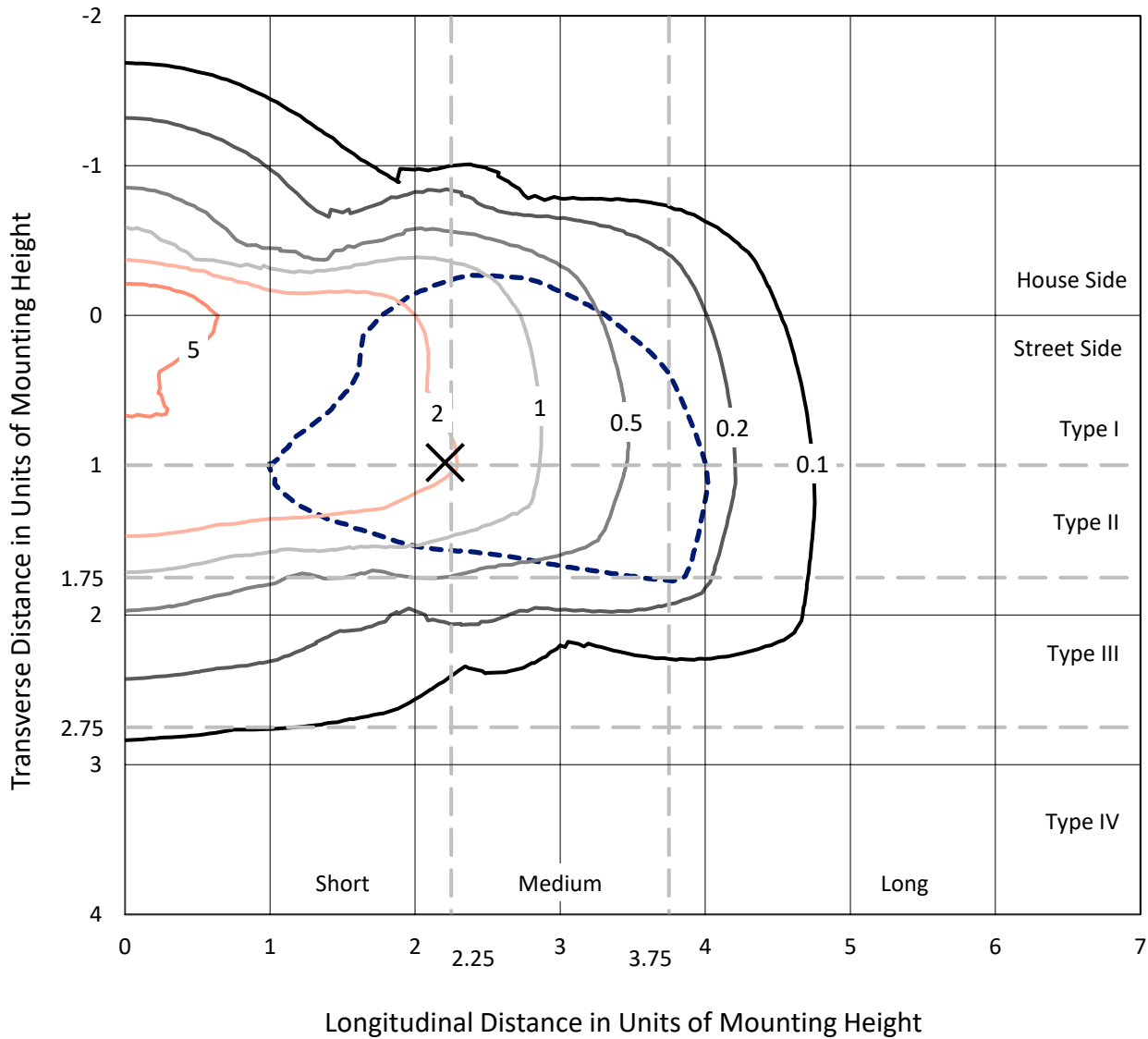
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

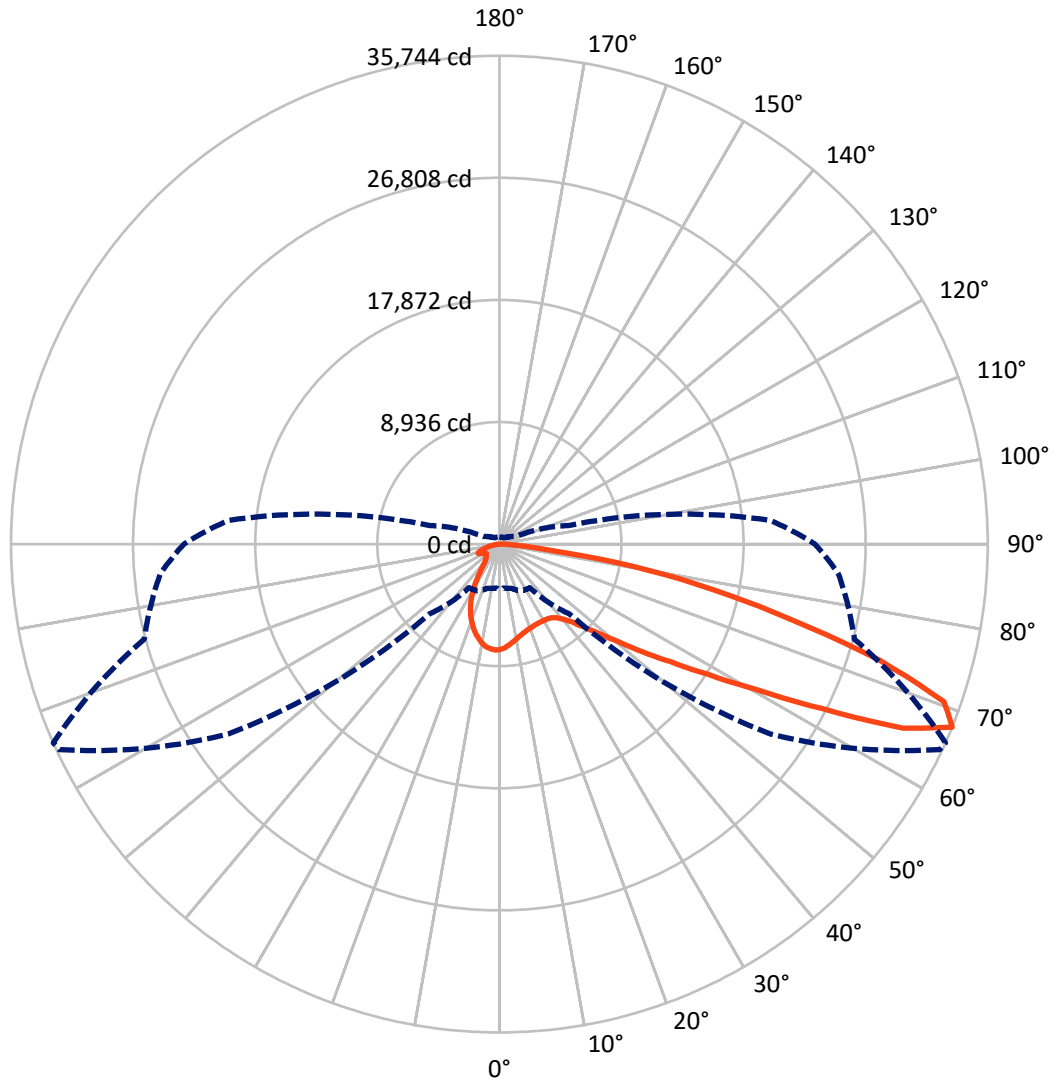
✕ Max cd
 - - - 1/2 Max cd



Based on 30 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	7091.1	0.0	7091.1
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	27853.7	0.0	27853.7
	% Fixture	79.7	0.0	79.7
Total	Lumens	34944.8	0.0	34944.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.7	1.9
10°-20°	1665.5	4.8
20°-30°	2289.3	6.6
30°-40°	3129.8	9.0
40°-50°	4742.5	13.6
50°-60°	7372.3	21.1
60°-70°	8975.7	25.7
70°-80°	5467.5	15.6
80°-90°	624.5	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°	34944.8	100.0
0°-180°	34944.8	100.0

Coefficient of Utilization



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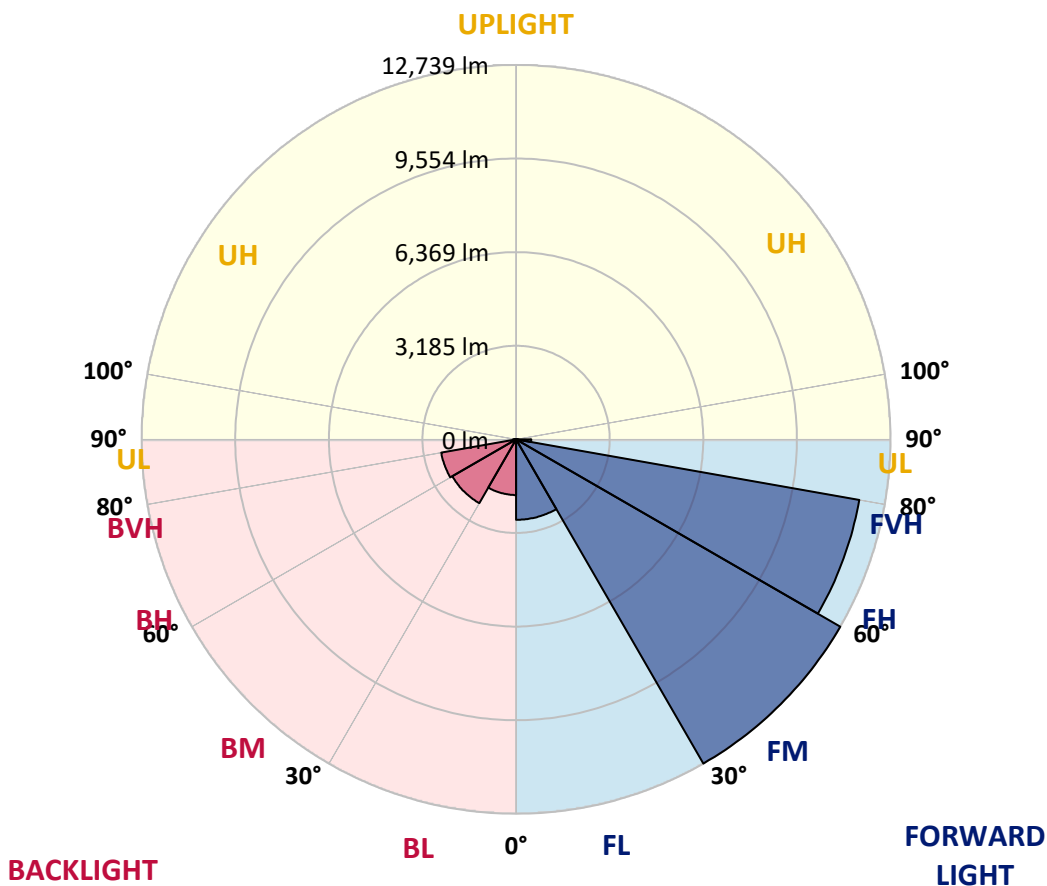
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2738.1	7.8			
FM (30°-60°)	12738.7	36.5			
FH (60°-80°)	11857.7	33.9			G4/12000
FVH (80°-90°)	519.2	1.5			G4/750
BL (0°-30°)	1894.4	5.4	B3/2500		
BM (30°-60°)	2505.9	7.2	B3/5000		
BH (60°-80°)	2585.5	7.4	B4/5000		G4/5000
BVH (80°-90°)	105.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7721.8	7721.8	7721.8	7721.8	7721.8	7721.8	7721.8	7721.8	7721.8	7721.8	7721.8
2.5°	7232.3	7257.8	7242.5	7339.4	7344.5	7466.9	7535.7	7594.3	7599.4	7675.9	7726.9
5°	6737.8	6753.1	6753.1	6844.9	6906.0	7069.2	7227.2	7395.5	7408.2	7591.8	7732.0
7.5°	6337.5	6352.8	6342.6	6465.0	6544.0	6725.0	6926.4	7183.9	7209.4	7505.1	7749.9
10°	6024.0	6018.9	6044.4	6156.5	6258.5	6475.2	6699.5	6992.7	7031.0	7405.7	7770.2
12.5°	5809.8	5814.9	5830.2	5947.5	6057.1	6271.3	6503.2	6821.9	6862.7	7291.0	7760.0
15°	5707.9	5697.7	5710.4	5817.5	5922.0	6110.7	6350.3	6679.1	6719.9	7189.0	7762.6
17.5°	5684.9	5677.3	5674.7	5751.2	5830.2	6006.1	6235.6	6569.5	6612.9	7122.7	7777.9
20°	5756.3	5746.1	5718.1	5751.2	5784.3	5932.2	6154.0	6490.5	6538.9	7079.4	7808.5
22.5°	5952.6	5934.8	5891.4	5850.6	5807.3	5896.5	6103.0	6431.9	6480.3	7051.3	7839.1
25°	6250.9	6235.6	6189.7	6097.9	5939.9	5924.6	6092.8	6406.4	6454.8	7031.0	7851.8
27.5°	6661.3	6638.4	6592.5	6459.9	6202.4	6029.1	6131.0	6403.8	6449.7	7008.0	7839.1
30°	7148.2	7132.9	7107.4	6946.8	6602.7	6250.9	6217.7	6424.2	6459.9	6995.3	7813.6
32.5°	7642.8	7627.5	7647.9	7571.4	7148.2	6618.0	6406.4	6480.3	6505.8	6992.7	7790.6
35°	8078.7	8096.6	8244.4	8257.2	7841.6	7115.1	6704.6	6610.3	6615.4	7043.7	7800.8
37.5°	8535.0	8603.9	8797.6	8963.3	8616.6	7772.8	7148.2	6855.0	6850.0	7173.7	7864.6
40°	9139.2	9169.8	9417.1	9728.1	9511.4	8675.2	7777.9	7255.3	7219.6	7438.8	8035.4
42.5°	9728.1	9802.0	10197.2	10554.1	10482.7	9692.4	8570.7	7854.4	7790.6	7907.9	8387.2
45°	10477.6	10549.0	10992.6	11451.4	11581.4	10842.1	9585.3	8705.8	8642.1	8614.1	9032.1
47.5°	11227.1	11301.0	11698.7	12361.5	12817.8	12279.9	10905.9	9830.1	9725.6	9615.9	10006.0
50°	11731.8	11818.5	12198.4	12993.7	14064.4	14074.6	12471.1	11303.6	11171.0	10997.7	11377.5
52.5°	11714.0	11770.1	12132.1	13049.8	14961.8	16137.0	14566.7	13179.8	13072.8	12695.5	13026.9
55°	10793.7	10877.8	11242.4	12389.6	15058.7	18092.3	17646.2	15392.6	15201.4	14525.9	14890.4
57.5°	8945.5	9016.8	9383.9	10798.8	14199.6	19094.2	21556.8	18212.1	17949.6	16519.4	16940.1
60°	6753.1	6666.4	6839.8	8078.7	12144.8	19119.7	25008.6	22036.1	21597.6	18650.6	19002.4
62.5°	5068.0	4981.3	5019.6	5368.8	8234.2	17574.8	26976.6	27267.2	26543.2	21057.2	20988.3
65°	4004.9	3956.5	4066.1	4305.8	4800.3	13383.8	26991.9	32924.1	32467.8	23846.1	23025.2
67.5°	3263.1	3232.5	3344.7	3788.2	3892.8	7191.6	24203.0	35565.2	35743.6	26900.1	24914.2
70°	2628.3	2582.4	2758.3	3342.1	3620.0	4351.6	17337.7	34219.2	34507.2	28720.3	24381.4
72.5°	1815.1	1817.6	1906.9	2707.3	3495.1	3757.7	9807.1	28493.4	29118.0	27070.9	21434.5
75°	1223.7	1233.9	1259.4	1787.1	3219.8	3645.5	5226.1	21572.1	22013.1	22375.1	17717.6
77.5°	739.3	744.4	803.0	1080.9	2220.4	3403.3	3541.0	15637.4	15984.1	14750.2	10982.4
80°	428.3	446.1	499.7	724.0	1499.0	2556.9	2740.5	9587.9	9980.5	6556.8	3490.0
82.5°	188.6	201.4	272.8	420.6	874.4	2174.5	2138.9	3788.2	3732.2	1827.8	1210.9
85°	33.1	40.8	58.6	132.6	321.2	1147.2	1659.6	1672.3	1572.9	693.4	502.2
87.5°	0.0	0.0	0.0	0.0	0.0	7.6	249.8	448.7	446.1	196.3	173.4
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°	7721.8	7721.8	7721.8	7721.8	7721.8	7721.8	7721.8	7721.8	7721.8	7721.8	7721.8
2.5°	7760.0	7691.2	7752.4	7760.0	7747.3	7737.1	7660.6	7594.3	7586.7	7515.3	7515.3
5°	7788.1	7724.4	7754.9	7696.3	7604.5	7510.2	7347.1	7234.9	7183.9	7092.1	7092.1
7.5°	7826.3	7760.0	7724.4	7579.0	7364.9	7158.4	6895.8	6676.6	6587.4	6457.4	6452.3
10°	7862.0	7777.9	7655.5	7372.6	7031.0	6702.1	6319.7	6008.7	5797.1	5641.6	5641.6
12.5°	7859.5	7749.9	7507.7	7089.6	6618.0	6141.2	5631.4	5162.3	4881.9	4639.7	4624.4
15°	7854.4	7704.0	7319.0	6760.7	6136.1	5475.9	4782.5	4170.6	3755.1	3518.0	3497.6
17.5°	7849.3	7645.3	7107.4	6386.0	5549.8	4649.9	3734.7	3071.9	2725.2	2579.9	2585.0
20°	7849.3	7579.0	6880.5	5955.1	4874.2	3660.8	2740.5	2258.7	2172.0	2179.6	2187.3
22.5°	7826.3	7497.5	6628.2	5486.1	4122.2	2692.1	2021.6	1858.4	1904.3	1975.7	1985.9
25°	7772.8	7362.4	6335.0	4966.0	3227.4	1960.4	1649.4	1618.8	1702.9	1792.2	1817.6
27.5°	7688.7	7206.9	6006.1	4356.7	2375.9	1575.5	1450.5	1448.0	1514.3	1580.6	1603.5
30°	7599.4	7033.5	5659.4	3678.6	1720.8	1371.5	1323.1	1323.1	1356.2	1397.0	1391.9
32.5°	7494.9	6857.6	5287.2	2972.5	1402.1	1256.8	1241.5	1233.9	1239.0	1254.3	1254.3
35°	7405.7	6702.1	4904.8	2225.5	1256.8	1193.1	1177.8	1159.9	1152.3	1142.1	1147.2
37.5°	7372.6	6579.7	4509.7	1677.4	1185.4	1147.2	1121.7	1096.2	1078.4	1073.3	1070.7
40°	7426.1	6528.7	4114.6	1381.7	1134.4	1098.7	1070.7	1037.6	1022.3	1022.3	1022.3
42.5°	7635.1	6567.0	3711.8	1249.2	1098.7	1058.0	1017.2	986.6	981.5	986.6	989.1
45°	8017.5	6714.8	3293.7	1182.9	1068.2	1017.2	968.7	945.8	945.8	950.9	950.9
47.5°	8700.7	7102.3	2880.7	1142.1	1037.6	984.0	933.0	910.1	907.5	912.6	912.6
50°	9883.6	7800.8	2508.5	1114.0	1014.6	958.5	907.5	877.0	869.3	866.8	866.8
52.5°	11374.9	9011.8	2271.4	1093.6	986.6	930.5	879.5	838.7	823.4	815.8	815.8
55°	13177.3	10625.5	2271.4	1078.4	950.9	897.4	838.7	797.9	775.0	764.8	764.8
57.5°	15219.3	12504.3	2664.0	1065.6	922.8	859.1	795.4	754.6	729.1	713.8	713.8
60°	17297.0	14490.2	3635.3	1047.8	897.4	810.7	746.9	708.7	675.6	657.7	655.2
62.5°	19451.1	16677.5	4915.0	1058.0	879.5	764.8	696.0	652.6	624.6	606.7	604.2
65°	21424.3	18760.2	6034.2	1137.0	882.1	724.0	637.3	599.1	576.1	553.2	550.6
67.5°	23099.1	19910.0	5249.0	1297.6	935.6	675.6	578.7	540.5	520.1	504.8	502.2
70°	21926.5	18156.1	2977.6	1397.0	1009.5	624.6	512.4	486.9	466.5	456.3	453.8
72.5°	18750.1	15372.2	1991.0	1233.9	920.3	558.3	451.2	430.8	415.5	402.8	400.2
75°	15188.7	12190.7	1521.9	1012.1	716.4	453.8	387.5	372.2	356.9	344.2	341.6
77.5°	8986.3	7043.7	1121.7	800.5	504.8	354.4	321.2	308.5	293.2	283.0	280.4
80°	2868.0	2447.3	711.3	550.6	334.0	272.8	247.3	237.1	221.8	209.0	206.5
82.5°	1093.6	945.8	377.3	280.4	221.8	186.1	165.7	155.5	145.3	132.6	130.0
85°	484.4	453.8	209.0	150.4	119.8	91.8	81.6	76.5	63.7	53.5	51.0
87.5°	170.8	170.8	89.2	43.3	25.5	12.7	7.6	2.5	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)