

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: P635305

Luminaire Tested: GWS-SA3D-740-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635305  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3D-740-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

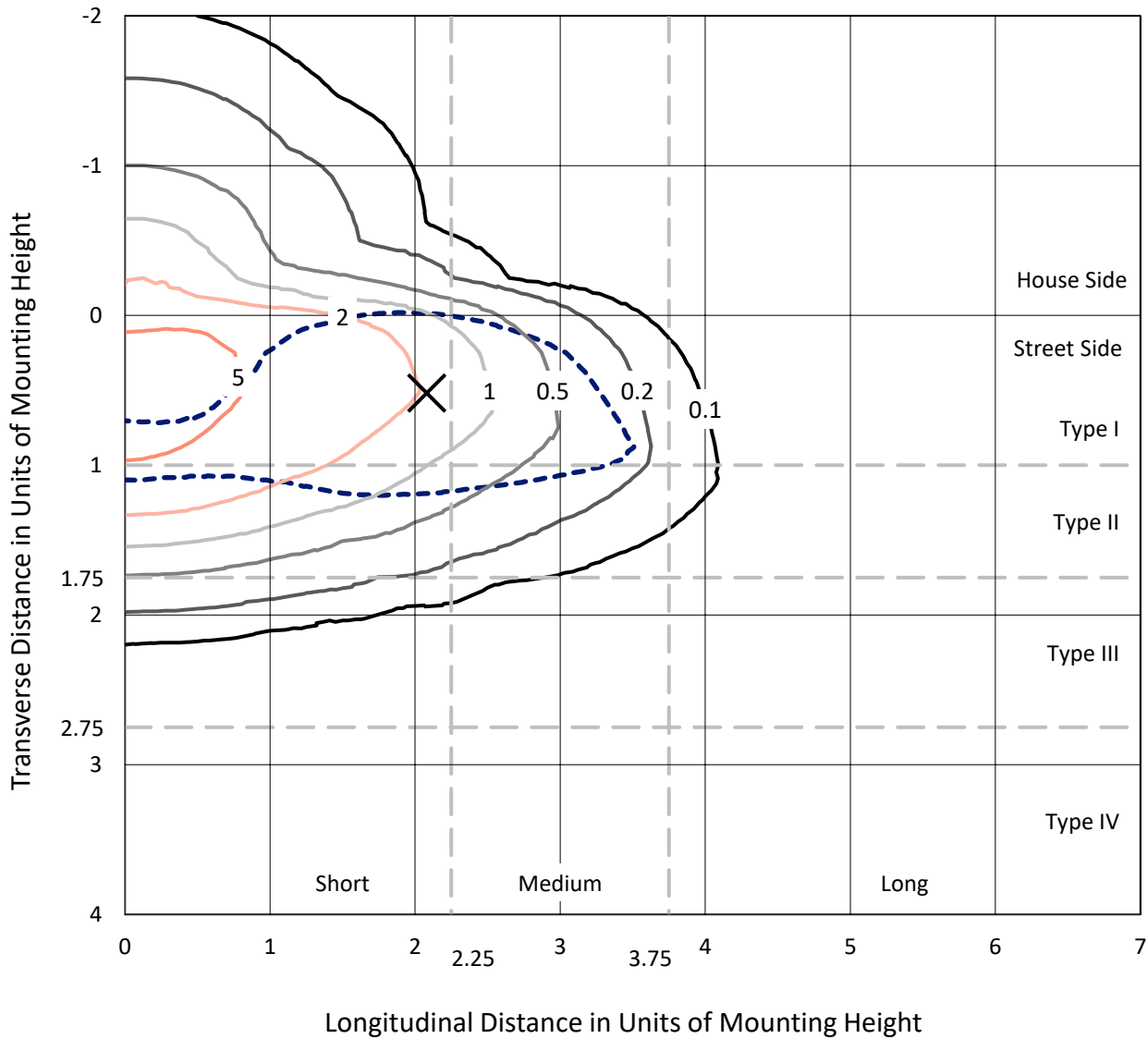
Lumens per Lamp: N/A  
Luminaire Lumens: 17944.4 lumens  
Efficiency: N/A  
Efficacy: 148.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 120.8  
Input Voltage (V): 120  
Input Current (Ain): 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

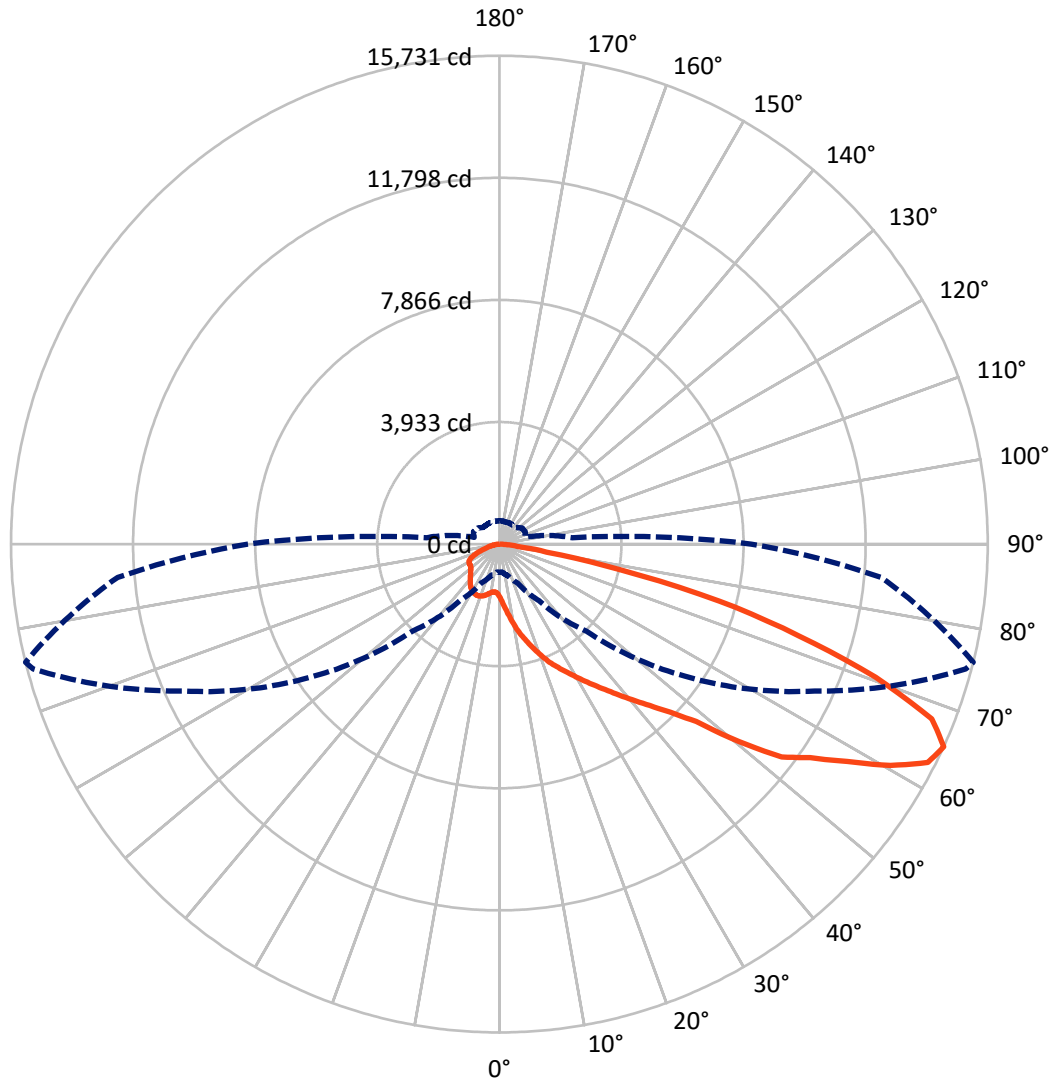
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2999.4	0.0	2999.4
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	14945.0	0.0	14945.0
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	17944.4	0.0	17944.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.9	1.1
10°-20°	768.9	4.3
20°-30°	1498.6	8.4
30°-40°	2506.3	14.0
40°-50°	3588.5	20.0
50°-60°	4248.3	23.7
60°-70°	3532.5	19.7
70°-80°	1445.6	8.1
80°-90°	153.9	0.9
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°	17944.4	100.0
0°-180°	17944.4	100.0

**Coefficient of Utilization**



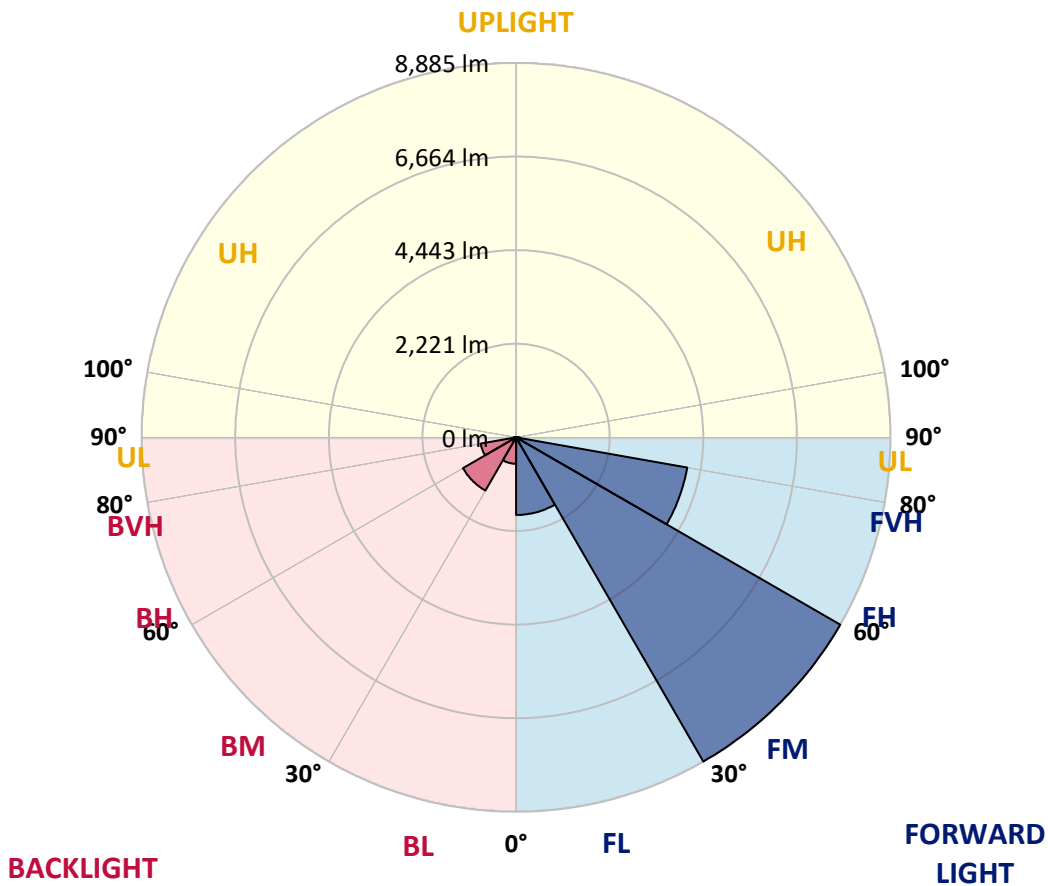
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1841.9	10.3			
FM (30°-60°)	8885.4	49.5			
FH (60°-80°)	4125.9	23.0			G2/5000
FVH (80°-90°)	91.8	0.5			G1/100
BL (0°-30°)	627.5	3.5	B2/1000		
BM (30°-60°)	1457.7	8.1	B2/2500		
BH (60°-80°)	852.2	4.7	B2/1000		G2/1000
BVH (80°-90°)	62.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1699.3	1699.3	1699.3	1699.3	1699.3	1699.3	1699.3	1699.3	1699.3	1699.3	1699.3
2.5°	2381.8	2390.6	2361.6	2351.5	2283.4	2191.3	2114.3	1998.2	1891.0	1874.6	1778.7
5°	3025.1	2987.3	2954.5	2933.0	2838.4	2733.7	2571.0	2352.7	2124.4	2096.6	1889.8
7.5°	3407.4	3401.1	3360.7	3348.1	3274.9	3170.2	3002.4	2731.2	2399.4	2354.0	2039.9
10°	3713.9	3710.1	3689.9	3701.3	3634.4	3532.3	3369.5	3089.5	2700.9	2655.5	2207.7
12.5°	3981.4	3987.7	3983.9	4025.5	3991.5	3912.0	3742.9	3435.1	3002.4	2953.2	2412.0
15°	4176.9	4181.9	4200.9	4291.7	4310.6	4294.2	4122.6	3774.5	3300.1	3229.5	2622.7
17.5°	4232.4	4242.5	4287.9	4434.2	4536.4	4604.6	4477.1	4120.1	3592.8	3515.9	2837.2
20°	4306.8	4318.2	4363.6	4516.2	4666.4	4821.5	4798.8	4470.8	3888.0	3824.9	3054.1
22.5°	4651.2	4642.4	4622.2	4695.4	4802.6	4995.6	5052.4	4807.7	4193.3	4132.7	3293.8
25°	5314.8	5298.4	5169.7	5102.9	5067.5	5184.8	5285.8	5114.2	4491.0	4400.2	3517.1
27.5°	6046.5	6037.6	5873.6	5714.7	5497.7	5447.2	5506.5	5381.6	4779.9	4687.8	3711.4
30°	6739.0	6712.6	6541.0	6341.7	6051.5	5834.5	5747.5	5644.0	5096.5	5000.7	3938.5
32.5°	7358.5	7324.4	7122.5	6901.8	6597.8	6341.7	6081.8	5922.8	5454.8	5343.8	4170.6
35°	7866.8	7832.8	7625.9	7391.2	7056.9	6867.7	6512.0	6225.6	5819.4	5707.1	4444.3
37.5°	8260.4	8228.9	8013.2	7782.3	7490.9	7340.8	7031.7	6566.2	6239.5	6122.2	4734.5
40°	8481.2	8458.5	8285.7	8102.7	7858.0	7728.1	7589.3	6996.4	6710.0	6592.7	5076.4
42.5°	8548.1	8532.9	8411.8	8317.2	8151.9	8053.5	8133.0	7502.3	7212.1	7109.9	5461.1
45°	8380.3	8380.3	8345.0	8392.9	8400.5	8399.2	8678.0	8073.7	7829.0	7716.7	6003.6
47.5°	7951.4	7979.1	8030.8	8266.7	8515.3	8723.4	9315.1	8835.7	8622.5	8530.4	6771.8
50°	7166.7	7242.4	7419.0	7879.5	8408.0	8937.9	9918.1	9962.2	10165.3	10002.6	7902.2
52.5°	6017.5	6006.1	6456.5	7112.5	7918.6	8946.7	10249.9	10956.3	11502.5	11390.3	8742.3
55°	4782.4	4763.5	5183.6	6088.1	7168.0	8608.6	10449.2	11411.7	12244.3	12143.4	9498.0
57.5°	3662.2	3638.2	4011.6	4827.8	6108.3	7890.8	10411.3	11954.2	13264.9	13213.2	10524.9
60°	2520.5	2491.5	2840.9	3555.0	4854.3	6793.3	9992.5	12233.0	14459.5	14477.2	11623.7
62.5°	1513.8	1497.4	1751.0	2304.8	3491.9	5433.4	9012.3	12063.9	15410.7	15490.2	12330.1
65°	913.3	902.0	1050.8	1375.1	2215.2	3965.0	7501.0	11199.8	15548.2	15731.2	12346.5
67.5°	664.8	666.1	709.0	837.6	1291.8	2560.9	5628.9	9650.6	14831.7	15020.9	11568.1
70°	577.8	580.3	603.0	632.0	780.9	1465.9	3659.7	7618.3	12713.6	12859.9	9702.4
72.5°	513.4	513.4	528.6	543.7	610.6	893.2	1960.4	5324.9	10034.1	10073.2	7405.1
75°	451.6	447.8	455.4	463.0	529.8	624.5	953.7	3710.1	7411.4	7320.6	4786.2
77.5°	359.5	355.7	357.0	364.6	425.1	446.6	483.2	2317.4	4176.9	3942.3	2114.3
80°	256.1	253.6	267.4	286.4	314.1	273.7	302.8	1121.5	1656.4	1541.6	820.0
82.5°	152.6	157.7	179.1	194.3	217.0	171.6	195.5	374.7	586.6	571.5	333.0
85°	21.4	22.7	64.3	74.4	93.4	66.9	103.4	169.0	234.6	251.0	117.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.8	30.3	66.9	68.1	29.0
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°	1699.3	1699.3	1699.3	1699.3	1699.3	1699.3	1699.3	1699.3	1699.3	1699.3	1699.3
2.5°	1729.5	1670.3	1585.7	1515.1	1455.8	1407.9	1367.5	1337.2	1328.4	1315.8	1315.8
5°	1792.6	1685.4	1534.0	1426.8	1365.0	1328.4	1303.2	1290.5	1284.2	1276.7	1272.9
7.5°	1879.7	1729.5	1525.2	1416.7	1368.7	1346.0	1329.6	1322.1	1317.0	1309.5	1309.5
10°	1999.5	1795.1	1552.9	1452.0	1414.2	1391.5	1372.5	1359.9	1348.6	1337.2	1334.7
12.5°	2129.4	1880.9	1603.4	1499.9	1459.6	1431.8	1405.3	1386.4	1372.5	1358.7	1354.9
15°	2273.3	1969.2	1657.6	1546.6	1496.2	1458.3	1426.8	1397.8	1378.8	1358.7	1356.1
17.5°	2414.6	2058.8	1703.1	1578.2	1513.8	1467.1	1421.7	1383.9	1359.9	1337.2	1330.9
20°	2583.6	2148.4	1734.6	1587.0	1510.0	1448.2	1394.0	1346.0	1319.6	1293.1	1289.3
22.5°	2738.8	2231.6	1749.7	1574.4	1481.0	1407.9	1344.8	1293.1	1264.0	1237.6	1232.5
25°	2888.9	2304.8	1743.4	1544.1	1436.9	1352.4	1286.8	1235.0	1207.3	1179.5	1172.0
27.5°	3034.0	2354.0	1718.2	1497.4	1381.4	1290.5	1227.5	1180.8	1156.8	1132.8	1122.8
30°	3176.5	2399.4	1679.1	1436.9	1310.7	1226.2	1174.5	1141.7	1117.7	1092.5	1084.9
32.5°	3320.3	2432.2	1619.8	1366.2	1238.8	1169.4	1137.9	1113.9	1088.7	1063.5	1055.9
35°	3465.4	2446.1	1547.9	1285.5	1178.3	1132.8	1121.5	1093.7	1059.7	1029.4	1019.3
37.5°	3638.2	2458.7	1458.3	1206.0	1125.3	1115.2	1112.7	1071.0	1030.7	989.0	977.7
40°	3846.4	2475.1	1366.2	1134.1	1082.4	1108.9	1098.8	1042.0	961.3	920.9	908.3
42.5°	4101.2	2505.4	1270.4	1068.5	1050.8	1084.9	1073.6	971.4	917.1	894.4	888.1
45°	4475.9	2616.4	1174.5	1016.8	1026.9	1050.8	1033.2	929.7	908.3	893.2	885.6
47.5°	5143.2	2786.7	1091.2	977.7	1008.0	1020.6	952.4	918.4	902.0	881.8	873.0
50°	5837.1	2861.1	1024.4	953.7	986.5	992.8	908.3	903.2	891.9	870.4	861.6
52.5°	6306.3	2851.0	984.0	944.9	968.8	944.9	888.1	886.8	879.3	854.0	844.0
55°	6836.2	2868.7	966.3	947.4	961.3	864.1	862.9	866.7	862.9	835.1	830.1
57.5°	7551.5	2922.9	957.5	956.2	956.2	825.0	838.9	844.0	836.4	823.8	820.0
60°	8239.0	2926.7	941.1	966.3	952.4	801.1	811.2	816.2	807.4	804.9	803.6
62.5°	8497.6	2745.1	904.5	958.8	937.3	774.6	782.1	784.7	775.8	782.1	780.9
65°	8112.8	2359.0	844.0	922.2	890.6	750.6	745.6	751.9	736.7	753.1	754.4
67.5°	7203.3	1874.6	751.9	852.8	825.0	724.1	714.0	714.0	688.8	714.0	712.8
70°	5808.0	1324.6	616.9	741.8	753.1	692.6	687.5	658.5	618.1	656.0	652.2
72.5°	4402.7	951.2	485.7	586.6	648.4	648.4	649.7	600.5	553.8	571.5	556.3
75°	2789.2	669.9	388.5	449.1	508.4	568.9	598.0	507.1	465.5	457.9	450.4
77.5°	1256.5	440.3	302.8	344.4	360.8	449.1	546.2	436.5	379.7	363.3	358.3
80°	526.1	273.7	215.7	243.5	222.0	377.2	481.9	339.3	278.8	256.1	239.7
82.5°	230.9	162.7	137.5	131.2	138.8	280.1	359.5	225.8	174.1	235.9	238.4
85°	97.1	85.8	70.6	64.3	56.8	107.2	169.0	88.3	108.5	61.8	50.5
87.5°	22.7	25.2	18.9	12.6	7.6	1.3	0.0	0.0	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)